



CHA Monoblock
07 and 10 kW

WOLF Heating systems

Price list

valid from 01 December 2021

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WOLF Serviceteam

We will help you with all your questions about heating and ventilation systems.

Call us or write us an email.

Service number for the end user

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WOLF tools and digital services facilitate every project planning

With our digital service offerings professional support at all times. And that in the office and on site with your customers. For example, you can use the WOLF Solar Configurator to make the right recommendation for single-family homes and apartment buildings in just a few steps. Or you can quickly and easily have the right ErP system label at hand. In addition: Check or manage your WOLF heating systems in the WOLF Smartset portal.

Everything in one place!



Test our tools right here!



WOLF

Heating systems price list

BOILER

Gas heaters

Flue gas systems

Solar

Heat Pump

Home Station

Storage systems

Domestic ventilation

Service

The prices quoted are ex works Mainburg, excluding packaging and value added tax. They are based on our terms and conditions of sale and delivery. We reserve the right to make changes.

The illustrations correspond approximately to the actual designs of the articles. This illustration is mainly for faster and better search and identification of the required product.

Condensing boiler

Oil condensing boiler

Gas condensing boiler

2-Stage

Modulating



COB-2
15-40KW
Page 03



TOB
18KW
Page 02



TGB-2
20-40KW
Page 04



MGK-2
130-300KW
Page 05



MGK-2
390-1000KW
Page 06-07

Gas heaters

Gas condensing boilers

Gas condensing boilers

Gas condensing boilers



CGB-2
CGB-2K
14-24KW
Page 52



CGB-2
38-55KW
Page 57



CGB-2
75-100KW
Page 54



CGS-2L/R
14-24KW
Page 58



CGW-2
14-24KW
Page 53



CSZ-2
14-24KW
Page 56



CGU-2K
10-24KW
Page 64

Solar collectors

Flat plate collectors

Tube collectors

Meander

Harp



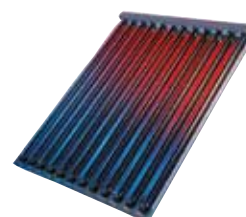
F3-1Q
Page 188



F3-1
Page 188







CFK-1
Page 188








CRK-12
Page 206

Heat pumps





Monoblock		Monoblock	
Air / Water		Air / Water	
07 - 10 kW	07 - 10 kW	07 - 10 kW	08 - 14 kW

			
CHA	CHC-Monoblock	CHT-Monoblock	BWL-1-I
Page 220	Page 226	Page 222	Page 240

Split		Monoblock		
Air / Water		Sole / Wasser	Water / Water	Hot Water
05 - 16 kW	05 - 16 kW	06 - 16 kW	07 - 21 kW	1,9 kW

				
BWL-1S BWL-1SB	CHC-Split	BWS-1	BWW-1	SWP SWP-B
Page 228	Page 226	Page 241	Page 242	Page 246







Memory

Stratified storage	Buffer memory	Drinking water reservoir	Compact storage
800 - 1000 L	200 - 5000 L	150 - 1000 L	50 - 200 L
			
BSP BSP-W	BSH SPU-1 SPU-2	SE-2 SEM-1, SEM-2 SEW-1, SEW-2	CSW, TR, TS CEW-1, CEW-2 CPU-1, CPM
Page 302	Page 307	Page 308-311	Page 65, 13, 246, 245, 252






Stations

Home stations		Fresh water stations		
with/without circulation 37 - 55 kW	with/without circulation 37 - 55 kW	60 - 80 kW	Hanging 80 - 320 kW	Standing 140 - 455 kW
				
CAT-HT/LT Page 290	CAT-LT/HT-CIRC Page 292	FWS-2 Page 312	FWS-2-Cascade Page 314	FWS-2max Page 317

Domestic ventilation

Central			Decentralized		
180 m³/h 300 - 400 m³/h	Wall 225 - 400 m³/h	26 - 42 m³/h	Booth 300 m³/h	Deck 150 - 300 m³/h	Wall 70 m³/h
					
CWL-EXCELLENT Page 352	CWL-2 Page 350	FWL PushPull Page 380	CWL-T EXCELLENT Page 354	CWL-F EXCELLENT Page 355	CWL-D Page 358

Control system

Operating modules	Room modules	Expansion modules	Internet interfaces	Special interfaces
				
BM-2 / BM AM	RM-2 WIRELESS / RM-2	MM-2 / MM SM1-2 / SM2-5 KM-2 / KM	WOLF LINK PRO WOLF LINK HOME	LON, BACNET, KNX

WOLF

Boilers

Oil condensing boilers		Page 2
TOB	TopLine floorstanding oil condensing boiler	Page 2
COB-2	ComfortLine floorstanding oil condensing boiler	Page 3
gas condensing boilers		Page 4
TGB-2-20-30	Gas condensing boiler	Page 4
MGK-2-130-300	Floorstanding gas condensing boiler for natural gas E, LL and LPG P	Page 5
MGK-2-390-630	Floorstanding gas condensing boiler for natural gas E, LL	Page 6
MGK-2-800-1000	Floorstanding gas condensing boiler for natural gas E, LL	Page 7
Control systems / Control accessories		Page 8
tanks TOB/COB		Page 14
TS	Enamelled DHW stratification cylinder compatible with TOB and COB/COB-2	Page 14
Accessories boilers		Page 15
Technical data		Page 38



TOB TopLine floorstanding oil condensing boiler



RG | H01

TYPE	TOB	18
Energy efficiency class		
Space heating medium temperature	A+++ → D	A
Raumheizungs-Energieeffizienz η_S	%	93
Min. rated heating output at 80/60 °C	kW	6.3 / 17.7
Min. rated heating output at 50/30 °C	kW	6.6 / 18.6
Nominal load min	kW	6.4 – 18.1
Max. flow temperature	°C	80
Air/flue gas pipe diameter	mm	80/125
Dimensions		
height	mm	1290
width	mm	566
depth	mm	605
Weight	kg	92
EC identification number		CE-0085CO00305
TOB	Art.-Nr.	8906714
	€	7640.00

- Modulating oil condensing boiler with a modulation range up to 35% for room-air-dependent and room-air-independent operation
- Proven combustion principle: pressure atomization
- Intelligent pump control (spreading)
- Technology without oil preheating: extremely low power consumption
- Intelligently controlled by Wolf control system WRS-2
- LAN / WLAN module WOLF LINK HOME can be integrated
- Including additional differential pressure socket and ionization control
- Seasonal space heating energy efficiency up to 93%, standard utilisation ratio η_i up to 105%
- Extremely quiet due to additional exhaust silencer: Sound power level according to ERP only 58 dB(A)
- Especially light for easy transport
- Easy operation and maintenance thanks to „integrated workbench“ and easy access from the front
- Compact refrigerator format: only 0.34m² of floor space, no minimum side distances
- Robust aluminium-silicon heat exchanger
- Proven ceramic flame tube
- Can be optimally expanded with the living space ventilation unit CWL-T-300 and the adjacent storage units TS-160, TR-160
- Neutralization and lifting pump can be integrated to save space
- Operation with standard and low-sulphur heating oil EL as well as organic heating oil (B10) possible
- Cascadable: Up to 5 pieces
- High-quality oil filter with vacuum gauge included in delivery
- Hybrid+: Intelligent combination with WOLF heat pumps



COB-2 ComfortLine floorstanding oil condensing boiler



RG | H01

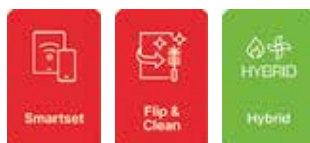
TYPE	COB-2	15	20	29	40
Energy efficiency class					
Space heating medium temperature	A+++ → D	A	A	A	A
Raumheizungs-Energieeffizienz η_S	%	92	92	93	93
Min. rated heating output at 80/60 °C	kW	9.2 / 14.7	13.4 / 19.5	18.9 / 28.8	27.4 / 38.5
Min. rated heating output at 50/30 °C	kW	9.6 / 15.4	14.1 / 20.4	19.9 / 30.4	28.7 / 40.4
Air/flue gas pipe diameter	mm	80/125	80/125	80/125	110/160
Dimensions					
height	mm	1290	1290	1290	1490
width	mm	566	566	566	566
depth	mm	605	605	605	605
Weight	kg	107	107	112	130
EC identification number		CE-0085CT0160			
COB-2	Art.-Nr.	8908791	8908792	8908793	8908794
	€	6645.00	6795.00	7290.00	8250.00

- 2-stage oil condensing boiler for room-air-dependent and room-air-independent operation
- Proven combustion principle: pressure atomization
- Technology without oil preheating: extremely low power consumption
- Intelligently controlled by Wolf control system WRS-2
- LAN / WLAN module WOLF LINK HOME can be integrated
- Including additional differential pressure sensor
- Seasonal space heating energy efficiency up to 93%, standard utilisation ratio η_{Hi} up to 105%
- Optionally expandable with living space ventilation unit CWL-T-300 and adjacent storage units TS-160 / TR-160 (COB-2-15/20/29)
- Especially light for easy transport
- Easy operation and maintenance thanks to „integrated workbench“ and easy access from the front
- Compact refrigerator format: only 0.34m² footprint, no minimum side clearances
- Extremely quiet due to additional exhaust silencer: Sound power level according to ERP only 53 dB(A) (15 kW)
- Robust aluminium-silicon heat exchanger
- Proven ceramic flame tube
- Neutralization and lifting pump can be integrated to save space
- Operation with standard and low-sulphur heating oil EL as well as organic heating oil (B10) possible
- Cascadable: Up to 200 kW
- 100% connection compatible with WOLF COB
- Hybrid+: COB-2-15/20 can be intelligently combined with WOLF heat pumps



TGB-2

Gas condensing boiler



RG | H02

TYPE	TGB-2	20	30	40
Energy efficiency class				
Space heating medium temperature	A+++ → D	A	A	A
Raumheizungs-Energieeffizienz η_S	%	94	94	
Power range of heating at 80/60°C	kW	2,9 – 17,0	5,0 – 26,9	6,1 – 35,7
Power range of heating at 50/30°C	kW	3,3 – 19,6	5,8 – 30,2	7,4 – 40,5
Air/flue gas pipe diameter	mm	80/125	80/125	80/125
Dimensions				
height	mm	1290	1290	1290
width	mm	566	566	566
depth	mm	605	605	6
Weight	kg	100	100	100
EC identification number		CE-0085DL0121		
TGB-2	Art.-Nr.	8615761	8615762	8616547
	€	5360.00	5870.00	6495.00

- Ideal for easy replacement of existing boilers
- Generously sized AlSi heat exchanger with ample heating water capacity
- Flexible flue gas connection at the top (wall-mounted) or at the back (e.g. low chimney connection) (e.g. low chimney connection)
- exchangeable without accessories
- Easy integration into existing systems, also without hydraulic switch
- modulation range 17 - 100
- Seasonal space heating efficiency of 94 %
- Expandable to a hybrid solution (e.g. in combination with heat pump or solar thermal)
- Pump spreading control for additional use of calorific value
- Numerous identical parts to other WOLF units (CGB-2, TOB)
- Extremely quiet unit (< 42 dB (A))
- Flip&Clean device with comfortable storage and full accessibility from the front Practical bayonet locks
- Expandable to a home automation center with storage solutions TS/TR-160 and living room ventilation
- Cross-product WOLF control system WRS-2: BM-2 with commissioning wizard
- LAN / WLAN module WOLF Link home can be integrated
- Compact refrigerator format: Only 0.34m² footprint
- When using the Flip&Clean position, a minimum side clearance of 150 mm must be of 150 mm must be planned on the right
- Equipped for natural gas E. Conversion kits for changing the gas type gas type see chapter „Service



MGK-2

Floorstanding gas condensing boiler for natural gas E, LL and LPG P



RG | H02

TYPE	MGK-2	130	170	210	250	300
Power range of heating at 80/60°C	kW	23 – 118	27 – 157	34 – 196	39 – 233	45 – 275
Power range of heating at 50/30°C	kW	24 – 126.0	30 – 167.0	37 – 208.0	44 – 250.0	49 – 294.0
Dimensions						
height	mm	1300	1300	1300	1300	1300
width	mm	995	1355	1355	1355	1355
depth	mm	640	640	640	640	640
Weight	kg	195	250	271	292	313
EC identification number		CE-0085CN0326				
MGK-2	Art.-Nr.	8752241	8752242	8752243	8752244	8752245
	€	11440.00	13300.00	15685.00	17955.00	20205.00

- Modulation range 17 - 100 %
- Standard seasonal efficiency [to DIN] up to 110 % (net cv)
- No minimum circulating water flow rate required
- Neutralising kit with booster and condensate removal pump can be integrated
- Extremely low noise operation
- Completely encased and thermally insulated
- Compact construction, fits through a door 800 mm wide
- Integral back draught safety device for flue cascade operation
- Communication possible using smartphone, laptop or PC via LAN/WLAN module iSM7i / WOLF LINK HOME
- 0-10 V input for building management system
- Fault message output 230 V
- Common sensor for low loss header can be connected
- Cascade operation with up to 5 appliances possible



MGK-2

Floorstanding gas condensing boiler for natural gas E, LL



RG | H02

TYPE	MGK-2	390	470	550	630
Power range of heating at 80/60°C	kW	58 – 366	71 – 435	84 – 512	97 – 584
Power range of heating at 50/30°C	kW	64 – 392.0	78 – 467.0	94 – 549.0	107 – 627.0
Dimensions					
height	mm	1420	1420	1420	1420
width	mm	1700	1700	1700	1700
depth	mm	850	850	850	850
Weight	kg	390	420	450	480
EC identification number		CE-0085CN0326			
MGK-2	Art.-Nr.	8751976	8751977	8751978	8751979
	€	27500.00	30830.00	34145.00	37690.00

- Modulation range 17 - 100 %
- Standard seasonal efficiency [to DIN] up to 110 % (net cv)
- No minimum circulating water flow rate required
- Neutralising kit with booster and condensate removal pump can be integrated
- Extremely low noise operation
- Can be split for transport; largest module 1420×1295×790 mm
- Communication possible using smartphone, laptop or PC via LAN/WLAN module iSM7i / WOLF LINK HOME
- 0-10 V input for building management system
- Fault message output 230 V
- Common sensor for low loss header can be connected
- Integral back draught safety device for flue cascade operation
- Cascade operation with up to 5 appliances possible
- Completely encased and thermally insulated
- Compact construction, fits through a door 800 mm wide



MGK-2

Floorstanding gas condensing boiler for natural gas E, LL






RG | H02

TYPE	MGK-2	800	1000
Power range of heating at 80/60°C	kW	119 – 700	157 – 931
Power range of heating at 50/30°C	kW	133 – 752.0	174 – 1000.0
Dimensions			
height	mm	1460	1460
width	mm	2015	2015
depth	mm	970	970
Weight	kg	625	680
EC identification number		CE-0085CN0326	
MGK-2	Art. no.	8752607	8752608
	€	45820.00	53600.00



- Modulation range 17 - 100 %
- Standard seasonal efficiency [to DIN] up to 110 % (net cv)
- No minimum circulating water flow rate required
- Neutralising kit with booster and condensate removal pump can be integrated
- Extremely low noise operation
- Completely encased and thermally insulated
- Compact design, fits through a door 1000 mm wide
- Can be split for transport; largest module 1460×1700×950 mm
- Communication possible using smartphone, laptop or PC via LAN/WLAN module iSM7i / WOLF LINK HOME
- 0-10 V input for building management system
- Fault message output 230 V
- Common sensor for low loss header can be connected
- Integral back draught safety device for flue cascade operation
- Cascade operation with up to 5 appliances possible




Control systems / Control accessories

	Description	Art. no.	DG	€
	BM-2 programming unit <ul style="list-style-type: none"> • Central operating module for WOLF heat generators of the WRS-2 generation • Room/weather-compensated temperature controller • for installation in heat generators / additional modules or in wall sockets for remote control • with time programs for heating, hot water and circulation • intuitive menu guidance with plain text display and 3.5" colour display • Commissioning assistant with automatic detection of plant components • Support of 5 heat generators with KM-2 • Adjustment of heating and cooling curves • Can be used as remote control for CWL Excellent / CWL-2 • Compatible with WOLF Smartset 			
	incl. outdoor temperature sensor, BM-2 black	2745304	H41	489.00
	incl. outdoor temperature sensor, BM-2 white	2745927	H41	489.00
	without outdoor temperature sensor, BM-2 black	2745306	H41	452.00
	Note: Required for the operation in accordance with EnEV.			
	AM Basic Without outdoor temperature sensor The AM-Basic serves as a temporary replacement for the BM-2: Commissioning and rudimentary operation of a WOLF heating system. Compatibility: <ul style="list-style-type: none"> • 1 heater incl. direct heating circuit & hot water circuit • max. 7 mixer modules with up to 7 mixer and hot water circuits The AM-Basic includes the following functions: <ul style="list-style-type: none"> • Setting of a common flow temperature for all heating circuits (dir. HK + MKs) • Setting of a common hot water set temperature • Activation of chimney sweep operation • Visualization and acknowledgement of error messages Step by step instructions see page B/C Note: The heating and hot water circuits are permanently controlled to the set temperatures adjusted at the AM-Basic!	8616978	H41	452.00
	Outside, ceiling or room temperature sensor	2792021	H41	37.00
	AM display module For installation in the appliance Note: Required for appliance operation if the BM-2 is used as a remote control.	2745310	H41	244.00








	Description	Art. no.	DG	€
	Wall mounting base for BM-2 For using the BM-2 programming unit as a remote control			
	black	1731129	H41	33.80
	white	1731442	H41	33.80
	MM-2 mixer module Extension module for weather-compensated flow temperature control of a circuit with mixer. <ul style="list-style-type: none"> • Can be extended with the BM-2 programming unit as a remote control • Up to 7 mixer modules can be integrated into one system • Easy configuration of the controller by selecting predefined system versions • eBus interface with automatic energy management • Rast 5 connection technology • Incl. flow temperature sensor 	2745865	H41	412.00
	SM1-2 solar module Extension module for controlling a solar system with up to 2 storage tanks and 2 collector arrays <ul style="list-style-type: none"> • Simple configuration of the controller by selection of pre-defined plant variants • In combination with Wolf heaters, higher energy savings due to intelligent Storage tank recharging, i.e. blocking of storage tank recharging with a sufficiently high solar yield • Heat quantity measurement with external heat quantity meter for all configurations • Function control for volume flow and gravity brake • Selection of the storage mode (priority, secondary and parallel operation) • Display of setpoints and actual values in the adjustment module BM-2 eBus interface with automatic energy management • Rast 5 Connection technology • Immersion sensor PT1000 For collector • Immersion sensor 5K NTC for storage tank • Storage immersion sleeve 1/2" with PG strain relief • Collector immersion sleeve 3/4" with PG strain relief and seal 	2745867	H41	305.00





Control systems / Control accessories

	Description	Art. no.	DG	€
	SM2-2 solar module Extension module for controlling a solar system with up to 2 storage tanks and 2 collector arrays	2745869	H41	500.00
	<ul style="list-style-type: none"> • Simple configuration of the controller by selecting predefined system variants • In conjunction with Wolf heaters higher energy savings through intelligent storage tank recharging, i.e. blocking of storage tank recharging if solar yield is sufficiently high • Heat quantity measurement with external heat quantity meter for all configurations • Function control for volume flow and gravity brake • Selection of the storage mode (priority, subordinate and parallel operation) • Display of set and actual values in the BM-2 operating module • eBus interface with automatic energy management • Rast 5 Connection technology • Immersion sensor PT1000 For collector • Immersion sensor 5K NTC for storage tank • Storage immersion sleeve 1/2" with PG strain relief • Collector immersion sleeve 3/4" with PG strain relief and seal 			
	KM-2 cascade module Extension module to control systems with a low loss header or cascade operation. Can be used for up to 5 heat generators. (Subject to heat generator)	2745866	H41	615.00
	<ul style="list-style-type: none"> • Easy configuration of the controller by selecting predefined system versions • Switching of a circuit with mixer • BM-2 programming unit can be clipped into place or extended as a remote control unit with a wall mounting base • 0-10V input for building management systems, fault message output 230V • eBus interface with automatic energy management • Rast 5 connection technology 			

	Description	Art. no.	DG	€
	Room module RM-2 4 in 1: Automatic recognition of the function based on system components: <ul style="list-style-type: none"> • Room temperature controller with daily/weekly program • Remote control for living room ventilation CWL Excellent / CWL 2 (at the same time as room temperature control) • Remote control of all heating or mixing circuits (with BM/BM-2 in the system) • Remote control for up to 7 individual heating circuits with several RM-2 (with BM/BM-2 in the system) • Illuminated touch screen • Integrated room temperature sensor • Connection via eBus interface • Many functions: Holiday mode, fault messages, temperature displays etc. • Compatible with WOLF Smartset 	2747657	H41	252.00
	Room module RM-2 Wireless Wireless version of the RM-2 A BASE WIRELESS is required for connection to the heat generator/ventilation system. (Long life batteries included) 4 in 1: Automatic recognition of function based on system components: <ul style="list-style-type: none"> • Room temperature controller with daily/weekly program • Remote control for living room ventilation CWL Excellent / CWL 2 (simultaneously with room temperature control) • Remote control of all heating or mixer circuits (with BM/BM-2 in the system) • Remote control for up to 7 individual heating circuits with several RM-2 (with BM/BM-2 in the system) • Illuminated touch screen • Integrated room temperature sensor • Many functions: Vacation mode, fault messages, temperature displays, etc. • Compatible with WOLF Smartset • Long life batteries included 	2747658	H41	298.00
	Outdoor temperature sensor for RM-2 Wireless Wireless based outdoor temperature sensor BASE WIRELESS is required for connection. Battery with long runtime included.	2747660	H41	169.00

Control systems / Control accessories

	Description	Art. no.	DG	€
	Base Wireless <ul style="list-style-type: none"> Wireless receiver with eBus connection for the heat generator or domestic ventilation. For wireless communication with RM-2 Wireless or outdoor temperature sensor Wireless 	2747659	H41	228.00
	AFB analogue remote control <ul style="list-style-type: none"> Basic WRS remote control for heating and mixer circuits Each heating circuit can be operated separately with a remote control Integrated room temperature sensor Setting of temperature and program selection via rotary selector eBus interface 	2744551	H41	132.00
	Maximum thermostat For underfloor heating For switching off the heating circuit pump if the set temperature is exceeded.	2791905	H41	65.00
	Temperature sensor (NTC 5k, Ø 6 mm) loose Can be used as a cylinder, boiler, central unit and supply air temperature sensor	8852829	H41	67.00
	Heat metering kit For measuring the yield of SM1-2 and SM2-2 solar modules Consisting of: Flow meter, return contact sensor (NTC 5k), 2 union connections with male thread 1/2"			
	QNenn/max 1,5/3 m³/h	2744392	H41	204.00
	Qnom/max. 2.5/5 m³/h	2744610	H41	250.00
	Return contact sensor (NTC 5k) For SM1-2 and SM2-2 solar modules For measuring the yield using Δt and the flow rate set in the control unit.	2792022	H41	57.00
	WOLF LINK HOME LAN / WLAN INTERFACE MODULE Consisting of: WOLF LINK HOME interface module, connection cable, installation / operating instructions, network cable <ul style="list-style-type: none"> Integrated LAN and WLAN interfaces for integration of WOLF heating systems in one network, or For WOLF heating device connections to the Wiburther Smarthome system <p>Note: To obtain full access to both functions and operation a programming module BM-2 is recommended.</p>	2746365	H41	270.00

	Description	Art. no.	DG	€
	WOLF Link 4G Consisting of: Interface module WOLF Link 4G incl. LTE router with external antenna, mounting / operating instructions, power supply unit <ul style="list-style-type: none"> • Interface module for wall mounting in systems without a fixed Internet connection • Connection of WOLF heating systems to the WOLF Smartset Portal / App • Use for parameterization of compatible WOLF devices • Power supply via power supply unit • A mobile data tariff (min. 3G) with approx. 500MB/month is required for operation. <p>Note: Service leasing variant incl. Multi-Sim card (minimum contract term 2 years) available from Wolf Service.</p>	2747704	H41	1060.00
	ISM8i OPEN SOURCE ETHERNET INTERFACE MODULE Interface module with disclosed TCP/IP protocol for system-independent integration of WOLF heating appliances and ventilation units.	2745831	H41	277.00
	KNX interface kit Interface kit for integration of WOLF heating appliances into a KNX network <p>Consisting of: Interface module ISM8i ETHERNET, KNX-IP-BAOS module, installation and operating instructions, network cable</p>	2745713	H41	845.00
	I/O module Extension module for 2 programmable inputs and 2 programmable outputs	2745730	H41	181.00
	BACnet interface kit Interface kit for integration of WOLF heating appliances into a BACnet network <p>Consisting of: Interface module ISM8i, WOLF BACnet gateway, installation and operating instructions, network cable (2 pcs)</p>	2746108	H41	1995.00



TS/TR

Enamelled DHW stratification cylinder compatible with TOB, COB-2 and TBG-2

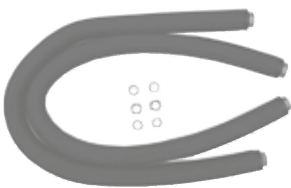
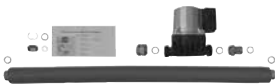




RG | H45







TYPE	TR		160
	TS	100	
Energieeffizienzklasse			
Energy efficiency class	A+ → F		
Energy efficiency class	A+ → F	B	B
Cylinder capacity	l	160	152
Dimensions			
MasseA	mm	1290	1290
MasseB	mm	566	566
MasseC	mm	605	605
Weight	TR	kg	72
Weight	TS/TR	kg	76
TR	Art. no.		8908815
	€		2425.00
TS/TR	Art. no.	8908101	
	€	2325.00	

- Universal compact solutions for WOLF oil condensing boilers in stylish design.
- Easy installation thanks to modular design
- Minimum installation time and costs: Saves on-site HE-Pumps, ventilators, piping and much more.
- Comfortable hot water preparation: large tank capacity
- 8l hot water expansion vessel and circulation pump can be integrated to save space
- Enamelled steel cylinder ensures hygienic water heating and long service life Innovative insulation technology
- „Hot water turbo“ with new control and distribution system for hot and cold water in the TS-160 hot water stratified tank ensures quiet, radial water distribution and excellent hot water output (patented)
- The powerful one: TS-160
- Efficient storage tank loading via stainless steel plate heat exchanger
- Stratified storage technology for maximum efficiency and convenience
- Incl. high-efficiency charging pump (EEI<0.23) and storage tank temperature sensor 6 mm
- The universal one: TR-160
- Fast hot water preparation via large dimensioned pipe coil heat exchanger
- Can also be used efficiently in particularly calcareous areas - can save expensive drinking water treatment
- Inspection opening for easy cleaning of the storage tank


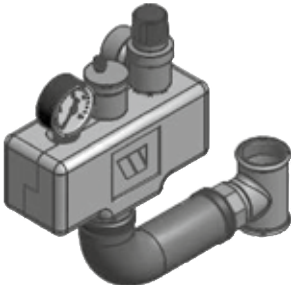


	Description	for product	Art. no.	DG	€
	Connection kit, adjacent to the wall Consisting of: 2 cross-pieces, each with 1 connection 2 clips 1 corrugated stainless steel pipe 1" (1300mm long) 1 corrugated stainless steel pipe 1" (800mm long) 1 tube of silicone grease	TGB-2,TOB,COB-2	2070947	H40	230.00
	Connection kit Standing against the wall, for TS cylinder consisting of: 2 cross pieces with 2 connections each 4 brackets 3 stainless steel corrugated pipes 1" (1300mm long) 1 corrugated stainless steel tube 1" (800mm long) 2 stainless steel corrugated pipes 3/4" (800mm long) 1 silicon grease tube 1 set of cuts 3/4" 1 Reduction set 1"	TGB-2,TOB,COB-2	2070948	H40	401.00
	Connection kit, adjacent to the wall For SE-2 cylinders up to 750 l, SEM-1 up to 750 l or SEM-2 up to 400 l consisting of: 2 cross pieces with 2 connections each, 3 stainless steel corrugated pipes 1" (1300mm long) 1 corrugated stainless steel tube 1" (800mm long) 4 brackets 1 silicon grease tube 1 pipe bend 1 high-efficiency pump DN25-60 (EEI < 0.23) 6 flat gaskets 1" 2 double nipples G1" AG - G1" 2 flat gaskets 1 1/2" EPDM 1 elbow with air vent 1 Fitting transition G1 1/2" IG to G1" AG	TGB-2,TOB,COB-2	2071732	H40	925.00


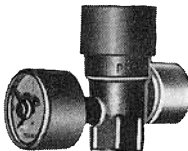



Accessories boilers

	Description	for product	Art. no.	DG	€
	Extension for connection kit for piping group or SEM-1 1000 or stratified buffer tank BSP-800 and 1000 consisting of: 2 stainless steel corrugated pipes 1" (1500mm long) 2 double nipples G1" AG - G1" 2 flat gaskets 1".	TGB-2, TOB, COB-2	2070728	H40	205.00
	DHW circulation pump kit Consisting of: 3-stage DHW circulation pump, corrugated stainless steel pipe 3/4", trimming kit 3/4"	TS-160 TR-160	8905748	H40	337.00
	Automatic fuel oil air vent valve with integrated filter 5-20 µm, stopcock and vacuum gauge. Connection thread on tank side 1 x G 3/8" IT for compression fitting; external thread on burner side 2 x G 3/8" ET with internal cone for hose fitting	COB-2, TOB	2484539	H40	249.00
	Fuel oil filter for single line system With return feed, automatic venting, retainer and shut-off valve; female connection thread on the tank side 1 x G 3/8" for locking ring fittings; male thread on the burner side 2 x G 3/8" with inside cone for hose connection	COB-2	2400405	H40	249.00
	Neutralising box Incl. granulate filling and mounting accessories	COB-2-15/20/29, TOB COB(-2)-40	2484013 2483689	H40 H40	434.00 462.00
	Granulate refill pack 5 kg granulate and 0.5 kg activated charcoal 9 kg granulate and 0.5 kg activated charcoal	COB-15-29, TOB COB-40	2483972 2483974	H40 H40	134.00 178.00



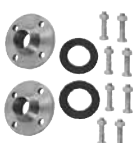
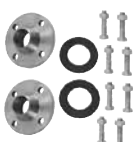

	Description	for product	Art. no.	DG	€
	Neutraliser with booster for installation in the device Filter housing with large maintenance cover, Booster pump 230V, power consumption 5W, and air hose with check valve				
		MGK-2-130-170	2484810	H40	436.00
		MGK-2-210-300	2484811	H40	555.00
		MGK-2-390-630	2484541	H40	920.00
		MGK-2-800-1000	2485247	H40	1395.00
	Refill pack for neutraliser consumption: approx. 10g - 30g per kW and year				
	Refill pack 1.3 kg	Neutraliser	2400371	H40	37.60
	Refill pack 5 kg	Neutraliser	2484538	H40	98.00
	Refill Pack Fill & Go 3,75kg	Neutraliser	2485083	H40	83.00
	Condensate pump with potential-free alarm output ready to plug in COB / TOB for installation in neutralisation box consisting of: condensate pump with potential-free alarm output, PVC hose 10mm (6m long), check valve	TGB-2, TOB, COB-2	2071267	H40	251.00
	Condensate pump with potential-free, fully wired alarm output Consisting of: Condensate pump with floating alarm out- put, condensate tank with lid and wall retain- er, PVC hose 10 mm (6 m long), non-return valve, condensate inlet adaptor	TLHK-EC, TLHK, CWL Excellent, CWL-2, CWL-F/T- Excellent, COB-2, TOB, TGB-2	2071268	H40	290.00
	Condensate removal pump, ready to plug in with potential-free alarm output consisting of: Condensate pump with potential-free alarm output, large condensate tank, PVC hose 10mm (6m long), check valve and conden- sate inlet adapter	MGK-2	2071999	H40	290.00





Accessories boilers

	Description	for product	Art. no.	DG	€
	Adaptor cable For anti-lift valve	TOB	2745504	H41	46.00
	Safety assembly Safety valve with 3 bar response pressure, pressure gauge and one KFE valve each in flow and return	TGB-2, TOB, COB-2	2070666	H40	243.00
	Safety assembly Safety valve with 3 bar response pressure, pressure gauge, automatic venting valve with automatic shut-off, incl. thermal insulation	MGK-2-130	2071535	H40	382.00
		MGK-2-170-300	2071536	H40	510.00
	Safety assembly with connection 2" (partially pre-assembled) Consisting of: 2 safety valves with 3 bar response pressure, pressure gauge, automatic air vent valve with automatic shut-off, integrated compact valve distributor with 4 connections for 2 pressure limiters 1/2", thermometer/pressure gauge 1/2", expansion vessels with 3/4" connection and thermal insulation	MGK-2-390-630	2071671	H40	815.00
	Safety assembly with connection 2.5" (partially preassembled) consisting of: 2 safety valves for 3 bar response pressure, manometer, automatic venting valve with automatic shut-off, integrated compact fitting bar with 4 connections for 2 pressure limiters 1/2", thermo-/ manometer 1/2", connection expansion vessel 3/4" and thermal insulation	MGK-2-800/1000	2072253	H40	1660.00
	Boiler fill and drain valve connection kit, 1" consisting of: Reducing angle, filling and draining cock with cap for connection to the return	MGK-2, MGK-2-390-630	2071672	H40	142.00
		MGK-2-800/1000	2072263	H40	225.00


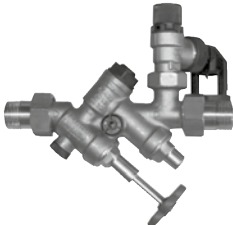
	Description	for product	Art. no.	DG	€
	Safety valve 6 bar response pressure. Can be mounted in exchange on the safety groups for MGK-2 will be.	MGK-2-170-630	2072041	H40	313.00
	Safety valve with pressure gauge 3 bar response pressure for sealed unvented hot water heating systems up to 50 kW, connection 1/2" female thread, discharge 3/4" female thread, pressure gauge display range 0-4 bar	BWL-1	240046599	H40	57.00
	Safety valve 3 bar response pressure for sealed unvented hot water heating systems, chrome plated				
	Up to 50 kW, connection 1/2" female thread, discharge 3/4" female thread, pressure gauge display range 0-4 bar	All boiler, gas heaters up to 24kW	2011000	H40	26.70
	Up to 100 kW, connection 3/4" female thread, discharge 1" female thread	All boiler, gas heaters from 35kW	2011191	H40	44.00
	Automatic air vent valve With automatic shut-off, connection 1/2" male thread	All boilers, all heat pumps	2400486	H40	12.80
	Refill kit for heating system for the automatic filling of Heating systems. consisting of: Backflow preventer type BA, strainer, adjustable pressure reducer and drain connection for direct connection of a heating system to a drinking water supply system, protected according to EN 1717. Including shut-off devices and thermal insulation shells Connection 1/2" male thread, outlet pressure 1.5 - 4 bar	All boilers	2484442	H40	545.00


Accessories boilers

	Description	for product	Art. no.	DG	€
	Pump shut-off valve For the heating circuit pipe assembly, for shut-off upstream of the pump for straight-forward pump replacement, with easily operated ball valve, for installation with flat gasket below the thermal insulation shell				
	DN25	CGB-35/50/- K-40-35, All boilers	2012058	H40	36.70
	DN32	All boilers, CGB-35/50/-K-40-35	2012062	H40	56.00
	Note: DN25 is also suitable for the pipework set for cylinders installed below the boiler and floor-standing cylinders (2 pcs required)				
	Dirt trap in flange/sloped seat design with built-in stainless steel sieve, fine filter with drain plug, corrosion protection by powder coating, for installation position: horizontal or vertical.				
		MGK-2-130	2484850	H40	214.00
		MGK-2-170-300	2484851	H40	242.00
		MGK-2-390-630	2484640	H40	487.00
		MGK-2-800/1000	2485035	H40	645.00
	Flange kit for dirt trap mounting consisting of: 2 threaded flanges DIN 2565, incl. screw connection and 2 flange gaskets DIN 2690	MGK-2-130	2484852	H40	89.00
		MGK-2-170-300	2484853	H40	123.00
	Flange kit for appliance connection or for mounting the dirt trap consisting of: 2 welding neck flanges DIN 2631, incl. screw connection and 2 flange gaskets DIN 2690	MGK-2-390-630	2484545	H40	180.00
		MGK-2-800/1000	2485060	H40	204.00
	Microbubble separator To protect the unit and the high-efficiency pump from dirt / sludge and magnetite, a sludge separator with magnetite separator must be installed in the heating return. WOLF recommends a micro-bubble separator in the heating flow to effectively remove air and micro-bubbles.				
		1" up to 2.1 m³/h	2071877	H40	177.00
		1¼" to 3.5 m³/h	2070407	H40	213.00
		1½" up to 5.4 m³/h	2072251	H40	235.00
		2" up to 8.2 m³/h	2072252	H40	313.00



	Description	for product	Art. no.	DG	€
	Thermal insulation For microbubble separator				
	1"		1669275	H40	89.00
	1¼" / 1½"		1669276	H40	89.00
	2"		1669280	H40	89.00
	Sludge separator To protect the unit and the high-efficiency pump against dirt / sludge and magnetite is a sludge separator with magnetite separator in the heating return flow. WOLF recommends the following for effective removal of air and microbubbles a microbubble separator in the heating flow.				
	1" up to 2.1 m³/h		2071880	H40	263.00
	1¼" up to 3,5m³/h		2071879	H40	300.00
	1½" up to 5.4 m³/h		2072246	H40	326.00
	2" up to 8.2 m³/h		2072247	H40	367.00
	Thermal insulation For dirt trap incl. magnetite separator				
	1"		1669270	H40	93.00
			1669271	H40	93.00
	2"		1669272	H40	93.00
	Sludge separator, rotatable <ul style="list-style-type: none">• Rotatable version for flexible use on the construction site• With extra powerful removable magnet• Incl. sludge tap and removable housing base for easy maintenance To protect the unit and the high-efficiency Pump from dirt / sludge and magnetite is a sludge separator with magnetite separator to be installed in the heating return flow. For effective removal WOLF recommends of air and micro-bubbles a micro-bubble separator in the heating flow.				
	1" till 2,1m³/h		2075008	H40	286.00
	1¼" till 3,5m³/h		2075009	H40	414.00
	1½" bis 5,4m³/h		2075010	H40	461.00


Accessories boilers

	Description	for product	Art. no.	DG	€
	heat insulation for sludge separator (rotatable) incl. magnetite separator				
	1"		1669602	H40	91.00
	1¼"		1669603	H40	91.00
	1½"		1669604	H40	91.00
	Safety assembly Brass, DVGW component tested, with enlarged outlet for hot water storage tanks, according to DIN 4753 and DIN 1988, consisting of: 2 shut-off valves, 1. shut-off valve with test screw and backflow preventer (removable), 2. shut-off valve with both Pressure gauge connection ¼" without pressure gauge, safety valve set to 10 bar, exchangeable safety valve insert, drain funnel 1", screw connections				
	¾" connection	Cold/hot water	2796175	H40	161.00
	1" connection	Cold/hot water	2796176	H40	173.00





	Description	for product	Art. no.	DG	€
	Pipe assembly for heating circuit consisting of: High-efficiency pump (EEI < 0.20) self-regulating, wired with cable ready to plug in, Ball valves with thermometer in flow and return, gravity brake without overflow valve Design thermal insulation shells made of EPP, group completely assembled, hydraulically and electrically tested Dimensions HxWxD: 384×250×260 Distance between spigots: 125mm DN25: Connection flat at the bottom. 1½" top IG 1" transition screw connection Δp=150 mbar at V=2350 l/h at Δt 10K to 27kW, at Δt 15K to 41kW at Δt 20K to 55kW DN32: Connection flat at the bottom. 1½" top IG1 1¼" Transition screw connection Δp=150 mbar at V=3100 l/h at Δt 10K to 36kW, at Δt 15K to 54kW at Δt 20K to 72kW DN25-60 DN32-60 Note: Flow can be easily switched from left to right. No additional wall retainer required for installation on a manifold.				
			2072135	H40	925.00
			2072136	H40	980.00







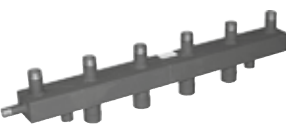
Accessories boilers

	Description	for product	Art. no.	DG	€
	Pipe assembly for heating circuit DN25-60 consisting of: High efficiency pump (EEI < 0.20) speed controlled, wired with cable ready to plug in, Ball valves with thermometer in flow and return, gravity brake without overflow valve Design thermal insulation shells made of EPP, group completely assembled, hydraulically and electrically tested Dimensions HxWxD: 384×250×260 Distance between spigots: 125mm DN25: Connection flat at the bottom. 1½" top IG 1" transition screw connection $\Delta p=150$ mbar at $V=2350$ l/h at Δt 10K to 27kW, at Δt 15K to 41kW at Δt 20K to 55kW Note: Flow rate control subject to boiler spread cannot be used when there are multiple heating circuits		2072137	H40	900.00
	 Pipe assembly for single line DN25-60 consisting of: High-efficiency pump (EEI < 0.20), self-regulating with cable, ball valves and gravity brake. Design heat insulation shells made of EPP, group completely assembled, hydraulically and electrically tested; dimensions HxWxD: 384×200×250 max. permissible operating pressure 10bar DN25: Connection flat at the bottom. 1 1/2" top IG 1" transition screw connection $\Delta p=150$ mbar at $V=2350$ l/h DN25-60 at Δt 10K to 27kW at Δt 15K to 41kW at Δt 20K to 55kW		2072141	H40	735.00


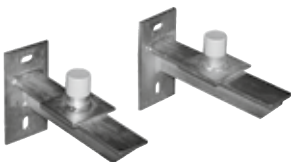

	Description	for product	Art. no.	DG	€
	Pipe assembly for circuit with mixer consisting of: High-efficiency pump (EEI < 0.20) self-regulating, mounted mixer motor, both wired with cable ready to plug in, drip-proof at zero position, ball valves with thermometer in flow and return, gravity brake without over-flow valve Design thermal insulation shells made of EPP, group completely assembled, hydraulically and electrically tested Dimensions HxWxD: 384×250×260 Distance between spigots: 125mm DN25: 3-way brass mixer kvs=10 Connection flat at the bottom. 1½" Above IG 1" transition screw connection, adjustable bypass Δp=150 mbar at V=2200 l/h at Δt 10K to 26kW at Δt 15K to 38kW at Δt 20K to 51kW DN32: 3-way brass mixer kvs=18 Connection flat at the bottom. 1½" top IG1 1¼" Transition screw connection Δp=150 mbar at V=3000 l/h at Δt 10K up to 35kW at Δt 15K to 52kW at Δt 20K to 70kW DN25-60 DN32-60 Note: Flow can be easily switched from left to right. No additional wall retainer required for installation on a manifold. MM-2 mixer module can be integrated.				
			2072139	H40	1355.00
			2072140	H40	1465.00



Accessories boilers

	Description	for product	Art. no.	DG	€
	Manifold with thermally separated supply and return Design thermal insulation shells made of EPP. Distributor can be rotated or moved through 3 boiler-side connection pipes for adaptation to the heating circuit side flow, wall bracket included Dimensions HxWxD: 168×500/750×140 Distance between spigots: 125mm Connection flat at the bottom. 1½" flat sealing at the top with union nut 1½" kvs=12,5 / Vmax.=4500 l/h Δp=130 mbar at V=4500 l/h Δp=40 mbar at V=2500 l/h				
	2 heating circuits or circuits with mixer		2072197	H40	339.00
	3 heating circuits or circuits with mixer		2072198	H40	495.00
	Hydraulic separator up to 18 m³/h consisting of: Square hollow profile 200 × 120 mm and four connecting flanges DN80/PN6, 1/2" vent valve mounted, 2" closing cap mounted, 1/2" immersion sleeve (l=100 mm) mounted, with mounted blind flange plate for opt. installation of a magnetite separator	Cascade CGB-2-75/100 MGK-2 CHA	2075380	H40	1995.00
	Insulation for hydraulic separator 18 m³/h consisting of: Half shells with cutouts for all nozzles, 65 mm PUR foam in aluminum coarse grain jacket	Hydraulic switch 18 m³/h	2075381	H40	745.00
	Magnetite separator for hydraulic separator 18 m³/h Blind flange DN100 PN6 with gasket and Magnetite plug 40×160 (DxL)	Hydraulic switch 18 m³/h	2075382	H40	690.00



	Description	for product	Art. no.	DG	€
	Wall retainer kit For heating/mixer circuit pipe assemblies For quick and safe installation of pipe assemblies.				
	For DN25 heating circuits or circuits with mixer		2072199	H40	35.60
	For DN32 heating circuits or circuits with mixer		2072200	H40	36.10
	Note: Not required if the pipe assemblies are installed on the manifold.				
	Wall retainer kit for pipe assembly for single line For quick and secure installation of the pipe assembly		2072201	H40	36.10
	Cross-pieces for free combinations Consisting of: 2 cross-pieces for each 1x flat gasket flange with 1½" union nut and 4x flat gasket male threads 1½", 4 sealing caps with gaskets.	boilers	2012072	H40	91.00
	Tees for free combinations Consisting of: 2 tees for each 1x flat gasket flange with 1½" union nut and 2x flat gasket male threads 1½", 1 sealing cap with gasket.	boilers	2012073	H40	69.00
	Threaded adaptor fitting Freely combinable, 1x flat gasket flange with 1½" union nut and 1x with 1" female thread. (1 set = 2 pce)		2012074	H40	27.60
	Threaded adaptor fitting Freely combinable, 1x flat gasket flange with 1½" union nut and 1x with 1¼" male thread. (1 set = 2 pcs)	BWS-1 / BWW-1, all boilers	2012086	H40	30.80
	Heating distributor for 3 heating circuits with connection for safety group and Hot water tank Nozzle distance 200mm, Connections above 1½", below 2".	Boilers up to 120kW (up to 50kW, see page 37)	2020103	H40	483.00

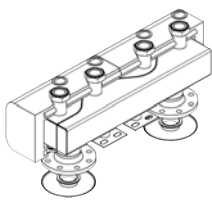
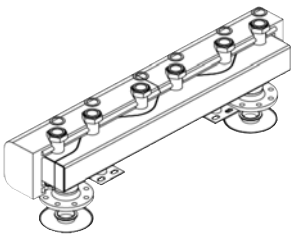
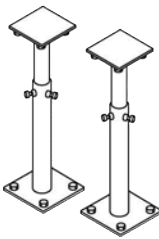
Accessories boilers

	Description	for product	Art. no.	DG	€
	Thermal insulation shells Suitable for heating distributor with 3 heating circuits	Boilers (up to 120kW up to 50kW, see page 37)	1620103	H40	393.00
	Wall mounting bracket Suitable for heating distributor with 3 heating circuits	Boilers up to 120kW (up to 50kW, see page 37)	2020201	H40	126.00
	Hydraulic separation For hydraulic separation of a floor heating circuit from the remaining parts of the heating system. consisting of: a plate heat exchanger, connection fittings, manual air vent, a corrugated tube hose, a cap valve, a safety group with connection pipe, seals and Design thermal insulation shells made of EPP; Transition capacity primarily 70/50°C, secondary 25/35°C.....25kW max. permissible operating overpressure 10 bar max. permissible operating temperature 110°C kvs-value: 4,3 distance between spigots: 125mm, overall height: 130mm For system separation in conjunction with a Boilers should have the following accessories for the primary circuit or the secondary circuit is used will be: Primary circuit (boiler circuit) Piping group Mixer circuit with high-efficiency pump DN25-60 (EEI <0.20). self-regulating (art.no.2072139) Secondary circuit (heating circuit) Piping group heating circuit for system separation with high-efficiency pump DN26-60 (EEI < 0.20), self-regulating (Art.No.2072138)	Boiler,	2072202	H40	855.00





	Description	for product	Art. no.	DG	€
	Secondary circuit (heating circuit) Piping group heating circuit for System separation with high efficiency pump DN25-60 (EEI < 0.20), self-regulating Distance between spigots: 125mm	Boiler, Gas boiler	2072138	H40	1140.00
	Pipe assembly for heating circuit, DN40-50 For connecting a heating circuit to a boiler; nominal output range up to 210 kW consisting of: Wilo-Stratos high-efficiency pump (EEI < 0.20), electronically controlled, Overall length 220mm; 2 stopcocks with thermometer to display the flow and return temperature, return ball valve with integra- ted stop valve to prevent faulty circulation, pump ball valve, fill and drain valve in flow and return, connection on top Rp 2", con- nection on bottom G 2" AG; delivery head 8m; incl. design thermal insulation shells made of EPP Applicable in the range -10 °C to +110 °C. With integrated electronic capa- city control for constant/variable differential pressure. This piping group enables the heating line to be shut off on the flow and return side and the pump to be replaced when the system is full. Flow on the left. Flow and return can be changed individu- ally. Application area: $\Delta p = 110 \text{ mbar}$ at $V = 9,300 \text{ l/h}$; at $\Delta T = 10 \text{ K}$ up to 105 kW at $\Delta T = 15 \text{ K}$ up to 160 kW at $\Delta T = 20 \text{ K}$ up to 215 kW kvs-value: 29,4 Dimensions: W x H x D: 428 x 850 x 335mm centre distance: 180mm Distance between spigots: 180mm max. permissible operating pressure 10bar	MGK-2	2072049	H40	3490.00




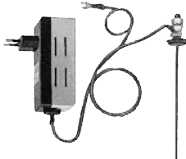


Accessories boilers

	Description	for product	Art. no.	DG	€
	Pipe assembly for circuit with mixer, DN40-50 For connecting a mixer circuit to a boiler; nominal output range up to 185 kW consisting of: Wilo-Stratos high-efficiency pump (EEI < 0.20), electronically controlled, Overall length 220mm; 2 stopcocks with thermometer to display the flow and return temperature, return ball valve with integrated stop valve to prevent faulty circulation, pump ball valve, fill and drain valve in flow and return, connection on top Rp 2", connection on bottom G 2" AG; delivery head 8m; incl. design thermal insulation shells made of EPP Applicable in the range -10 °C to +110 °C. With integrated electronic power control for constant/variable differential pressure Mixer/actuator: 230 V, 90° / 140 sec, 15 Nm, protection class II (double insulated), power input 2.5 W, cable connection length 2.2 m The piping group enables the heating line to be shut off on the flow and return side and the pump to be replaced when the system is full. Flow on the left. Flow and return can be changed individually. Application area: $\Delta p = 110 \text{ mbar at } V = 8,000 \text{ l/h;}$ at $\Delta T = 10K$ up to 90kW at $\Delta T = 15K$ up to 138kW at $\Delta T = 20K$ to 185kW kvs-value: 25,2 Dimensions: W x H x D: 428 x 850 x 335mm distance between sockets: 180 mm max. permissible operating pressure: 10bar	MGK-2	2072050	H40	4180.00
	 Plug-in module, Wilo-Stratos heating circuit pump For pipe assembly DN4-5 Functions: <u>Input for floating NC contact</u> <ul style="list-style-type: none"> • Contact closed: Pump running in control mode. • Contact open: Pump not running. <u>-1 V control input identified by:</u> <ul style="list-style-type: none"> • Remote set value adjustment: Differential pressure control on the pump is enabled. The set value for the differential pressure is determined by a -1 V analogue voltage. • Remote speed adjustment: Differential pressure control on the pump is disabled. The pump operates as an actuator with constant speed, which is determined by a voltage of -1 V. 	MGK-2	2745823	H40	238.00







	Description	for product	Art. no.	DG	€
	<p>Distributor DN 40-50 for 2 heating or mixing circuit</p> <p>DN40-50 for 2 heating or mixing circuits in compact design for the combination, resp. accommodation of 2 piping groups DN40-50, for the connection to a heating circuit or mixer circuit with a boiler; bottom flanges DN 80/PN 10; top flat sealing G 2" with union nut; drain connection 1/2" with plug; two console flanges; flow rate up to 18 m³/h</p> <p>consisting of: Distribution pipe made of steel black, primed, heat insulation shells made of polyurethane hard foam.</p> <p>kvs = 8800; 420 kW at $\Delta t = 20\text{ K}$ $\Delta p = 9\text{ mbar}$ at $V=18\text{ m}^3/\text{h}$ $\Delta p = 4\text{ mbar}$ at $V=10\text{ m}^3/\text{h}$ Dimensions: W x H x D: 860 x 220 x 300mm Distance between spigots 180mm max. permissible operating pressure 6bar</p>	MGK-2	2072061	H40	1400.00
	<p>Manifold</p> <p>DN40-50 for 3 heating or mixing circuits in compact design for the combination, resp. accommodation of 3 piping groups DN40-50, for connection to a heating circuit or mixer circuit with a boiler; bottom flanges DN 80/PN 10; top flat sealing G 2" with union nut; drain connection 1/2" with plug; two console flanges; flow rate up to 18 m³/h.</p> <p>consisting of: Distribution pipe made of steel black, primed, heat insulation shells made of polyurethane hard foam.</p> <p>kvs = 8800; 420 kW at $\Delta t = 20\text{ K}$ $\Delta p = 9\text{ mbar}$ at $V=18\text{ m}^3/\text{h}$ $\Delta p = 4\text{ mbar}$ at $V=10\text{ m}^3/\text{h}$ Dimensions: W x H x D: 1290 x 220 x 300mm Distance between spigots 180mm max. permissible operating pressure 6bar</p>	MGK-2	2072062	H40	1950.00
	<p>Upright support kit DN 40-50 for manifold</p> <p>infinitely adjustable in height.</p> <p>consisting of: two stand consoles, sound insulation panels and fixing material.</p> <p>materials:</p> <ul style="list-style-type: none"> • Stand console: galvanised steel; • Sound insulation board: foam rubber 	MGK-2	2072063	H40	241.00

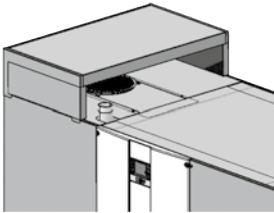

Accessories boilers

	Description	for product	Art. no.	DG	€
	3-way mixer				
	DN20, Kvs 6.3		2744673	H40	84.00
	DN25, Kvs 10		2744674	H40	91.00
	DN32, Kvs 16		2744675	H40	96.00
	DN40, Kvs 25		2744676	H40	137.00
	DN50, Kvs 40		2744677	H40	140.00
	4-way mixer				
	DN20, kvs 6,3		8908809	H40	109.00
	DN25, kvs 10		8908810	H40	112.00
	DN32, kvs 16		8908811	H40	120.00
	DN40, kvs 25		8908812	H40	170.00
	DN50, kvs 40		8908813	H40	202.00
	Mixer motor 230 V~/50 Hz, 6 Nm For 3-way mixing valve and 4-way mixing valve, fully wired, 120 sec, 90° DN20 - DN50	All boilers, gas heaters, BWL-1/BWS-1/BWW-1	2269715	H40	288.00
	Minimum pressure limiter (individually tested) Consisting of: Adjustable pressure limiter, pressure gauge, distributor tube and drain valve	All boilers	2400400	H40	830.00
	Maximum pressure limiter (individually tested) Consisting of: Adjustable safety pressure limiter (1.2-6 bar), pressure gauge, distributor tube and drain valve	All boilers	2400401	H40	860.00

	Description	for product	Art. no.	DG	€
	Maximum pressure limiter Setting range: 1 to 10 bar	MGK-2	2483283	H40	755.00
	Low water indicator (Individually tested)	All boilers	2791200	H40	235.00
	Impressed current anode	TS-160, TR-160, CGS-2	2483556	H46	285.00
	Impressed current anode For enamelled cylinder	SE-2, CSZ-2, SEM-1, SEM-2	2445000	H46	271.00
	Maximum thermostat For underfloor heating For switching off the heating circuit pump if the set temperature is exceeded.	boilers, gas heaters	2791905	H41	65.00
	Expansion vessels For heating systems 1.5 bar pre-charge pressure, 90°C flow temperature				
	25 l for heating systems up to 235 l		2400450	H40	105.00
	35 l for heating systems up to 320 l		2400455	H40	111.00
	50 l for heating systems up to 470 l		2400458	H40	144.00
	80 l for heating systems up to 750 l		2400462	H40	196.00
	100 l for heating systems up to 850 l		2400470	H40	387.00
	140 l for heating systems up to 1210 l		2400471	H40	458.00
	200 l Sizing according to heating system		2400472	H40	550.00

Accessories boilers

	Description	for product	Art. no.	DG	€
	Expansion vessels For heating systems 1.5 bar pre-charge pressure, 90°C flow temperature				
	Sizing according to heating system				
	250 l		2400473	H40	780.00
	300 l		2400481	H40	930.00
	400 l		2483708	H40	1250.00
	500 l		2483709	H40	1560.00
	600 l		2483713	H40	2375.00
	Connection kit for expansion vessel Consisting of: flexible corrugated stainless steel pipe (1 m long), threaded adaptors suitable for heat generator and expansion vessel.				
	Additionally with cap valve 3/4" – 25-50 l		2012080	H40	144.00
	Additionally with cap valve 1" – from 80 l		2012081	H40	203.00
	Expansion vessels for hot water, flow-through, operating pressure 10 bar, inlet pressure 4 bar, connection 3/4" external thread, incl. installation material.				
	Content 8 l up to 160 l		2400476	H40	287.00
	Content 12 l up to 200 l		2400477	H40	307.00
	Content 18 l up to 500 l		2400478	H40	329.00
	Note: Only in conjunction with diaphragm safety valve, 10 bar response pressure				
	DHW expansion vessel kit consisting of: Expansion tank 8 ltr. (4 bar inlet pressure, 10 bar operating pressure), piping cold water connection, 2 double nipples 3/4", shortening set 3/4"	TS-160, TS-160	8905747	H40	275.00
	Supply air filter To prevent burner contamination	MGK-2	8751390	H40	132.00
	Base casing For encasing the boiler plinth on all sides				
		MGK-2-390-630 MGK-2-800/1000	8751897 8752603	H40 H40	510.00 555.00

	Description	for product	Art. no.	DG	€
	Silencer hood For additional noise reduction of approx. 6 dB(A) in open flue operation				
		MGK-2-390-630	8752035	H40	930.00
		MGK-2-800/1000	8752679	H40	1015.00
	Connection kit fittings FOR PLATE HEAT EXCHANGER 1 set = 4 pce				
		Welding connection (St 52-3) 1"	SL32 - ... up to 120kW	2071945	H42 97.00
		Welding connection (St 52-3) 2"	up to 320kW	2071946	H42 187.00
		Welding connection (St 52-3) 2½"	up to 1020kW	2071947	H42 221.00
		Threaded connection (brass, male thread) 1"	up to 120kW	2071984	H42 97.00
		Threaded connection (brass, male thread) 2"	up to 320kW	2071985	H42 214.00
		Threaded connection (brass, male thread) 2½"	up to 1020kW	2071986	H42 254.00

Accessories boilers

Stainless steel plate heat exchanger for hydraulic separation incl. insulating hood and base fixing

consisting of:

- copper brazed plate heat exchanger
- Mounting set
- ISO insulation bonnet with aluminium sheet metal housing with mineral wool insulation and quick release fasteners

Design for temperature conditions

- primary 85°C/65°C
- Secondary 60°C/75°C
- max. operating pressure 10bar
- max. operating temperature 110°C



Output type kW	Height x Width m ²	Pressure drop primary / second- dary kPa	Connections primary	Art. no.	€	DG
15	313 × 113	3 / 6	G 1" / G 1"	2071884	485.00	H42
25	313 × 113	3 / 6	G 1" / G 1"	2071885	550.00	H42
35	313 × 113	3 / 6	G 1" / G 1"	2071886	635.00	H42
50	313 × 113	7 / 10	G 1" / G 1"	2071887	690.00	H42
75	313 × 113	7 / 10	G 1" / G 1"	2071888	735.00	H42
100	313 × 113	7 / 10	G 1" / G 1"	2071889	855.00	H42
120	313 × 113	8 / 14	G 1" / G 1"	2071890	990.00	H42



Output type kW	Height x Width m ²	Pressure drop primary / second- dary kPa	Connections primary	Art. no.	€	DG
200	616 × 191	12 / 19	G 2" / G 2"	2074841	2130.00	H42
280	616 × 191	12 / 19	G 2" / G 2"	2074842	2630.00	H42
320	616 × 191	12 / 19	G 2" / G 2"	2074843	2785.00	H42



Output type kW	Height x Width m ²	Pressure drop primary / second- dary kPa	Connections primary	Art. no.	€	DG
400	611 × 242	8,0 / 14	G 2½" / G 2½"	2071896	2995.00	H42
450	611 × 242	9,2 / 15	G 2½" / G 2½"	2071897	3535.00	H42
500	611 × 242	8,5 / 14,4	G 2½" / G 2½"	2071898	3785.00	H42
600	611 × 242	8,7 / 14,9	G 2½" / G 2½"	2071899	4675.00	H42
730	611 × 242	8,0 / 15,0	G 2½" / G 2½"	2071900	5320.00	H42
870	611 × 242	8,0 / 15,0	G 2½" / G 2½"	2071901	6330.00	H42
1020	611 × 242	8,9 / 14,4	G 2½" / G 2½"	2071902	6840.00	H42

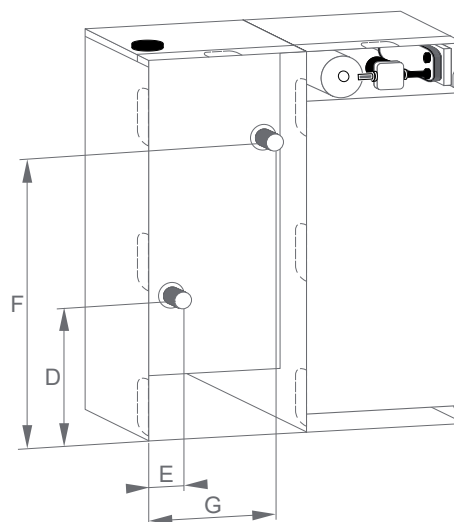
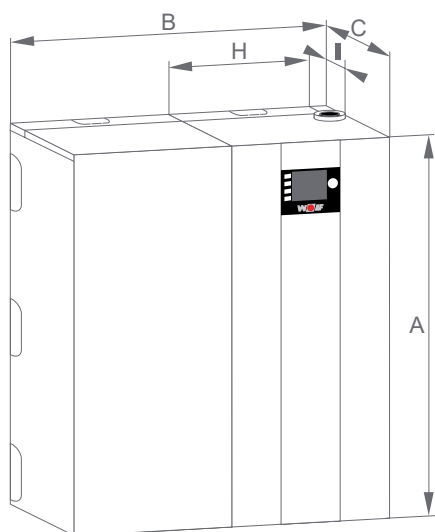


Output type kW	Height x Width m ²	Pressure drop primary / second- dary kPa	Connections primary	Art. no.	€	DG
1180	1180 × 474	8,5 / 14,0	DN 100 - PN 16 *	2071903	10905.00	H42

* Part no. 2071903 contains mating flanges (special flanges) as part of the standard delivery.

Technical data

Oil condensing boiler
TOB + storage tank



TYPE		TOB TOB-TS TOB-TR	18 - -	- 18 -	- - 18
Dimensions					
Height	A	mm	-	1290	1290
Width	B	mm	-	1132	1132
Depth	C	mm	-	605	605
Heating return	D	mm	-	426	426
Heating return	E	mm	-	194	194
Heating flow	F	mm	-	919	919
Heating flow	G	mm	-	516	516
Air/flue gas pipe diameter	H	mm	-	462	462
Air/flue gas pipe diameter	I	mm	-	203	203
Air/flue gas pipe diameter		mm	-	80/125	80/125
Air/flue gas duct		Typ	B23p, B33p, C33(x), C43(x), C53(x), C63(x), C83(x), C93(x)		
Heating flow/return Outer Ø		G	1½"	1½"	1½"
Condensate connection			1"	1"	1"
Weight					
Weight device		kg	92	92	92
Weight memory TS // TR		kg	-	76	76

Technical data

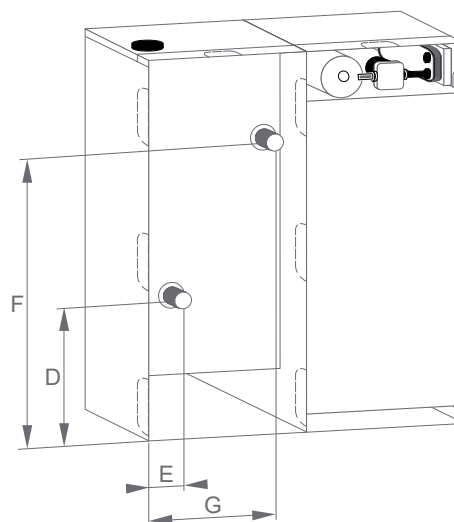
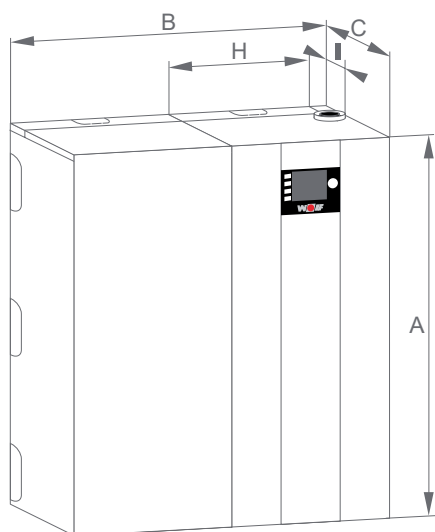
Oil condensing boiler TOB + storage tank

TYPE	TOB TOB-TS TOB-TR	18 - -	- 18 -	- - 18
Technical data				
Space heating energy efficiency class		A	A	A
Space heating energy efficiency η_s	%	93		
Energy efficiency class domestic hot water		-	A	A
Nominal heat output at 80/60 °C min/max	kW	6,3 / 17,7	6,3 / 17,7	6,3 / 17,7
Nominal heat output at 50/30 °C min/max	kW	6,6 / 18,6	6,6 / 18,6	6,6 / 18,6
Nominal load min/max	kW	6,4 / 18,1	6,4 / 18,1	6,4 / 18,1
Oil flow rate min/max	kg/h	0,53 / 1,52	0,53 / 1,52	0,53 / 1,52
Nominal capacity/equivalent nominal capacity of storage tank	L	-	160 / 200	152
Continuous storage tank capacity	kW / L/h	-	18 / 440	18 / 420
Performance index	NL60	-	4	1,9
Hot water output	L/10min	-	270	170
Standby energy consumption	kWh/24h	-	1,09	1,35
Fuel oil according to DIN 51603-1/6		Heating oil EL standard, heating oil EL low sulfur or bio oil B10		
Nozzle *		Steinen-WOLF 0.25 / 60° MST		
Heating oil filter		Opticlean 5 - 20 µm		
Pump pressure min. / max.	bar	3,5 / 23	3,5 / 23	3,5 / 23
Maximum vacuum in oil line	bar	0,3	0,3	0,3
Factory setting Flow temperature	°C	80	80	80
Max. Flow temperature	°C	90	90	90
Heating water resistance (at $\Delta t = 20K / 10K$).	mbar	7 / 20	7 / 20	7 / 20
Max. permissible boiler overpressure	bar	3	3	3
Water content of the heat exchanger	L	7,5	7,5	7,5
Standard efficiency at 40/30 °C (Hi / Hs)	%	105 / 99	105 / 99	105 / 99
Standard efficiency at 75/60 °C (Hi / Hs)	%	102 / 97	102 / 97	102 / 97
Efficiency at nominal load at 80/60°C (Hi / Hs)	%	98 / 92	98 / 92	98 / 92
Efficiency at 30% part load and TR=30°C (Hi / Hs)	%	105 / 99	105 / 99	105 / 99
Standby loss unit qB at 70 °C (EnEV)	%	0,75	0,75	0,75
Nominal heat load max.				
Exhaust gas mass flow	g/s	7,02	7,02	7,02
Exhaust gas temperature 50/30 - 80/60 °C	°C	44 - 61	44 - 61	44 - 61
Available blower discharge pressure	Pa	70	70	70
Minimum heat load min.				
Exhaust gas mass flow	g/s	2,44	2,44	2,44
Exhaust gas temperature 50/30 - 80/60 °C	°C	32 - 50	32 - 50	32 - 50
Available blower discharge pressure	Pa	20	20	20
Max. Condensate volume at 40/30°C		1,4	1,4	1,4
pH value of the condensate		ca. 3	ca. 3	ca. 3
Protection class	IP	IP20	IP20	IP20
Built-in fuse (medium time-lag)	A	4	4	4
Electrical power consumption part load/full load	W	23 / 101	23 / 101	23 / 101
Electrical power consumption standby	W	3	3	3
Electrical connection		1 ~ NPE / 230 VAC / 50 Hz / 10 A / B		
CE-Identnummer		CE-0085CO0305		

* with these nozzles the emission requirements according to the standard are fulfilled and reliable operation is guaranteed. Other nozzles are not permitted!

Technical data

Oil condensing boiler
COB-2 + storage tank



TYPE		COB-2 COB-2-TS COB-2-TR	15 15 15	20 20 20	29 29 29	40 - -
Dimensions						
Height	A	mm	1290	1290	1290	-
Width	B	mm	1132	1132	1132	-
Depth	C	mm	605	605	605	-
Heating return	D	mm	426	426	426	-
Heating return	E	mm	194	194	194	-
Heating flow	F	mm	919	919	919	-
Heating flow	G	mm	516	516	516	-
Air/flue gas pipe	H	mm	462	462	462	-
Air/flue gas pipe	I	mm	203	203	203	-
Air/flue gas pipe diameter		mm	80/125	80/125	80/125	110/160
Air/flue gas duct		Typ	B23p, B33p, C33(x), C43(x), C53(x), C63(x), C83(x), C93(x)			
Heating flow/return Outer Ø		G	1½"	1½"	1½"	1½"
Condensate connection			1"	1"	1"	1"
Weight						
Unit weight		kg	92	92	99	122
Weight of storage tank TS // TR		kg	76 // 76	76 // 76	76 // 76	-

Technical data

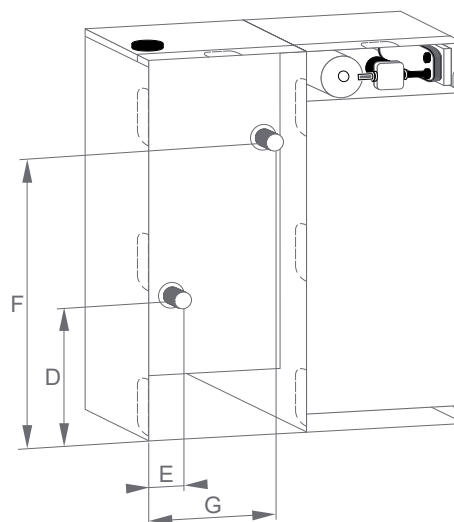
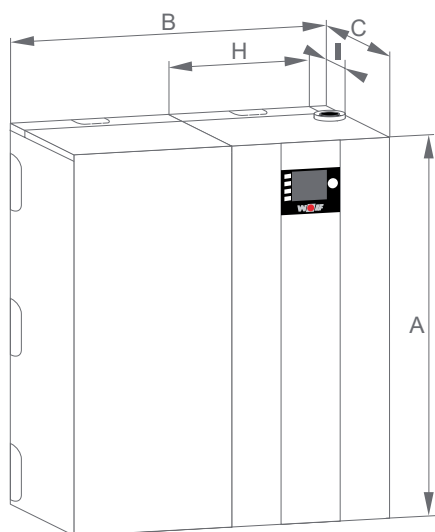
Oil condensing boiler COB-2 + storage tank

TYP	COB-2 COB-2-TS COB-2-TR	15 15 15	20 20 20	29 29 29	40 - -
Technical data					
Space heating energy efficiency class		A	A	A	A
Space heating energy efficiency η_s	%	92	92	93	93
Energy efficiency class domestic hot water		A	A	A	-
Nominal heat output at 80/60°C stage 1/2	kW	9,2 / 14,7	13,4 / 19,5	18,9 / 28,8	27,4 / 38,5
Nominal heat output at 50/30°C stage 1/2	kW	9,6 / 15,4	13,4 / 19,5	19,9 / 30,4	28,7 / 40,4
Nominal load stage 1/2	kW	9,2 / 14,7	13,5 / 19,6	19,0 / 29,0	27,5 / 38,7
Oil flow rate stage 1/2	kg/h	0,78 / 1,24	1,14 / 1,65	1,60 / 2,44	2,32 / 3,26
Nominal capacity* TS (equivalent) // TR	L	160 (200)//152	160 (200)//152	160 (200)//152	-
Duration of storage* TS // TR	kW / L/h	15/370//15/324	20/490//20/490	29/710//29/612	-
Performance index* TS // TR	NL60	3,5 // 1,7	4,5 // 2	5,0 // 2,2	-
Hot water output* TS // TR	L/10min	250 // 162	280 // 180	300 // 182	-
Standby consumption* TS // TR	kWh/24h	1,09 // 1,35	1,09 // 1,35	1,09 // 1,35	-
Max. permissible cold water connection pressure* TS // TR	bar	10 // 10	10 // 10	10 // 10	-
Minimum anode current Magnesium protective anode*	mA	> 0,3	> 0,3	> 0,3	-
Fuel oil according to DIN 51603-1/6		Heating oil EL standard, heating oil EL low sulfur or bio oil B10			
Nozzle	Danfoss	0,30 / 80° S	0,35 / 60° S	0,45 / 80° S	0,55 / 80° S
Fuel oil filter		Siku max. 40µm			
Pump pressure stage 1/2	bar	5 / 13,5	8,5 / 17	9,8 / 24	14 / 25
Maximum vacuum in oil line	bar	-0,3	-0,3	-0,3	-0,3
Factory setting Flow temperature	°C	80	80	80	80
Max. Flow temperature	°C	90	90	90	90
Heating water resistance at $\Delta T=20K / 10K$	mbar	3,6 / 12	6 / 21	17 / 55	54 / 205
Max. permissible boiler overpressure	bar	3	3	3	3
Water content of the heat exchanger	L	7,5	7,5	9	11,5
Standard efficiency at 40/30 °C (Hi / Hs)	%	105 / 99	105 / 99	105 / 99	104 / 98
Standard efficiency at 75/60 °C (Hi / Hs)	%	100 / 95	101 / 96	101 / 96	98 / 93
Efficiency at nominal load at 80/60°C (Hi / Hs)	%	99,7 / 94,1	99,5 / 93,9	99,6 / 94,0	99,5 / 93,9
Efficiency at 30% part load, TR=30°C (Hi / Hs)	%	104,7 / 98,8	104,1 / 98,2	104,7 / 98,8	104,3 / 98,4
Standby rel. Boiler q_B at 70 °C (EnEV)	%	0,75	0,75	0,55	0,45
Exhaust gas mass flow stage 2	g/s	6,45	9,06	13,33	17,51
Exhaust gas temperature 50/30 - 80/60 °C stage 2	°C	40 - 63	49 - 69	55 - 76	56 - 83
Available delivery pressure of blower stage 2	°C	65	65	105	150
Exhaust gas mass flow rate Stage 1	Pa	4,04	6,28	9,05	10,91
Exhaust gas temperature 50/30 - 80/60 °C Stage 1	g/s	35 - 55	40 - 61	40 - 64	43 - 68
Available blower pressure stage 1	°C	32	45	55	72
Condensate volume at 40/30 °C	L/h	1,2	1,6	2,2	2,8
pH value of the condensate		ca. 3	ca. 3	ca. 3	ca. 3
Electrical connection	V~/Hz	230/50	230/50	230/50	230/50
Built-in fuse (medium time-lag)	A	4	4	4	4
Electr. power consumption stage 1 / stage 2	W	88 / 128	92 / 128	111 / 176	127 / 209
Protection class		IP20	IP20	IP20	IP20
CE identification number		CE-0085CT0160			

* Only for oil condensing boilers with TS / TR storage tank

Technical data

Gas condensing boiler
TGB-2 + storage tank



TYPE		TGB TGB-TS TGB-TR	20 20 20	30 30 30	40 40 40
Dimensions					
Height	A	mm	1290	1290	1290
Width	B	mm	1132	1132	1132
Depth	C	mm	605	605	605
Heating return	D	mm	426	426	426
Heating return	E	mm	194	194	194
Heating flow	F	mm	919	919	919
Heating flow	G	mm	516	516	516
Air/flue gas pipe diameter	H	mm	462	462	462
Air/flue gas pipe diameter	I	mm	203	203	203
Air/flue gas pipe diameter		mm	80/125	80/125	80/125
Heating flow/return Outer Ø		G	1½"	1½"	1½"
Condensate connection		G	1"	1"	1"
Gas connection		R	½"	½"	½"
Weight					
Weight of unit		kg	100	100	100
Weight storage tank TS // TR		kg	76	76	76

Technical data

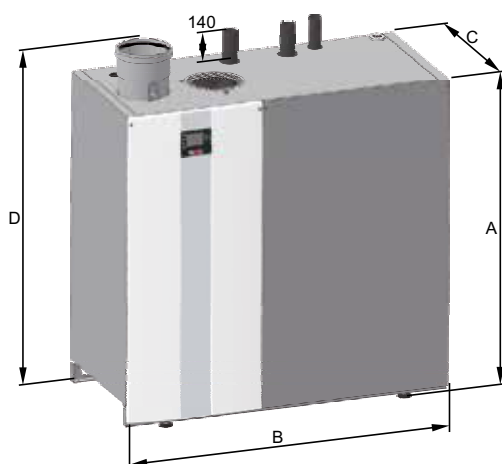
Gas condensing boiler TGB-2 + storage tank

TYPE	TGB TGB-TS TGB-TR	20 20 20	30 30 30	40 40 40
Technical Data				
Space heating energy efficiency class		A	A	A
Space heating energy efficiency η_s	%	94	94	94
Nominal heat output at 80/60°C	kW	17	26,9	35,7
Nominal heat load at 50/30°C	kW	19,6	30,2	40,5
Nominal heat load	kW	17,7	28,2	
Lowest heat output (mod. at 80/60):				
Natural gas	kW	2,9	5,0	6,1
Liquid gas	kW	4,6	4,6	6,1
Smallest heat output (mod. at 50/30):				
Natural gas	kW	3,3	5,8	7,4
Liquid gas	kW	5,3	5,3	7,4
Smallest heat output (modulating):				
Natural gas	kW	3,0	5,4	6,7
Liquid gas	kW	5,0	5,0	6,7
Air/flue gas ducting	Typ	B23, B33, C13(x), C33(x), C43(x), C53(x), C63(x), C83(x), C93(x)		
Gas category	DE / AT	II2ELL3P, II2N3P / I2H		
Gas connection value:				
Natural gas E/H ($H_i=9,5\text{kWh/m}^3=34,2\text{MJ/m}^3$)	m ³ /h	1,86	2,97	4,00
Natural gas LL ($H_i=8,6\text{kWh/m}^3=31,0\text{MJ/m}^3$) ¹⁾	m ³ /h	2,06	3,28	4,43
Liquid gas P ($H_i=12,8\text{kWh/kg}=46,1\text{MJ/kg}$)	kg/h	1,46	2,16	3,14
Gas connection pressure natural gas (min-max permissible)	mbar	20 (17-25)		
Gas connection pressure liquid gas (min-max permissible)	mbar	50 (42,5-57,5)		
Efficiency at nominal load at 80/60°C (H_i/H_s)	%	100/90	100/90	100/90
Efficiency at 30% part load and TR=30°C (H_i/H_s)	%	110/100	110/100	110/100
Flow temperature factory setting	°C	80		
Flow temperature up to approx.	°C	90		
max. total overpressure	bar/MPa	3,0/0,3		
Hot water content of the	Ltr.	7,5		
Heating water heat exchanger	°C	63-37	68-45	72-50
Exhaust gas temperature 80/60-50/30 at Q _{max}	°C	57-30	58-32	59-34
Exhaust gas temperature 80/60-50/30 at Q _{min}	g/s	8	12,6	15,9
Exhaust gas mass flow at Q _{max}	g/s	1,4	2,5	2,8
exhaust gas mass flow at Q _{min}	Pa	105	115	109
Available delivery pressure of the	Pa	13	7	72
gas blower at Q _{max}		6		
Available delivery pressure of the	Ltr./h	2,6	4,2	5,8
gas blower at Q _{min}		4		
NO _x class	W	3		
amount of condensate at 40/30°C	W	37	40	49
pH value of condensate	IP	IP 20		
Electrical power consumption standby		230V / 50Hz		
Electrical power consumption maximum		CE-0085DL0121		
Protection class				
Electrical connection/fuse protection				
CE identification number				

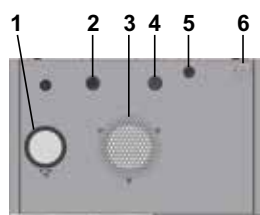
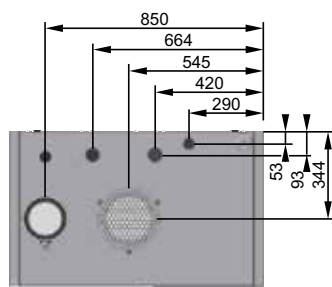
¹⁾ Does not apply to Austria

Technical data

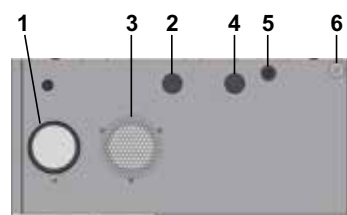
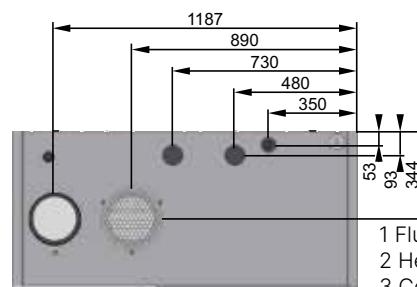
Gas condensing boiler MGK-2-130-300



MGK-2-130



MGK-2-170/210/250/300



- 1 Flue gas pipe connection
- 2 Heating flow
- 3 Combustion air supply
- 4 Heating return
- 5 Gas connection
- 6 Cable feed

TYPE		MGK-2	130	170	210	250	300
Dimensions							
Height	A	mm	1300	1300	1300	1300	1300
Width	B	mm	995	995	995	995	995
Depth	C	mm	640	640	640	640	640
Total height	D	mm	1510	1510	1510	1510	1510
Exhaust pipe diameter		mm	160	160	160	160	200
Combustion air supply 4)		mm	160	160	160	160	160
Heating flow outer diameter		R	1½"	2"	2"	2"	2"
Heating return outer diameter		R	1½"	2"	2"	2"	2"
Gas connection		R	1"	1½"	1½"	1½"	1½"
Weight							
Weight		kg	195	250	271	292	313

Technical data

Gas condensing boiler MGK-2-130-300

TYPE	MGK-2	130	170	210	250	300
Technical Data						
Nominal heat output at 80/60°C	kW	117	156	194	235	275
Nominal heat output at 50/30°C	kW	126	167	208	250	294
Nominal heat load	kW	120	160	200	240	280
Cl. heat output (modul.) at 80/60°C	kW	23	27	34	39	45
Cl. heat output (modul.) at 50/30°C	kW	24	30	37	44	49
Cl. heat load (modulating)	kW	23	28	35	41	46
Modulation range Load	%	19-100	17-100	17-100	17-100	17-100
Efficiency						
η 80/60 at Qmax	%	98,1	98	98,1	98	98
η 50/30 at Qmax	%	104,1	104,2	104,3	103,9	105,2
η TR30 at 30%	%	107,8	106,9	106,7	106,7	106,8
Air/flue gas flow	Typ	B23(P), B33, C33(x), C43(x), C53(x), C63(x), C83, C93(x)				
Gas category						
Germany		II _{2ELL3P}	II _{2ELL3P}	II _{2ELL3P}	II _{2ELL3P}	II _{2ELL3P}
Austria		II _{2H3P}	II _{2H3P}	II _{2H3P}	II _{2H3P}	II _{2H3P}
Switzerland		I _{2H}	I _{2H}	I _{2H}	I _{2H}	I _{2H}
Gas connection value:						
Natural gas E/H (Hi = 9.5 kWh/m ³ = 34.2 MJ/m ³)	m ³ /h	13,1	16,8	21	25,2	29,4
Natural gas LL (Hi = 8,6 kWh/m ³ = 31,0 MJ/m ³) 1)	m ³ /h	14,6	18,6	23,3	27,9	32,6
Liquid gas P (Hi = 12.8 kWh/kg = 46.1 MJ/kg) 2)	kg/h	9,7	12,5	15,6	18,7	21,8
Gas connection pressure:						
Natural gas E/LL	mbar	20	20	20	20	20
Liquid gas P	mbar	50	50	50	50	50
Water content of heating water heat exchanger	Ltr.	12	15,4	16	20	22
max. permissible boiler overpressure	bar	6	6	6	6	6
max. permissible flow temperature	°C	90	90	90	90	90
available delivery pressure of the gas blower	Pa	30-200	30-150	30-150	30-150	30-150
flue gas temperature 80/60-50/30 at Qmax	°C	65-45	65-45	65-45	65-45	65-45
flue gas temperature 80/60-50/30 at Qmin	°C	55-35	55-35	55-35	55-35	55-35
exhaust gas mass flow min/max	g/s	9,9-56,7	12,1-72,6	15,0-90,8	17,7-108,9	19,8-127,1
Exhaust gas valve group according to DVGW G 635		G52	G52	G52	G52	G52
NOx - class		6	6	6	6	6
Heating water resistance at 20K spread	mbar	95	100	115	135	160
Electrical connection	V~/Hz	1~ NPE / 230VAC / 50Hz				
Built-in fuse (medium time-lag)	A	4	4	4	4	4
Electrical power consumption in standby	W	5	5	5	5	5
Electrical power consumption at part load/ full load	W	30 / 240	42 / 258	42 / 291	43 / 326	48 / 350
Protection class		IP20	IP20	IP20	IP20	IP20
Sound pressure level at full load 3)	Ltr./h	~ 49	~ 54	~ 54	~ 54	~ 54
Condensate water volume at 40/30°C		ca. 4,0	ca. 4,0	ca. 4,0	ca. 4,0	ca. 4,0
ph-value of condensate		CE-0085CN0326				
CE identification number						

¹⁾ does not apply to Austria / Switzerland

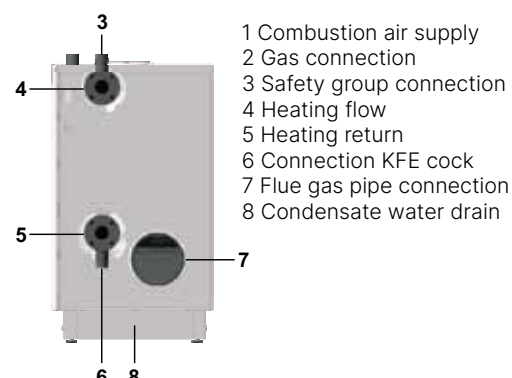
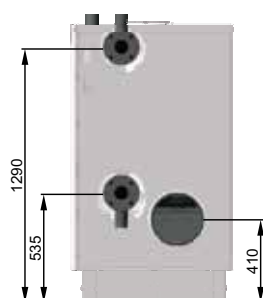
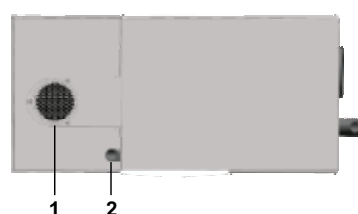
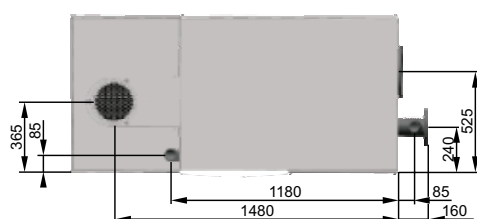
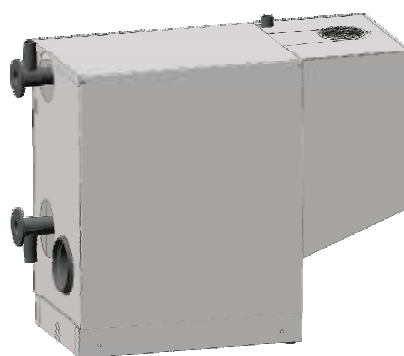
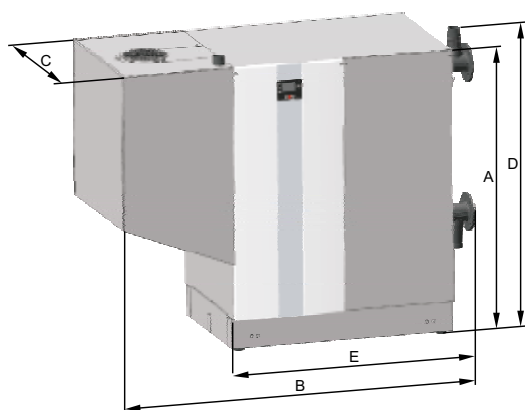
²⁾ not valid for Switzerland

³⁾ at 1m distance in free field

⁴⁾ for room air independent operation with accessory adapter

Technische Daten

Gas condensing boiler
MGK-2-390/470/550/630



- 1 Combustion air supply
- 2 Gas connection
- 3 Safety group connection
- 4 Heating flow
- 5 Heating return
- 6 Connection KFE cock
- 7 Flue gas pipe connection
- 8 Condensate water drain

TYPE		MGK-2	390	470	550	630
Dimensions						
Height	A	mm	1420	1420	1420	1420
Width	B	mm	1860	1860	1860	1860
Depth	C	mm	850	850	850	850
Depth without cladding	C	mm	790	790	790	790
Total height	D	mm	1460	1460	1460	1460
Width without gas-air compound	E	mm	1295	1295	1295	1295
Combustion air supply 4)		mm	200	200	200	200
Heating flow outer diameter		DN	80 PN6	80 PN6	80 PN6	80 PN6
Heating return outer diameter		DN	80 PN6	80 PN6	80 PN6	80 PN6
Gas connection		R	2"	2"	2"	2"
Weight						
Weight		kg	390	420	450	480

Technical data

Gas condensing boiler MGK-2-390/470/550/630

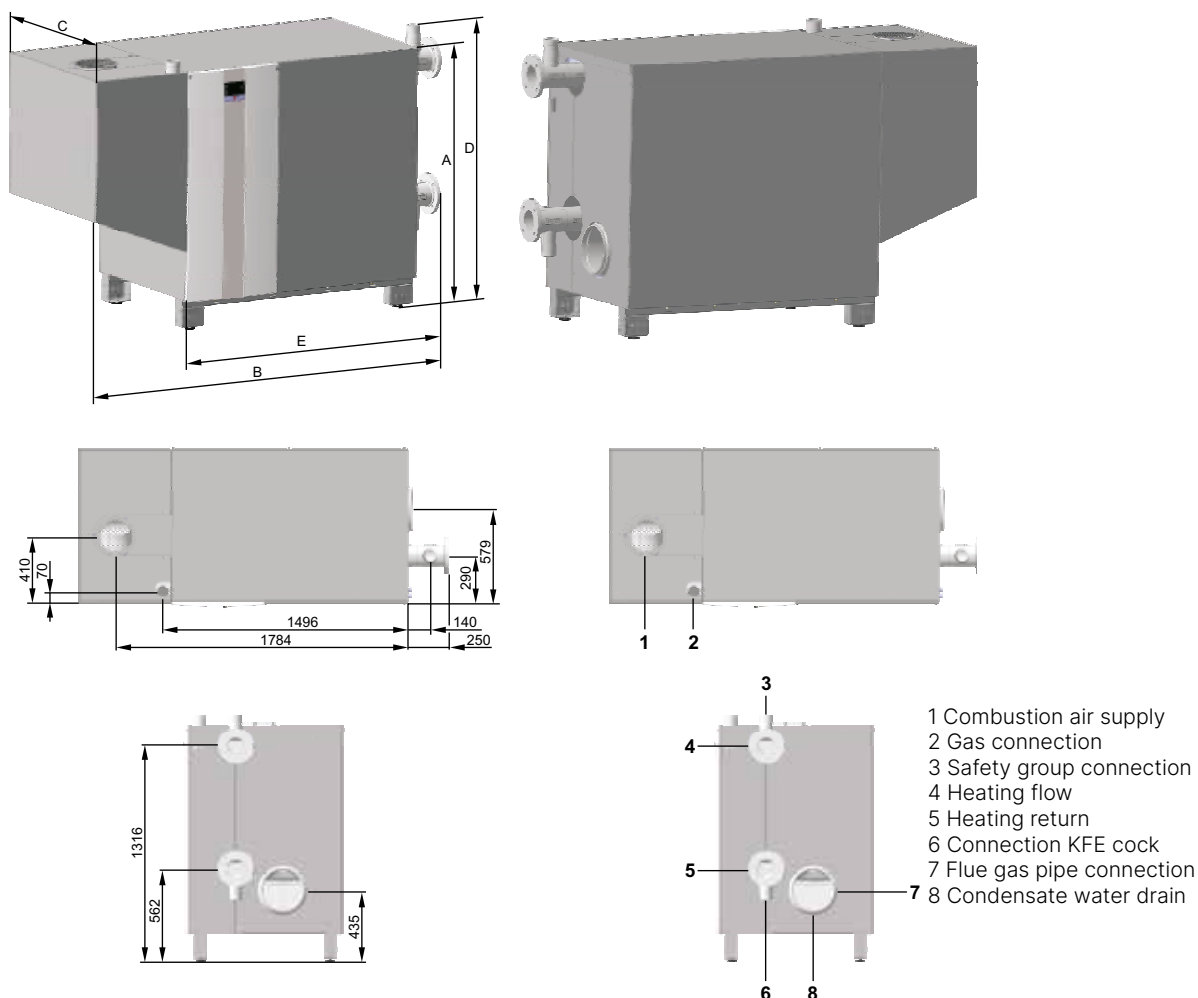
TYPE	MGK-2	390	470	550	630
Technical Data					
Nominal heat output at 80/60°C	kW	366,7	434,7	511,6	584,4
Nominal heat output at 50/30°C	kW	392	467,1	549,3	626,6
Nominal heat load	kW	371,2	443,6	521	593,9
Cl. heat output (modul.) at 80/60°C	kW	58,5	70,7	84,5	96,7
Cl. heat output (modul.) at 50/30°C	kW	64,2	78,7	94	106,8
Cl. heat load (modulating)	kW	59,5	73,2	86,8	98,5
Modulation range Load	%	17-100	17-100	17-100	17-100
Efficiency					
η 80/60 at Qmax	%	98,8	98	98,2	98,4
η 50/30 at Qmax	%	105,6	105,3	105,4	105,5
η TR30 at 30%	%	107,8	108,9	108,6	107,6
Air/flue gas flow	Typ	B23, B23P, C33, C43, C53, C63, C83, C93			
Gas connection value:					
Natural gas E/H (Hi = 9.5 kWh/m³ = 34.2 MJ/m 3)	m³/h	39,1	46,7	54,8	62,5
Natural gas LL (Hi = 8.6 kWh/m³ = 31.0 MJ/m³) 1)	m³/h	43,2	51,6	60,6	69,1
Gas connection pressure: Natural gas E/H/LL	mbar	20	20	20	20
Gas connection pressure:					
Natural gas E/H/LL	mbar	20	20	20	20
Water content of heating water heat exchanger	Ltr.	50	56	62	68
max. permissible boiler overpressure	bar	6	6	6	6
max. permissible flow temperature	°C	90	90	90	90
available delivery pressure of the gas blower	Pa	30-150	30-150	30-150	30-150
standstill losses overtemperature 30 / 50K	%	0,11 / 0,18	0,10 / 0,17	0,09 / 0,15	0,09 / 0,14
flue gas temperature 80/60-50/30 at Qmax	°C	65-35	65-35	65-35	65-35
flue gas temperature 80/60-50/30 at Qmin	°C	60-30	60-30	60-30	60-30
Exhaust gas mass flow min/max	g/s	25,6-156,3	31,5-185,2	37,4-225,3	92,4-247,4
Exhaust gas value group according to DVGW G 635		G 52	G 52	G 52	G 52
NOx - class		6	6	6	6
Heating water resistance at 20K spread	mbar	120	113	126	118
Electrical connection Fuse protection	V~/Hz	1~ NPE / 230VAC / 50Hz / 10A/B alternativ: 3~ NPE / 400VAC / 50Hz / 10A/B			
Output heating circuit pump / ZHP fuse protec- tion	V~/Hz	1~ NPE / 230VAC / 50Hz / 4A alternativ: 3~ NPE / 400VAC / 50Hz / 4A			
Electrical power consumption in standby	W	8	8	8	8
Electrical power consumption at partial load/ full load	W	42 - 410	45 - 490	48 - 580	50 - 660
Protection		IP20	IP20	IP20	IP20
Protection	dB(A)				
Sound pressure level at full load 3)	dB(A)	61	66	68	68
Sound power level according to DIN EN 15036 part 1, independent of room air	dB(A)	44	49	50	50
Sound pressure level 1 m in front of MGK-2, room air independent 2)	dB(A)	78	82	84	84
Sound pressure level 1 m in front of MGK-2, room air independent 2)	kg	60	64	65	65
Sound power level according to DIN EN 15036 part 1, room air dependent	Ltr./h				
Sound power level according to DIN EN 15036 part 1, room air dependent		39	46	52	59
Sound pressure level 1 m in front of MGK-2, room air dependent 2)		ca. 4,0	ca. 4,0	ca. 4,0	ca. 4,0
Sound pressure level 1 m in front of MGK-2, room air dependent 2)		CE-0085CN0326			
Total weight (empty)					
amount of condensate at 40/30°C					
ph-value of condensate					
CE identification number					

¹⁾ not valid for Austria / Switzerland

²⁾ depending on the boundary conditions of the system such as: Type/design of the flue gas system, size and condition of the installation room.

Technical data

Gas condensing boiler MGK-2-800/1000



TYPE		MGK-2	800	1000
Dimensions				
Height	A	mm	1460	1460
Width	B	mm	2015	2015
Depth	C	mm	970	970
Depth without cladding	C	mm	850	850
Total height	D	mm	790	790
Width without gas-air compound	E	mm	1295	1295
Exhaust pipe diameter		mm	250	250
Combustion air supply		mm	200	200
Heating flow outer diameter		DN	100 PN6	100 PN6
Heating return outer diameter		DN	100 PN6	100 PN6
Gas connection		R	2,5"	2,5
Weight				
Weight		kg	625	680

Technische Daten

Gas condensing boiler MGK-2-800/1000

TYPE	MGK-2	800	1000
Technische Daten			
Nominal heat output at 80/60°C	kW	700	931
Nominal heat output at 50/30°C	kW	752	1000
Nominal heat load	kW	710	942
Cl. heat output (modul.) at 80/60°C	kW	119	157
Cl. heat output (modul.) at 50/30°C	kW	133	174
Cl. heat load (modulating)	kW	122	160
Modulation range Load	kW	17-100	17-100
Efficiency			
80/60 at Qmax	%	98,7	98,7
50/30 at Qmax	%	106,0	106,0
TR30 at 30%	%	108,8	108,8
Gas category			
Germany		I _{2ELL}	I _{2ELL}
Austria / Switzerland		I _{2H}	I _{2H}
Air/flue gas flow	Typ	B23, B23P, C43, C53, C63, C83, C93	
Gas connection value:			
Natural gas E/H (Hi = 9.5 kWh/m ³ = 34.2 MJ/m ³)	m ³ /h		99,5
Natural gas LL (Hi = 8,6 kWh/m ³ = 31,0 MJ/m ³) 1)	m ³ /h	80,3	106,6
Gas connection pressure: natural gas E/H/LL	mbar	20	20
Water content of heating water heat exchanger	Ltr.	80,6	92,6
max. permissible boiler overpressure	bar	6	6
max. permissible flow temperature	°C	90	90
available delivery pressure of gas blower	Pa	30-200	30-250
standstill losses overtemperature 30 / 50K	%	0,08/0,13	0,06/0,10
flue gas temperature 80/60-50/30 at Qmax	°C	65-42	65-40
flue gas temperature 80/60-50/30 at Qmin	°C	62-32	62,32
Exhaust gas mass flow min/max	g/s	53-307	69-407
Exhaust gas value group according to DVGW G 635		G52	G52
NOx - class		6	6
Heating water resistance at 20K spread	mbar	127	123
Electrical connection	V~/Hz	3 ~NPE/400 VAC/50 Hz	
Output heating circuit pump / ZHP Fuse protection	V~/Hz	1~NPE/230 VAC/50Hz/7A	
		alternativ: 3~NPE/400VAC/50Hz/7A	
Electrical power consumption (part load / full load)	W	50/850	60-1835
Electrical power consumption in standby	W	8	11
Protection class		IP20	IP20
Sound power according to DIN EN 15036 part 1, ambient air-independent	dB(A)	67,7	73,3
Sound pressure level 1 m in front of MGK-2, ambient air-independent 2)	dB(A)	65-70	70-75
Sound power level acc. to DIN EN 15036 part 1, room-air-dep.	dB(A)	85,1	83,5
Sound pressure level 1 m before MGK-2, room air dependent 2)	dB(A)	82-87	80-85
		77	93
amount of condensate at 40/30°C		ca. 4,0	ca. 4,0
		CE-0085CN0326	

¹⁾ not valid for Austria / Switzerland

²⁾ depending on the boundary conditions of the system such as: Type/design of the flue gas system, size and condition of the installation room.

Technical data

WOLF

Wall-mounted gas boilers

Gas condensing boilers up to 55kW		Page 52
CGB-2(K)	ComfortLine gas condensing boiler / Combi boiler	Page 52
CGW-2	ComfortLine gas condensing boiler with hot water stratified tank wall-mounted	Page 53
CGS-2L	ComfortLine gas condensing boiler with hot water stratified tank	Page 54
CGS-2R	ComfortLine gas condensing boiler with hot water coil storage tank	Page 55
CSZ-2	ComfortLine Gasbrennwert-Heiztherme	Page 56
CSGB-2-38/55	ComfortLine gas condensing solar central unit in mo- dular design	Page 57
CGB-2-75/100		Page 58
Control/control accessories up to 100kW		Page 59
Gas boilers		Page 64
CGU-2(K)	ComfortLine gas calorific value heating boiler / Combi boiler	Page 64
Regulation/Control accessories		Page 65
Storage		Page 69
CSW	ComfortLine water heater made of steel with enamel coating	Page 69
Accessories gas heaters		Page 70
Technische Daten		Page 98



CGB-2(K) ComfortLine wall mounted gas condensing boiler / combi boiler



DG | H10

TYPE	CGB-2	14	20	24
	CGB-2K		20	24
Energy efficiency class				
Space heating medium temperature	A+++ → D	A	A	A
Energy efficiency class Water heating			A	A
Raumheizungs-Energieeffizienz η_s	%	93	93	93
Power range of heating at 80/60°C	kW	1,8 – 13,5	3,8 – 18,9	4,8 – 23,8
Power range of heating at 50/30°C	kW	2,1 – 15,2	4,4 – 20,4	5,6 – 25,8
Power range of hot water generation	kW	1,8 – 13,5	3,8 – 22,2	4,8 – 27,1
Tapping code		-	XL	XL
Dimensions				
height	mm	790	790	790
width	mm	440	440	440
depth	mm	378	378	378
Weight	CGB-2	kg	33	33
Weight	CGB-2K	kg	37	37
EC identification number			CE-0085C00098	
CGB-2	Art. no.	8615008	8615009	8615010
	€	3720.00	3860.00	3980.00
CGB-2K	Art. no.		8615011	8615012
	€		4735.00	4855.00

- Wall mounted gas condensing boilers, sealed combustion chambers, for open flue and room sealed operation
- Standard seasonal efficiency [to DIN] up to 110 % (net cv) / 99 % (gross cv)
- Premix burner for natural gas E, LL and LPG, variable modulating heating output from 1.8 kW
- As standard with expansion vessel, modulating high efficiency pump (EEI < 0.23) and 3-way-valve
- No overflow valve, no return temperature raising required to provide superior condensing efficiency
- Efficient combustion technology via gas adaptive, self-calibrating combustion control with automatic adaptation to the gas quality (e.g. biogas)
- Automatic CO₂ adjustment via self-calibrating combustion air control for extremely low pollutant emissions
- „ALUPro“ coated heating water heat exchanger from WOLF
- Hybrid+: Can be intelligently combined with WOLF heat pumps



CGW-2 ComfortLine gas condensing centre with DHW stratification cylinder wall mounted



DG | H10

TYPE	CGW-2	14/100L	20/120L	24/140L
Energy efficiency class				
Space heating medium temperature	A+++ → D	A	A	A
Energy efficiency class Water heating	A+ → F	A	A	A
Raumheizungs-Energieeffizienz η_s	%	93	93	93
Power range of heating at 80/60°C	kW	1,8 – 13,5	3,8 – 18,9	4,8 – 23,8
Power range of heating at 50/30°C	kW	2,1 – 15,2	4,4 – 20,4	5,6 – 25,8
Power range of hot water generation	kW	1,8 – 13,5	3,8 – 22,2	4,8 – 27,1
Tapping code		L	XL	XL
Dimensions				
height	mm	790	790	790
width	mm	800	800	800
depth	mm	378	378	378
Weight	kg	54	54	54
EC identification number			CE-0085C00098	
CGW-2	Art. no.	8615019	8615020	8615021
	€	5975.00	6115.00	6235.00

- Wall mounted gas condensing centre consisting of a wall mounted gas condensing boiler with stainless steel DHW heat exchanger and stainless steel DHW stratification cylinder in a modular design
- Integral and convenient DHW heating – better than a DHW cylinder (with indirect coil) with 100, 120 or 140 l capacity
- „DHW turbo“ with a stainless steel routing and distribution system for hot and cold water ensures steady, radial water distribution and excellent DHW output (European patent pending)
- With the CGW-2-14/100L, filling a bath tub with around 140 l of water at 40 °C takes only 10 minutes
- High savings in operating costs through efficient DHW heating and innovative insulation technology with integrated annular gap system (utility model protection)
- Controlled cylinder heating for optimum energy efficiency through the effective utilisation of condensing technology (European patent granted)
- Gas condensing centre, fully wired and ready to connect to the water system



CGS-2L

ComfortLine gas condensing centre with DHW stratification cylinder



DG | H10

TYPE	CGS-2L	14/120L	20/160L	24/200L
Energy efficiency class				
Space heating medium temperature	A+++ → D	A	A	A
Energy efficiency class Water heating	A+ → F	A	A	A
Raumheizungs-Energieeffizienz η_s	%	93	93	93
Power range of heating at 80/60°C	kW	1,8 – 13,5	3,8 – 18,9	4,8 – 23,8
Power range of heating at 50/30°C	kW	2,1 – 15,2	4,4 – 20,4	5,6 – 25,8
Power range of hot water generation	kW	1,8 – 13,5	3,8 – 22,2	4,8 – 27,1
Tapping code		XL	XL	XL
Dimensions				
height	mm	1462	1462	1462
width	mm	600	600	600
depth	mm	635	635	635
Weight	kg	82	82	82
EC identification number			CE-0085C000098	
CGS-2L	Art. no.	8615013	8615015	8615017
	€	6050.00	6190.00	6310.00

- The „Turbostop system“ provides convenient DHW heating inside the stratification cylinder – better than a DHW cylinder (with indirect coil) with 120, 160 or 200 l capacity
- Controlled cylinder heating for optimum energy efficiency through the effective utilisation of condensing technology (European patent granted)
- With the CGS-2-20/160L, filling a bath tub with around 230 l of water at 40 °C only takes 10 minutes; with the CGS-2-14/120L, 190 l at 40 °C is possible
- High performance factor $N_L = 1.3$ or 2.5 when heating from 10 °C to 60 °C
- Minimum heat losses due to highly efficient insulation technology – only 1.0 kWh standby loss in 24 hours
- Compact design as condensing boiler with stratification cylinder. Can be split easily into two modules weighing 35 kg and 80 kg for straightforward installation



CGS-2R

ComfortLine gas condensing centre with DHW cylinder with internal indirect coil



DG | H10

TYPE	CGS-2R	14/150R	20/150R	24/150R
Energy efficiency class				
Space heating medium temperature	A+++ → D	A	A	A
Energy efficiency class Water heating	A+ → F	A	A	A
Raumheizungs-Energieeffizienz η_s	%	93	93	93
Power range of heating at 80/60°C	kW	1,8 – 13,5	3,8 – 18,9	4,8 – 23,8
Power range of heating at 50/30°C	kW	2,1 – 15,2	4,4 – 20,4	5,6 – 25,8
Power range of hot water generation	kW	1,8 – 13,5	3,8 – 22,2	4,8 – 27,1
Tapping code		XL	XL	XL
Dimensions				
height	mm	1792	1792	1792
width	mm	600	600	600
depth	mm	635	635	635
Weight	kg	115	115	115
EC identification number			CE-0085CO0098	
CGS-2R	Art. no.	8615014	8615016	8615018
	€	5970.00	6130.00	6250.00

- Controlled cylinder heating for optimum energy efficiency through the effective utilisation of condensing technology (European patent granted)
- With the CGS-2-20/150R, filling a bath tub with around 230 l of water at 40 °C takes only 10 minutes; with the CGS-2-14/150R, approx. 210 l at 40 °C is possible
- High performance factor $N_L = 1.4$ or 1.8 when heating from 10 °C to 60 °C
- Minimum heat losses due to highly efficient insulation technology – only 1.47 kWh standby loss in 24 hours
- Compact design as condensing boiler with cylinder with internal indirect coil. Can be split easily into two modules weighing 35 kg and 80 kg for straightforward installation
- Cylinder heating via robust internal indirect coil with generously sized heat exchanger surface area for short heat-up times



CSZ-2

ComfortLine gas condensing solar centre in modular design



DG | H10

TYPE	CSZ-2	14/300R	20/300R	24/300R
Energy efficiency class				
Space heating medium temperature	A+++ → D	A	A	A
Energy efficiency class Water heating	A+ → F	A	A	A
Raumheizungs-Energieeffizienz η _S	%	93	93	93
Power range of heating at 80/60°C	kW	1,8 – 13,5	3,8 – 18,9	4,8 – 23,8
Power range of heating at 50/30°C	kW	2,1 – 15,2	4,4 – 20,4	6,6 – 25,8
Power range of hot water generation	kW	1,8 – 1,5	3,8 – 22,2	4,8 – 27,1
Tapping code		XL	XL	XL
Cylinder capacity	l	285	285	285
Dimensions				
height	mm	1850	1850	1850
width	mm	600	600	600
depth	mm	1013	1013	1013
Gewicht				
Installed weight of CSZ-2 (filled with water)	kg	583	583	583
Weight of gas condensing boiler	kg	125	125	125
Weight Gas condensing boiler	kg	35	35	35
EC identification number		CE-0085C00098		
CSZ-2	Art. no.	7701552	7701553	7701554
	€	8160.00	8300.00	8420.00

- Wall mounted gas condensing boiler for connection to balanced flue chimney or air/flue gas duct with BM-2 programming unit (including outside temperature sensor), high efficiency pump (EEI < 0.23), ALUPro coated heating water heat exchanger and three-way diverter valve
- Efficient combustion technology via gas adaptive, self-calibrating combustion control with automatic adaptation to the gas quality (e.g. biogas)
- Optimum utilisation of condensing technology by controlling the temperature spread without an overflow valve
- Steel DHW solar cylinder with two-layer enamel coating and

2 smooth tube indirect coils

- Solar pump assembly with variably adjustable high efficiency pump
- SM1 solar module for controlling a solar circuit (integrated into the solar pump assembly)
- Electronic cylinder sensor
- 25 l solar expansion vessel
- 10 l container for heat transfer medium



CGB-2-38/55 ComfortLine gas condensing boiler



DG | H10

TYPE	CGB-2	38	55
Energy efficiency class			
Space heating medium temperature	A+++ → D	A	A
Raumheizungs-Energieeffizienz η_S	%	94	94
Power range of heating at 80/60°C	kW	5,3 – 34,9	7,8 – 51,1
Power range of heating at 50/30°C	kW	6,3 – 38,0	9,2 – 55,0
Dimensions			
height	mm	790	790
width	mm	440	440
depth	mm	412	412
Weight	kg	46	46
EC identification number		CE-0085CU0300	
CGB-2-38/55	Art. no.	8615709	8615710
	€	5115.00	6375.00

- Gas condensing boilers, closed combustion chamber, for room-air dependent and independent operation
- Highly efficient robot-welded V4A finned tube heat exchanger with 7 times the surface area of smooth tube heat exchangers
- Modulation range from 17 - 100
- Extremely robust and durable construction
- Standard equipment includes modulating high-efficiency pump, flow sensor, exhaust gas flap and safety valve connection (safety valve as accessory)
- Intelligent pump spread control for optimum utilisation of condensing value
- Cyclone inlet for particularly clean and stable combustion
- No overflow valve, no return temperature increase - for maximum condensing efficiency

- Easy replacement of existing equipment: Sophisticated accessory concept and hydraulic connections compatible with previous models
- Maintenance without draining heating water
- Space-saving design: completely accessible from the front thanks to removable housing cover
- 5-fold cascable and fully hybrid compatible with WOLF heat pumps
- Cross-product WOLF control system WRS-2: BM-2 with commissioning assistant
- Smarthome-capable via integrable WOLF Link home



CGB-2-75/100

ComfortLine gas condensing boiler / combi boiler







DG | H10


TYPE	CGB-2	75	100
Energy efficiency class			
Space heating medium temperature	A+++ → D	A	A
Raumheizungs-Energieeffizienz η_S	%	95	
Power range of heating at 80/60°C	kW	70,8	92,1
Power range of heating at 50/30°C	kW	75,8	98,7
Dimensions			
height	mm	1050	1050
width	mm	565	565
depth	mm	548	548
Weight	kg	94	94
EC identification number		CE-0085DL0287	
CGB-2-68/75/100 ES	Art. no.	8614548	8616277
	€	7920.00	9870.00

- Gasbrennwertgeräte, Brennkammer geschlossen, für raumluftabhängigen und –unabhängigen Betrieb
- Modulationsbereich von 16 - 100 %
- 5-fach kaskadierbar (bis 500 kW)
- Jahreszeitbedingte Raumheizungseffizienz von 95 %
- Idealer Regelungsaufbau - alle Platinen, optionales WOLF Link home in einem Gehäuse, leicht zugängliche Anschlüsse
- Robuster, beschichteter AISi-Wärmetauscher aus Strangpressprofil
- Serienmäßige Abgasrückstromklappe für Kaskadenanwendungen
- Intelligente Pumpenspreizungsregelung für optimale Brennwertnutzung
- Kein Überströmventil, keine Rücklauftemperaturanhebung – für maximalen Brennwertnutzen
- Einfacher Austausch von Bestandsgeräten, zu Vorgängermodellen vollkompatible Anschlüsse
- Wartung ohne Heizwasser abzulassen
- Produktübergreifendes WOLF Regelungssystem WRS-2: BM-2 mit Inbetriebnahme-Assistent
- Optional auch mit Internetschnittstelle Wolf Link pro 4G inkl. eigenem Router




Control systems / Control accessories

	Description	Art. no.	DG	€
	BM-2 programming unit <ul style="list-style-type: none"> • Central operating module for WOLF heat generators of the WRS-2 generation • Room/weather-compensated temperature controller • for installation in heat generators / additional modules or in wall sockets for remote control • with time programs for heating, hot water and circulation • intuitive menu guidance with plain text display and 3.5" colour display • Commissioning assistant with automatic detection of plant components • Support of 5 heat generators with KM-2 • Adjustment of heating and cooling curves • Can be used as remote control for CWL Excellent / CWL-2 • Compatible with WOLF Smartset 			
	incl. outdoor temperature sensor, BM-2 black	2745304	H41	489.00
	incl. outdoor temperature sensor, BM-2 white	2745927	H41	489.00
	without outdoor temperature sensor, BM-2 black	2745306	H41	452.00
	Note: Required for the operation in accordance with EnEV.			
	AM Basic Without outdoor temperature sensor The AM-Basic serves as a temporary replacement for the BM-2: Commissioning and rudimentary operation of a WOLF heating system. Compatibility: <ul style="list-style-type: none"> • 1 heater incl. direct heating circuit & hot water circuit • max. 7 mixer modules with up to 7 mixer and hot water circuits The AM-Basic includes the following functions: <ul style="list-style-type: none"> • Setting of a common flow temperature for all heating circuits (dir. HK + MKs) • Setting of a common hot water set temperature • Activation of chimney sweep operation • Visualization and acknowledgement of error messages Step by step instructions see page B/C Note: The heating and hot water circuits are permanently controlled to the set temperatures adjusted at the AM-Basic!	8616978	H41	452.00
	Outside, ceiling or room temperature sensor	2792021	H41	37.00
	AM display module For installation in the appliance Note: Required for appliance operation if the BM-2 is used as a remote control.	2745310	H41	244.00









Control systems / Control accessories

	Description	Art. no.	DG	€
	Wall mounting base for BM-2 For using the BM-2 programming unit as a remote control			
	black white	1731129 1731442	H41 H41	33.80 33.80
	MM-2 mixer module Extension module for weather-compensated flow temperature control of a circuit with mixer. <ul style="list-style-type: none"> • Can be extended with the BM-2 programming unit as a remote control • Up to 7 mixer modules can be integrated into one system • Easy configuration of the controller by selecting predefined system versions • eBus interface with automatic energy management • Rast 5 connection technology • Incl. flow temperature sensor 	2745865	H41	412.00
	SM1-2 solar module Extension module for controlling a solar system with up to 2 storage tanks and 2 collector arrays <ul style="list-style-type: none"> • Simple configuration of the controller by selection of pre-defined plant variants • In combination with Wolf heaters, higher energy savings due to intelligent Storage tank recharging, i.e. blocking of storage tank recharging with a sufficiently high solar yield • Heat quantity measurement with external heat quantity meter for all configurations • Function control for volume flow and gravity brake • Selection of the storage mode (priority, secondary and parallel operation) • Display of setpoints and actual values in the adjustment module BM-2 eBus interface with automatic energy management • Rast 5 Connection technology • Immersion sensor PT1000 For collector • Immersion sensor 5K NTC for storage tank • Storage immersion sleeve 1/2" with PG strain relief • Collector immersion sleeve 3/4" with PG strain relief and seal 	2745867	H41	305.00
	SM2-2 solar module Extension module for controlling a solar system with up to 2 storage tanks and 2 collector arrays <ul style="list-style-type: none"> • Simple configuration of the controller by selecting predefined system variants • In conjunction with Wolf heaters higher energy savings through intelligent storage tank recharging, i.e. blocking of storage tank recharging if solar yield is sufficiently high • Heat quantity measurement with external heat quantity meter for all configurations • Function control for volume flow and gravity brake • Selection of the storage mode (priority, subordinate and parallel operation) • Display of set and actual values in the BM-2 operating module • eBus interface with automatic energy management • Rast 5 Connection technology • Immersion sensor PT1000 For collector • Immersion sensor 5K NTC for storage tank • Storage immersion sleeve 1/2" with PG strain relief • Collector immersion sleeve 3/4" with PG strain relief and seal 	2745869	H41	500.00





Control systems / Control accessories

	Description	Art. no.	DG	€
	KM-2 cascade module Extension module to control systems with a low loss header or cascade operation. Can be used for up to 5 heat generators. (Subject to heat generator) <ul style="list-style-type: none"> • Easy configuration of the controller by selecting predefined system versions • Switching of a circuit with mixer • BM-2 programming unit can be clipped into place or extended as a remote control unit with a wall mounting base • 0-10V input for building management systems, fault message output 230V • eBus interface with automatic energy management • Rast 5 connection technology 	2745866	H41	615.00
	Room module RM-2 4 in 1: Automatic recognition of the function based on system components: <ul style="list-style-type: none"> • Room temperature controller with daily/weekly program • Remote control for living room ventilation CWL Excellent / CWL 2 (at the same time as room temperature control) • Remote control of all heating or mixing circuits (with BM/BM-2 in the system) • Remote control for up to 7 individual heating circuits with several RM-2 (with BM/BM-2 in the system) • Illuminated touch screen • Integrated room temperature sensor • Connection via eBus interface • Many functions: Holiday mode, fault messages, temperature displays etc. • Compatible with WOLF Smartset 	2747657	H41	252.00
	Room module RM-2 Wireless Wireless version of the RM-2 A BASE WIRELESS is required for connection to the heat generator/ventilation system. (Long life batteries included) 4 in 1: Automatic recognition of function based on system components: <ul style="list-style-type: none"> • Room temperature controller with daily/weekly program • Remote control for living room ventilation CWL Excellent / CWL 2 (simultaneously with room temperature control) • Remote control of all heating or mixer circuits (with BM/BM-2 in the system) • Remote control for up to 7 individual heating circuits with several RM-2 (with BM/BM-2 in the system) • Illuminated touch screen • Integrated room temperature sensor • Many functions: Vacation mode, fault messages, temperature displays, etc. • Compatible with WOLF Smartset • Long life batteries included <p>Note: A Base Wireless is required for wireless use!</p>	2747658	H41	298.00
	Base Wireless <ul style="list-style-type: none"> • Wireless receiver with eBus connection for the heat generator or domestic ventilation. • For wireless communication with RM-2 Wireless or outdoor temperature sensor Wireless 	2747659	H41	228.00

Control systems / Control accessories

	Description	Art. no.	DG	€
	Outdoor temperature sensor for RM-2 Wireless Wireless based outdoor temperature sensor BASE WIRELESS is required for connection. Battery with long runtime included.	2747660	H41	169.00
	AFB analogue remote control <ul style="list-style-type: none">Basic WRS remote control for heating and mixer circuitsEach heating circuit can be operated separately with a remote controlIntegrated room temperature sensorSetting of temperature and program selection via rotary selectoreBus interface	2744551	H41	132.00
	Maximum thermostat For underfloor heating For switching off the heating circuit pump if the set temperature is exceeded.	2791905	H41	65.00
	Temperature sensor (NTC 5k, Ø 6 mm) loose Can be used as a cylinder, boiler, central unit and supply air temperature sensor	8852829	H41	67.00
	Heat metering kit For measuring the yield of SM1-2 and SM2-2 solar modules Consisting of: Flow meter, return contact sensor (NTC 5k), 2 union connections with male thread 1/2"			
	QNenn/max 1,5/3 m³/h	2744392	H41	204.00
	Qnom/max. 2.5/5 m³/h	2744610	H41	250.00
	Return contact sensor (NTC 5k) For SM1-2 and SM2-2 solar modules For measuring the yield using Δt and the flow rate set in the control unit.	2792022	H41	57.00
	WOLF LINK HOME LAN / WLAN INTERFACE MODULE Consisting of: WOLF LINK HOME interface module, connection cable, installation / operating instructions, network cable <ul style="list-style-type: none">Integrated LAN and WLAN interfaces for integration of WOLF heating systems in one network, orFor WOLF heating device connections to the Wobutler Smarthome system Note: To obtain full access to both functions and operation a programming module BM-2 is recommended.	2746365	H41	270.00
	iSM8i OPEN SOURCE ETHERNET INTERFACE MODULE Interface module with disclosed TCP/IP protocol for system-independent integration of WOLF heating appliances and ventilation units.	2745831	H41	277.00






Control systems / Control accessories

	Description	Art. no.	DG	€
	KNX interface kit Interface kit for integration of WOLF heating appliances into a KNX network Consisting of: Interface module ISM8i ETHERNET, KNX-IP-BAOS module, installation and operating instructions, network cable	2745713	H41	845.00
	I/O module Extension module for 2 programmable inputs and 2 programmable outputs	2745730	H41	181.00
	Outside, ceiling or room temperature sensor	2792021	H41	37.00
	BACnet interface kit Interface kit for integration of WOLF heating appliances into a BACnet network Consisting of: Interface module ISM8i, WOLF BACnet gateway, installation and operating instructions, network cable (2 pcs)	2746108	H41	1995.00






CGU-2(K) ComfortLine conventional wall mounted gas boiler / combi boiler

DG | H10

TYPE	CGU-2	10	18	24
	CGU-2K			
Energieeffizienzklasse				
Space heating medium temperature	A+++ → D			
Water heating				
Power range of heating at 80/60°C	kW	7,5 – 10	8 – 18	10,9 – 24
Tapping code		-	M	XL
Dimensions				
height	mm	855	855	855
width	mm	440	440	440
depth	mm	393	393	393
Weight	CGU-2	kg	39,39	
Weight	CGU-2K	kg	39,39,39	41,41,41
EC identification number			CE-0085BS0516	
Liquefied petroleum gas	Art. no.		8616129	8616130
	€		4310.00	4415.00
Natural gas E	Art. no.	8616111	8616108	8616107
	€	2855.00	4270.00	4375.00
Natural gas LL	Art. no.	8616110	8616109	8616104
	€	2855.00	4270.00	4375.00

- Gas calorific value boiler for room air dependent operation
- Standard with expansion vessel 10l, modulating high-efficiency pump (EEI < 0.20) and 3-way valve
- Wolf Low-NOx - Unit with Hydro Tec - System designed for lowest emissions (NOx class 6)
- Maintenance-friendly design, easy internal accessibility
- Extremely low power consumption thanks to latest pump generation
- Proven sensor technology from other WOLF devices (e.g. flow sensor in combination versions)
- eBus-capable control for connection of digital Wolf control accessories
- Very quiet thanks to optimum water flow in the latest version to minimize flow noise
- Convenient hot water quick start, with CGU-2K-18/24 with high-quality stainless steel plate heat exchanger
- High spare parts uniformity with other WOLF products
- Connection compatible with each other and with the CGB-2(K)
- flexible gas slider enclosed

Control systems / Control accessories

	Description	Art. no.	DG	€
	Room module RM-2 4 in 1: Automatic recognition of the function based on system components: <ul style="list-style-type: none"> • Room temperature controller with daily/weekly program • Remote control for living room ventilation CWL Excellent / CWL 2 (at the same time as room temperature control) • Remote control of all heating or mixing circuits (with BM/BM-2 in the system) • Remote control for up to 7 individual heating circuits with several RM-2 (with BM/BM-2 in the system) • Illuminated touch screen • Integrated room temperature sensor • Connection via eBus interface • Many functions: Holiday mode, fault messages, temperature displays etc. • Compatible with WOLF Smartset 	2747657	H41	252.00
	Room module RM-2 Wireless Wireless version of the RM-2 A BASE WIRELESS is required for connection to the heat generator/ventilation system. (Long life batteries included) 4 in 1: Automatic recognition of function based on system components: <ul style="list-style-type: none"> • Room temperature controller with daily/weekly program • Remote control for living room ventilation CWL Excellent / CWL 2 (simultaneously with room temperature control) • Remote control of all heating or mixer circuits (with BM/BM-2 in the system) • Remote control for up to 7 individual heating circuits with several RM-2 (with BM/BM-2 in the system) • Illuminated touch screen • Integrated room temperature sensor • Many functions: Vacation mode, fault messages, temperature displays, etc. • Compatible with WOLF Smartset • Long life batteries included <p>Note: A Base Wireless is required for wireless use!</p>	2747658	H41	298.00
	Base Wireless <ul style="list-style-type: none"> • Wireless receiver with eBus connection for the heat generator or domestic ventilation. • For wireless communication with RM-2 Wireless or outdoor temperature sensor Wireless 	2747659	H41	228.00







Control systems / Control accessories

	Description	Art. no.	DG	€
	Outdoor temperature sensor for RM-2 Wireless Wireless based outdoor temperature sensor BASE WIRELESS is required for connection. Battery with long runtime included.	2747660	H41	169.00
	BM programming unit Room temperature-dependent/weather-compensated control, time programs for heating and DHW, backlit LCD, simple menu navigation through plain text display, operation using rotary selector with push-button function, 4 function keys for frequently used functions (heating, DHW, setback, information), mounted in wall mounting base, only one programming unit necessary for installations with multiple circuits, eBus interface			
	Incl. outside temperature sensor	2744076	H41	472.00
	Without outside temperature sensor (only in combination with wall mounting base, art.-no. 2744275)	2744347	H41	442.00
	SM1-2 solar module Extension module for controlling a solar system with up to 2 storage tanks and 2 collector arrays	2745867	H41	305.00
	<ul style="list-style-type: none"> • Simple configuration of the controller by selection of pre-defined plant variants • In combination with Wolf heaters, higher energy savings due to intelligent Storage tank recharging, i.e. blocking of storage tank recharging with a sufficiently high solar yield • Heat quantity measurement with external heat quantity meter for all configurations • Function control for volume flow and gravity brake • Selection of the storage mode (priority, secondary and parallel operation) • Display of setpoints and actual values in the adjustment module BM-2 eBus interface with automatic energy management • Rast 5 Connection technology • Immersion sensor PT1000 For collector • Immersion sensor 5K NTC for storage tank • Storage immersion sleeve 1/2" with PG strain relief • Collector immersion sleeve 3/4" with PG strain relief and seal 			

Control systems / Control accessories

	Description	Art. no.	DG	€
	SM2-2 solar module Extension module for controlling a solar system with up to 2 storage tanks and 2 collector arrays <ul style="list-style-type: none"> • Simple configuration of the controller by selecting predefined system variants • In conjunction with Wolf heaters higher energy savings through intelligent storage tank recharging, i.e. blocking of storage tank recharging if solar yield is sufficiently high • Heat quantity measurement with external heat quantity meter for all configurations • Function control for volume flow and gravity brake • Selection of the storage mode (priority, subordinate and parallel operation) • Display of set and actual values in the BM-2 operating module • eBus interface with automatic energy management • Rast 5 Connection technology • Immersion sensor PT1000 For collector • Immersion sensor 5K NTC for storage tank • Storage immersion sleeve 1/2" with PG strain relief • Collector immersion sleeve 3/4" with PG strain relief and seal 	2745869	H41	500.00
	MM mixer module Extension module for weather-compensated flow temperature control of a mixer circuit. <ul style="list-style-type: none"> • Can be extended as remote control with operating module BM • Up to 7 mixer modules can be integrated into one system • Simple configuration of the controller by selecting predefined system variants • Operating module BM can be clipped in or extended with wall socket as remote control • eBus interface with automatic energy management • Rast 5 Connection technology • can also be used for hot water preparation or return temperature increase • incl. flow temperature sensor 	2744293	H41	410.00
	Wall mounting base Wall mounting base for using the BML programming unit as a remote control	2744275	H41	37.00
	AFB analogue remote control <ul style="list-style-type: none"> • Basic WRS remote control for heating and mixer circuits • Each heating circuit can be operated separately with a remote control • Integrated room temperature sensor • Setting of temperature and program selection via rotary selector • eBus interface 	2744551	H41	132.00

Control systems / Control accessories

	Description	Art. no.	DG	€
	Maximum thermostat For underfloor heating For switching off the heating circuit pump if the set temperature is exceeded.	2791905	H41	65.00
	WOLF LINK PRO LAN/WLAN external interface module Consisting of: Interface module ISM7e / WOLF LINK PRO, installation and operating instructions, eBus cable, power supply unit, network cable <ul style="list-style-type: none"> • LAN and WLAN interface module for wall mounting or mobile application • Connection of Wolf heating appliances to the Wolf Smartset portal/App • mobile application for parametrisation of the heating system • Voltage supply via mains adapter or USB Note: Can only be used in conjunction with BM-2.	2746366	H41	505.00
	Cylinder temperature sensor With round blue plug	279905499	H41	56.00
	Heat metering kit For measuring the yield of SM1-2 and SM2-2 solar modules Consisting of: Flow meter, return contact sensor (NTC 5k), 2 union connections with male thread 1/2"			
	QNenn/max 1,5/3 m³/h	2744392	H41	204.00
	Qnom/max. 2.5/5 m³/h	2744610	H41	250.00
	Return contact sensor (NTC 5k) For SM1-2 and SM2-2 solar modules For measuring the yield using Δt and the flow rate set in the control unit.	2792022	H41	57.00
	Outside, ceiling or room temperature sensor	2792021	H41	37.00



CSW ComfortLine DHW cylinder made from with enamel coating





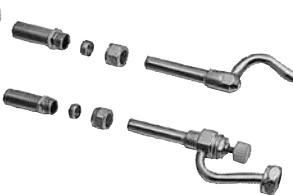
DG | H45

TYPE	CSW	120
Energy efficiency class	A+ → F	B
Cylinder capacity	l	115
Continuous cylinder output of heating *80/60-10/45°C	kW/l/h	29 – 710
Output factor of heating	NL60	1.0
Weight	kg	65
CSW	Art. no.	2445121
	€	1060.00




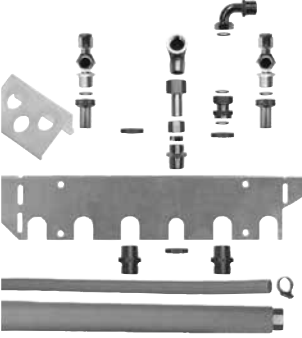
* Heating water flow/heating water return - cold water/hot water

- R 3/4" connections for flow and return, G3/4" for cold water, DHW and DHW circulation, and also a cleaning aperture, all at the top of the cylinder for easy connection and cleaning
- White RAL 9016 powder-coated casing
- Rigid PUR foam thermal insulation all around the cylinder, applied directly to the cylinder surface, highly effective for low heat losses
- Corrosion protection through enamelled cylinder interior and internal indirect coil to DIN 4753, Part 3. Additional corrosion protection through sacrificial magnesium anode integrated into the inspection and cleaning aperture
- Internal indirect coil with large heat exchanger surface area for short heat-up times
- High continuous DHW output
- R 1/2" drain at the front, incl. drain valve and hose connection
- Adjustable feet
- 5 year warranty

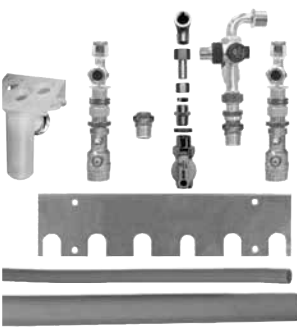
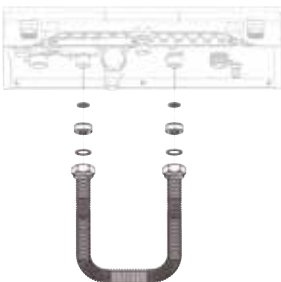

Accessories for wall-mounted gas boilers

	Description	for product	Art. no.	DG	€
	Installation template For flush mounting For gas, heating circuit and DHW, made from zinc-plated sheet steel	gas boilers	8600064	H40	.01
	Connection kit For flush mounting Consisting of: Gas ball valve with thermal safety device, right angle maintenance valve with boiler drain and fill valve, right angle maintenance valve with boiler drain and fill valve and connection for R½ safety valve, safety valve with 3 bar response pressure, tundish	All gas boilers	2072347	H40	236.00
	UPM CONNECTION KIT „+KFE GU/GG THERM. PRO.“, consisting of: Gas ball valve with thermal protection, Angle maintenance valve with drain & fill valve, Angle maintenance valve, with drain & fill valve and connection for R½ safety valve, Warm water connector, Cold water connector, 3 bar response pressure safety valve, Drain outlet“	All gas combi boilers	2072334	H40	283.00
	Connection kit For flush mounting Consisting of: Gas ball valve with thermal safety device, 2 right angle maintenance valves with boiler drain and fill valve and tundish	CGS-2	2072348	H40	217.00
	Connectors For flush mounting DHW G½" and cold water G½" with shut-off valve, chrome plated	gas combi boilers	2071678	H40	51.00





Accessories for wall-mounted gas boilers

	Description	for product	Art. no.	DG	€
	Connection kit For surface mounting Consisting of: Gas ball valve with thermal safety device, straight-through maintenance valve with boiler drain and fill valve, straight-through maintenance valve with boiler drain and fill valve and connection for R $\frac{1}{2}$ safety valve, safety valve with 3 bar response pressure, tundish	Gas Combined Baths	2072346	H40	219.00
	CONNECTION KIT for surface mounting Consisting of: Gas ball valve with thermal protection, Straight-through maintenance valve with drain & fill valve, Straight-through maintenance valve with drain & fill valve and connection for R $\frac{1}{2}$ safety valve, Warm water connector, Cold water connector, drain outlet, 3 bar response pressure safety valve"	Gas combination boiler	2072345	H40	254.00
	Connection kit For surface mounting Consisting of: Gas ball valve with thermal safety device, 2 straight-through maintenance valves with boiler drain and fill valve and tundish	CGS-2	2072338	H40	199.00
	Connectors For surface mounting DHW R $\frac{1}{2}$ " and cold water R $\frac{1}{2}$ " with shut-off valve, chrome plated	gas combi boilers	2071677	H40	40.00
	Connection kit For surface and flush mounting to heating flow/return, DHW/cold water, gas Consisting of: Adjustable connection bracket for flush or surface mounting, 2 corrugated stainless steel pipes 8 mm long, 2 corrugated stain- less steel pipes 1 mm long, 2 heating water flow/return connectors, two $\frac{3}{4}$ " twin con- nectors, 2 tees with $\frac{1}{2}$ " air vent valve, dou- ble threaded connection, 1 condensate di- scharge line, $\frac{1}{2}$ " 9° bend, $\frac{3}{4}$ " 9° pipework, gas connector, triple hose retainer, transpar- ent plastic	CGS-2	2071832	H40	366.00






Accessories for wall-mounted gas boilers

	Description	for product	Art. no.	DG	€
	<p>Connection kit suitable for surface installation on heating supply/return, hot/cold water, gas partly premounted</p> <p>consisting of: Connection console variable for surface mounting, 4 corrugated stainless steel tubes 800mm long, 2 connecting parts Heating water supply / return, 2 double nipples 3/4", 2 T-pieces with air vent 1/2", Double bolting, 1 Condensate drain line, 90° bend 1/2", piping 90° 3/4", Connection part gas, drain funnel R1, Gas ball valve with thermal protection, 2 straight-way maintenance valves with KFE valves, and safety group without pressure reducer up to 6 bar mains overpressure, Safety valve 10 bar</p>	CGS-2	2072333	H40	800.00
	<p>Overflow line for heating operation Necessary for CGB-2 if no DHW cylinder is being connected.</p> <p>Consisting of:</p> <ul style="list-style-type: none"> • 2 fitting reducers 3/4" x 1/2" • 1 stainless steel corrugated pipe • 1 trimming kit for stainless steel corruga- ted pipe • 1 flat gasket G3/4" • 2 flat gaskets G1/2" 	CGB-2	8614785	H40	54.00
	<p>Verschlusskappen-Set G 3/4</p>	CGU-2-10	2070927	ET	13,25







Accessories for wall-mounted gas boilers

	Description	for product	Art. no.	DG	€
	Adapter for cold/hot water connection for cold/hot water connection only necessary if CGW up to year of construction 2013 is replaced by CGW-2 from year of construction 2013 consisting of: 1 intermediate piece cold water G $\frac{3}{4}$ ", 1 intermediate piece hot water G $\frac{1}{2}$ "	CGW-2	8614238	H40	52.00
	CONNECTION SET FOR SURFACE-MOUNTED INSTALLATIONS Consisting of: Heating circuit connection set, expandable (2 straight-through maintenance cocks with ball valves and KFE valves, connection possibility for safety valve, Expansion vessel, overflow bridge) Gas ball valve straight through R $\frac{3}{4}$ " with thermal fuse, Safety valve 3 bar response pressure Connection $\frac{3}{4}$ " female thread, Run-off funnel	CGB-2-38/55	8616330	H40	307.00
	Heating circuit connection set, expandable Consisting of: Connection on the device flat-sealing, connection for safety valve, further connections e.g. for overflow bridge, connection on heating supply/return with ball valves 1" IT, 2 KFE valves	CGB-2-38/55	2075061	H40	219.00
	Connection set overflow bridge Required for direct connection to the heating system 3-piece construction for easy installation on the heating circuit connection set 2075061	CGB-2-38/55	2075062	H40	199.00
	Potable water connection kit Consisting of: Connection on the appliance, flat gasket. Connection to cold water/DHW with ball valves can be made with $\frac{3}{4}$ " male thread.	CGB-K-40-35	8611844	H40	47.00






Accessories for wall-mounted gas boilers

	Description	for product	Art. no.	DG	€
	Connection kit flow and return for heating and solar circuits For connection left or right to the CSZ-2, side clearance of 140mm between boiler and wall Consisting of: Wall bracket, 4 thermally insulated copper pipes 18×1, 2 boiler fill and drain valves for heating circuit, gas ball valve with thermal safety device and 2 shut-off valves for heating circuit	CSZ-2	7701126	H40	394.00
	Connection set for hot/cold water, with thermostatic water mixer and high-efficiency domestic hot water circulation pump For connection to the left, right or rear of the CSZ-2, side clearance of 140mm between boiler and wall; (minimum required room height 2,25m) Consisting of: Wall bracket, 4 thermally insulated corrugated hoses with associated shortening sets, 2 shut-off valves, thermostatic water mixer with integrated non-return valve and scalding protection and high-efficiency domestic hot water circulation pump with non-return valve (electrical power consumption W)	CSZ-2	7701136	H40	830.00
	Concealed mounting bracket For flush mounting Connections can be rotated by 360° for threaded connection	All gas combi boilers and all gas boilers	207049599	H40	135.00
	Concealed mounting bracket For flush mounting Connections can be rotated by 360° for threaded connection	All gas boilers	207049699	H40	101.00
	Connection bracket For surface mounting	Gas combi boilers Gas boilers	8600175 8600114	H40 H40	99.00 62.00






Accessories for wall-mounted gas boilers

	Description	for product	Art. no.	DG	€
	Gas ball valve, right angle version For flush mounting With thermal safety device, chrome plated				
	R1½" R¾"	Gas boilers CGB-35, CGB-50,	2011013 2011193	H40 H40	62.00 89.00
		CGB-K40-35			
	Gas ball valve, straight-through version For surface mounting, chrome plated With thermal safety device				
	Rp1½" Rp¾"	Gas boilers CGB-75, CGB-100,	2011012 2011017	H40 H40	62.00 66.00
		CGB-35/50/-K-40-35			
	Right angle maintenance valve G¾ For flush mounting Chrome plated with boiler drain and fill valve	Gas boilers	2070615	H40	55.00
	Right angle maintenance valve G¾ For flush mounting Chrome plated with boiler drain and fill valve and R1½ connection for safety valve	Gas boilers	2070613	H40	55.00
	Straight-through maintenance valve Rp¾ For surface mounting Chrome plated with boiler drain and fill valve, straight-through maintenance valve	Gas boilers	2070616	H40	48.00
	Straight-through maintenance valve Rp¾ For surface mounting Chrome plated with boiler drain and fill valve and R1½ connection for safety valve	Gas boilers	2070614	H40	50.00





Accessories for wall-mounted gas boilers

	Description	for product	Art. no.	DG	€
	Safety valve 3 bar response pressure for sealed unvented hot water heating systems, chrome plated				
	Up to 50 kW, connection 1/2" female thread, discharge 3/4" female thread, pressure gauge display range 0-4 bar	All boiler, gas heaters	2011000	H40	26.70
	Up to 100 kW, connection 3/4" female thread, discharge 1" female thread	up to 24kW All boiler, gas heaters	2011191	H40	44.00
		from 35kW			
	Safety valve for internal connection Connection 3/4" plugged in, outlet 1" IG				
	3 bar Set pressure 6 bar Set pressure	CGB-2-38/55 CGB-2-38/55	2075071 2075095	H40 H40	44.00 55.00
	Exhaust gas connection adapter For the uncomplicated exchange of a CGB-35/50. To compensate the height reduction of 40mm	CGB-2-38/55	1731795	H40	36.40
	Motor 230 V For uncomplicated conversion of the change-over valve to 230 V in case of replacement of a CGB-35/50 with 3-way change-over valve 8602187, including connection cable	CGB-2-38/55	2269757	H40	95.00
	THREE-WAY SWITCHING VALVE Heating / cooling 230 V wired with cable as additional change-over valve Connections 1 „IG, kvs = 12	CHA, CGB-2-38/55	9146880	H31	215.00
	Drain outlet R1 Trap with pipe collar and triple hose retainer Transparent plastic	gas boilers	8602888	H40	39.10



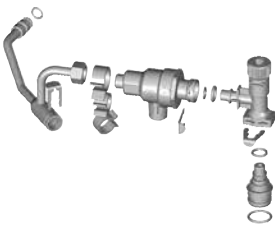


Accessories for wall-mounted gas boilers

	Description	for product	Art. no.	DG	€
	Microbubble separator To protect the unit and the high-efficiency pump from dirt / sludge and magnetite, a sludge separator with magnetite separator must be installed in the heating return. WOLF recommends a micro-bubble separator in the heating flow to effectively remove air and micro-bubbles. 1" up to 2.1 m³/h 1¼" to 3.5 m³/h 1½" up to 5.4 m³/h 2" up to 8.2 m³/h		2071877 2070407 2072251 2072252	H40 H40 H40 H40	177.00 213.00 235.00 313.00
	Thermal insulation For microbubble separator 1" 1¼" / 1½" 2"		1669275 1669276 1669280	H40 H40 H40	89.00 89.00 89.00
	Sludge separator To protect the unit and the high-efficiency pump against dirt / sludge and magnetite is a sludge separator with magnetite separator in the heating return flow. WOLF recommends the following for effective removal of air and microbubbles a microbubble separator in the heating flow. 1" up to 2.1 m³/h 1¼" up to 3,5m³/h 1½" up to 5.4 m³/h 2" up to 8.2 m³/h		2071880 2071879 2072246 2072247	H40 H40 H40 H40	263.00 300.00 326.00 367.00
	Thermal insulation For dirt trap incl. magnetite separator 1" 2"		1669270 1669271 1669272	H40 H40 H40	93.00 93.00 93.00
	Sludge separator, rotatable <ul style="list-style-type: none"> • Rotatable version for flexible use on the construction site • With extra powerful removable magnet • Incl. sludge tap and removable housing base for easy maintenance To protect the unit and the high-efficiency pump from dirt / sludge and magnetite is a sludge separator with magnetite separator to be installed in the heating return flow. For effective removal WOLF recommends of air and micro-bubbles a micro-bubble separator in the heating flow. 1" till 2,1m³/h 1¼" till 3,5m³/h 1½" bis 5,4m³/h		2075008 2075009 2075010	H40 H40 H40	286.00 414.00 461.00


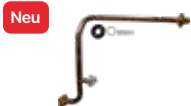



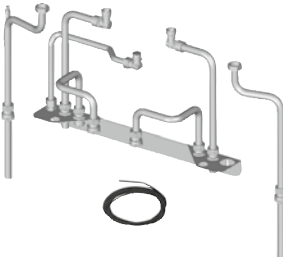
Accessories for wall-mounted gas boilers

	Description	for product	Art. no.	DG	€
	heat insulation for sludge separator (rotatable) incl. magnetite separator				
	1"		1669602	H40	91.00
	1¼"		1669603	H40	91.00
	1½"		1669604	H40	91.00
Neu 	UP Magnetitabscheider Für Unterputz-Installationen Platzsparendes Set zum Schutz des Gerätes und der Hocheffizienzpumpe. Bestehend aus: Schlammabscheider mit Magnetitabscheider, Verrohrung Rücklauf mit Absperr- und Befüllfunktion, Anschluss für Sicherheitsventil R1/2"	BOILERS bis 24kW	2075181	H40	269.00
Neu	UP Anschlussset mit Magnetitabscheider Für Unterputzinstallation bestehend aus: Gaskugelhahn mit thermischer Sicherung, Eckwartungshahn mit KFE-Hahn, Schlammabscheider mit Magnetitabscheider, Verrohrung Rücklauf mit Absperr- und Befüllfunktion, Anschluss für Sicherheitsventil R1/2", Sicherheitsventil 3 bar Ansprechdruck, Ablauftrichter	Gasheizthermen Heiz- und Brennwert (nicht für CGS-2) bis 24 kW	2075361	H40	373.00
Neu	UP Anschlussset mit Magnetitabscheider Für Unterputzinstallation bestehend aus: Gaskugelhahn mit thermischer Sicherung, Eckwartungshahn mit KFE-Hahn, Schlammabscheider mit Magnetitabscheider, Verrohrung Rücklauf mit Absperr- und Befüllfunktion, Anschluss für Sicherheitsventil R1/2", und mit Anschluss für Sicherheitsventil R½ , Anschlusssteil Warmwasser, Anschlusssteil Kaltwasser, Sicherheitsventil 3 bar Ansprechdruck, Ablauftrichter	Gaskombithermen	2075362	H40	432.00
	Ball valve 1"	CGB-2-38/55	2011192	H40	23.50
	Boiler fill and drain valve set Consisting of: Ball valve with cap, hose connection and pipe coupling reducer 1" to ½".	CGB-2-38/55	8815351	H40	20.50

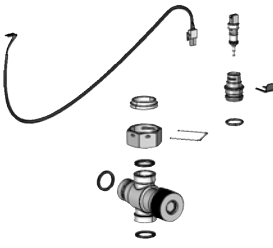


Accessories for wall-mounted gas boilers

	Description	for product	Art. no.	DG	€
	Dirt trap 1 1/4" To protect the appliance and pump from heavy soiling or deposits from the system.	CGB-2-38/55	2070405	H40	97.00
	Pump shut-off valve For the heating circuit pipe assembly, for shut-off upstream of the pump for straight-forward pump replacement, with easily operated ball valve, for installation with flat gasket below the thermal insulation shell				
	DN25	CGB-35/50/-K-40-35, All boilers	2012058	H40	36.70
	DN32	All boilers, CGB-35/50/-K-40-35	2012062	H40	56.00
	Note: DN25 is also suitable for the pipework set for cylinders installed below the boiler and floor-standing cylinders (2 pcs required)				
	Filling device can be integrated in the device for filling the heating system with system separator type CA consisting of: 1 plastic corner cock DN10 2 O-RING 10x2.5 EPDM 2 Piping clip DN10 1 connection lid Filling device 1 O-RING 17.12x2.62 EPDM 1 system separator 1 flat gasket 11,2x6x1 1 piping D8 with manometer connection 1 clip 1 O-RING 7.8x2.1 EPDM 1 hose holder 1 silicone grease 10 gram tube	CGB-2K / CGW-2 / CGS-2	2071875	H40	129.00
	Maximum thermostat For underfloor heating For switching off the heating circuit pump if the set temperature is exceeded.	boilers, gas heaters	2791905	H41	65.00
	Impressed current anode	TS-160, TR-160, CGS-2	2483556	H46	285.00





Accessories for wall-mounted gas boilers

	Description	for product	Art. no.	DG	€
	3-way mixer				
	DN20, Kvs 6.3		2744673	H40	84.00
	DN25, Kvs 10		2744674	H40	91.00
	DN32, Kvs 16		2744675	H40	96.00
	Gasdruckwächter Gasanschlussrohr inkl. vorinstalliertem Gasdruckwächter für den Einbau innerhalb der CGB-2-75/100	CGB-2-75/100	8616924	H40	201,00
	Line control valve 2" 20-200 l/min For balancing the maximum amount of water via the wall mounted gas condensing boiler (max. 13 l/min)	CGB-2-75/100	2070597	H40	209.00
	Highly efficient domestic hot water circulation pump with non-return valve, shut-off valve and 1 set threaded connect. 1 1/4" female thread x 3/4" female thread electrical power consumption 8W	CSZ-2	8908530	H40	265,00
	Connection kit for DHW cylinder (CSW-120) For flush mounting as a kit Consisting of: <ul style="list-style-type: none"> • Cylinder temperature sensor 6 mm Ø • Cylinder flow/return pipework for connection to DHW cylinder • Cold/hot water pipework for flush mounting • 2 DHW connectors • Locking ring fittings used together with connection kit for flush mounting part no. 272347 				
		CGB-2 bis 24 kW	8615300	H40	301.00
		CGU-2/CGG-2	8615302	H40	259.00
	Connection kit for DHW cylinder (CSW-120) For surface mounting as a kit Consisting of: <ul style="list-style-type: none"> • Cylinder temperature sensor Ø 6 mm • Connection bracket for DHW cylinder • Heating flow/return pipework from appliance to connection bracket • Gas pipework from appliance to connection bracket • Cylinder flow/return pipework for DHW cylinder connection • Cold/DHW pipework from cylinder to connection bracket • Locking ring fittings used together with connection kit for surface mounting, part no. 272346 	CGB-2	2071820	H40	309.00





Accessories for wall-mounted gas boilers

	Description	for product	Art. no.	DG	€
	Cable extension 4 m For cylinder temperature sensor with round blue plug, part no. 27995499		279924399	H41	46.00
	Kit for solar integration Consisting of: 1 thermal mixing valve G $\frac{3}{4}$ 1 union nut G $\frac{3}{4}$ 1 counter ring G $\frac{3}{4}$ 1 locking spring 3 flat gaskets 24x17x2 1 immersion sensor NTC 5k brass Molex 1 sensor cover 1 O-ring 17.12x2.62 EPDM 1 clip 1 tube of silicone grease 1 g, 1 power cable	CGB-2-K	8614404	H40	166.00
	Potable water connection kit For flush mounting With pressure reducer, $\frac{1}{2}$ " Consisting of: DHW connector, pipe collar, threaded pipe with locking ring G $\frac{1}{2}$ ", support sleeve, safety assembly with pressure reducer, pipework connection for safety assembly, pipework from safety assembly to cold water connection block, elbow including 3 gaskets G $\frac{3}{4}$ "	CGW-2	8610473	H40	365.00
	Potable water connection kit For surface mounting With pressure reducer, $\frac{1}{2}$ " Consisting of: Safety valve assembly with pressure reducer, pipework safety assembly for cold water connection block, incl. 2 gaskets G $\frac{3}{4}$ "	CGW-2	8610474	H40	319.00

Accessories for wall-mounted gas boilers

	Description	for product	Art. no.	DG	€
	Potable water connection kit For flush mounting Without pressure reducer, 1/2" Consisting of: DHW connector, pipe collar, threaded pipe with locking ring G1/2", sup- port sleeve, safety assembly without pressure reducer, pipework connection for safety assembly, pipework from safety assembly to cold wa- ter connection block, elbow including 3 gaskets G3/4"	CGW-2	8610475	H40	241.00
	Potable water connection kit For surface mounting Without pressure reducer, 1/2" Consisting of: Safety assembly without pressure reducer, pipework from safety assembly to cold wa- ter connecting block, incl. 2 gaskets G3/4"	CGW-2	8610476	H40	192.00
	Safety assembly without pressure reducer For surface mounting Up to 16 bar mains pressure, Consisting of: Safety valve with 1 bar response pressure, non-return valve, shut-off, with pipework from CSW DHW cylinder to connection brack- et for DHW cylinder Note: Flush mounting for CGU-2 or CGG-2 only in conjunction with DHW cylinder connection kit, part no. 2071861.	CSW-120	8600176	H40	143.00
	Safety assembly For flush mounting Without pressure reducer, up to 16 bar mains pressure Consisting of: Safety valve with 1 bar response pressure, with pipework from CSW DHW cylinder to cold water connection	CSW-120	8600644	H40	180.00

Accessories for wall-mounted gas boilers



	Description	for product	Art. no.	DG	€
	Safety assembly for surface mounting Without pressure reducer, up to 16 bar mains pressure, with safety valve with 1 bar response pressure, non-return valve, shut-off, with pipework from CSW DHW cylinder to connection bracket for DHW cylinder Note: Flush mounting for CGU-2 or CGG-2 only in conjunction with DHW cylinder connection kit, part no. 2071861.	CSW-120	8600177	H40	249.00
	Safety assembly For flush mounting With pressure reducer up to 16 bar mains pressure, with safety valve with 1 bar response pressure, with pipework from CSW DHW cylinder to cold water connection	CSW-120	8600645	H40	298.00
	Safety assembly Without pressure reducer For surface/flush mounting Up to 6 bar mains pressure, safety valve with 1 bar response pressure, connection DN15	CGS-2, CGW-2	2011109	H40	134.00
	Safety assembly With pressure reducer For surface/flush mounting Up to 16 bar mains pressure, safety valve with 1 bar response pressure, connection DN15	CGS-2, CGW-2	2011110	H40	234.00

Accessories for wall-mounted gas boilers



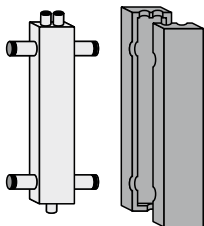


Description	for product	Art. no.	DG	€
<p>Pipe assembly for heating circuit consisting of: High-efficiency pump (EEI < 0.20) self-regulating, wired with cable ready to plug in, Ball valves with thermometer in flow and return, gravity brake without overflow valve Design thermal insulation shells made of EPP, group completely assembled, hydraulically and electrically tested</p> <p>Dimensions HxWxD: 384×250×260 Distance between spigots: 125mm</p> <p>DN25: Connection flat at the bottom. 1½" top IG 1" transition screw connection Δp=150 mbar at V=2350 l/h at Δt 10K to 27kW, at Δt 15K to 41kW at Δt 20K to 55kW</p> <p>DN32: Connection flat at the bottom. 1½" top IG1 1¼" Transition screw connection Δp=150 mbar at V=3100 l/h at Δt 10K to 36kW, at Δt 15K to 54kW at Δt 20K to 72kW</p> <p>DN25-60 DN32-60</p> <p>Note: Flow can be easily switched from left to right. No additional wall retainer required for installation on a manifold.</p>				
		2072135	H40	925.00
		2072136	H40	980.00

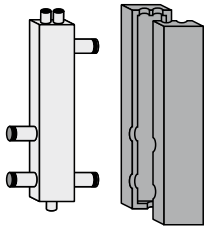



Accessories for wall-mounted gas boilers

	Description	for product	Art. no.	DG	€
	Pipe assembly for circuit with mixer consisting of: High-efficiency pump (EEI < 0.20) self-regulating, mounted mixer motor, both wired with cable ready to plug in, drip-proof at zero position, ball valves with thermometer in flow and return, gravity brake without overflow valve Design thermal insulation shells made of EPP, group completely assembled, hydraulically and electrically tested Dimensions HxWxD: 384×250×260 Distance between spigots: 125mm DN25: 3-way brass mixer kvs=10 Connection flat at the bottom. 1½" Above IG 1" transition screw connection, adjustable bypass Δp=150 mbar at V=2200 l/h at Δt 10K to 26kW at Δt 15K to 38kW at Δt 20K to 51kW DN32: 3-way brass mixer kvs=18 Connection flat at the bottom. 1½" top IG1 1¼" Transition screw connection Δp=150 mbar at V=3000 l/h at Δt 10K up to 35kW at Δt 15K to 52kW at Δt 20K to 70kW DN25-60 DN32-60				
	Note: Flow can be easily switched from left to right. No additional wall retainer required for installation on a manifold. MM-2 mixer module can be integrated.				
			2072139	H40	1355.00
			2072140	H40	1465.00
	Wall retainer kit For heating/mixer circuit pipe assemblies For quick and safe installation of pipe assemblies. For DN25 heating circuits or circuits with mixer For DN32 heating circuits or circuits with mixer				
			2072199	H40	35.60
			2072200	H40	36.10
	Note: Not required if the pipe assemblies are installed on the manifold.				




Accessories for wall-mounted gas boilers

	Description	for product	Art. no.	DG	€
	Controller retainer for MM2 For integrating the mixer module into the pipe assembly		2072242	H41	74.00
	Connecting cable for external pump In combination with hydraulic separation	gas boilers and gas condensing units	2744178	H41	30.40
	Manifold with thermally separated supply and return Design thermal insulation shells made of EPP. Distributor can be rotated or moved through 3 boiler-side connection pipes for adaptation to the heating circuit side flow, wall bracket included Dimensions HxWxD: 168×500/750×140 Distance between spigots: 125mm Connection flat at the bottom. 1½" flat sealing at the top with union nut 1½" kvs=12,5 / Vmax.=4500 l/h $\Delta p=130$ mbar at V=4500 l/h $\Delta p=40$ mbar at V=2500 l/h				
	2 heating circuits or circuits with mixer		2072197	H40	339.00
	3 heating circuits or circuits with mixer		2072198	H40	495.00
	Low loss header, up to 4.5 m³/h Consisting of: Box section 8 × 12 mm and four G1½" (male thread) connectors with flat gaskets, three Rp½" connections for air vent valve, boiler drain and fill valve and sensor well. Incl. black push-fit thermal insulation shells, air vent valve, boiler drain and fill valve, sensor well, flat gaskets, wall retainers and installation material.	Gasbrennwertthermen bis 55 kW	2011333	H40	555.00





Accessories for wall-mounted gas boilers

	Description	for product	Art. no.	DG	€
	Low loss header Flow rate up to 10 m ³ /h consisting of: Square hollow profile 140 × 140mm, 4 Connection pipe G2" (AG) flat-sealing, 4 transition screw connections to IG 1 1/2", 2 connections for air vents and KFE valve each Rp 1/2" and 1 connection for immersion sleeve 3/8" incl. heat insulation shells black pluggable, Breather, KFE tap, Diving tube, Flat gas- kets, Wall brackets and mounting material. For cascade systems larger than 10m ³ /h, a larger hydraulic diverter valve must be ins- talled by the customer in accordance with the required volume flow.	CGB-35, CGB-50, CGB-K40-35 (only used together with the cascade module KM) CGB-75, CGB-100 (only used together with the cascade module KM)	2011334	H40	760.00
	Pipe connection Between low loss header (4.5 m ³ /h) and manifold Consisting of: 2 thermally insulated pipes, pipe ends with flat gaskets and 1 1/2" union nuts incl. gas- kets		2011332	H40	106.00
	Threaded adaptor fitting Freely combinable, 1x flat gasket flange with 1 1/2" union nut and 1x with 1" female th- read. (1 set = 2 pce)		2012074	H40	27.60
	Gravity brake / non-return valve Brass, for installation between appliance flow and low loss header with 2 female th- readed connections 1". (Only in conjunction with KM cascade mo- dule)		201122899	H40	21.70

Accessories for wall-mounted gas boilers

	Description	for product	Art. no.	DG	€
	<p>Pipe assembly for heating circuit shut-off set consisting of: electric shut-off valve 230V, closed when de-energized Ball valves with thermometer in flow and return, gravity brake Design heat insulation shells made of EPP, group completely assembled, hydraulically and electrically tested; dimensions HxWxD: 384×250×260</p> <p>Connection flat at the bottom. 1½" top IG 1" transition screw connection $\Delta p = 110 \text{ mbar}$ at $V=1200 \text{ l/h}$ at $\Delta t 20 \text{ K}$ to approx. 27kW</p>	gas boilers and gas condensing units without low-loss header	2072195	H40	477.00
	<p>Pipe assembly for injection control for controlling the flow temperature (floor heating - wall heating) Distance between spigots: 125mm</p> <p>consisting of: Mixer, mixer motor and bypass piping, Design thermal insulation shells made of EPP</p> <p>Connections: Inlet 1½" AG flat sealing Outlet 1½" Transition screw joint flat-sealing</p> <p>overall height: 232mm $\Delta p = 86 \text{ mbar}$ at $V = 1200 \text{ l/h}$ at $\Delta t 20 \text{ K}$ to approx. 27kW Max. flow temperature in the mixer circuit 50°C</p> <p>Note: The following accessory should be used for the injection control pipe assembly in conjunction with a wall mounted boiler: Part no. 2072135 (heating circuit pipe assembly)</p>	gas boilers and gas condensing units without low-loss header	2072203	H40	540.00
	<p>Regulating valve In conjunction with injection control pipe assembly or heating circuit shut-off set pipe assembly; flow indicator 0-36 l/min</p> <p>Kvs value: 3.5</p> <p>Connections: Inlet 1½" male thread with flat gasket Outlet 1½" adaptor with flat gasket</p>	gas boilers and gas condensing units without low-loss header	2070433	H40	83.00

Accessories for wall-mounted gas boilers

	Description	for product	Art. no.	DG	€
	<p>Hydraulic separation For hydraulic separation of a floor heating circuit from the remaining parts of the heating system.</p> <p>consisting of: a plate heat exchanger, connection fittings, manual air vent, a corrugated tube hose, a cap valve, a safety group with connection pipe, seals and Design thermal insulation shells made of EPP;</p> <p>Transition capacity primarily 70/50°C, secondary 25/35°C.....25kW max. permissible operating overpressure 10 bar max. permissible operating temperature 110°C kvs-value: 4,3 distance between spigots: 125mm, overall height: 130mm</p> <p>For system separation in conjunction with a Boilers should have the following accessories for the primary circuit or the secondary circuit is used will be:</p> <p>Primary circuit (boiler circuit) Piping group Mixer circuit with high-efficiency pump DN25-60 (EEI <0.20). self-regulating (art.no.2072139)</p> <p>Secondary circuit (heating circuit) Piping group heating circuit for system separation with high-efficiency pump DN26-60 (EEI < 0.20), self-regulating (Art.No.2072138)</p>	Boiler	2072202	H40	855.00
	<p>3-way mixer For primary circuit (boiler circuit) For systems without low loss header, 3-way mixer DN25; Kvs value 4.0</p>	All gas boilers and gas condensing units	2070453	H40	132.00
	<p>Mixer motor 230 V~/50 Hz, 6 Nm For 3-way mixing valve and 4-way mixing valve, fully wired, 120 sec, 90° DN20 - DN50</p>	All boilers, gas heaters, BWL-1/BWS-1/BWW-1	2269715	H40	288.00
	<p>Secondary circuit (heating circuit) Piping group heating circuit for System separation with high efficiency pump DN25-60 (EEI < 0.20), self-regulating Distance between spigots: 125mm</p>	Boiler, Gas boiler	2072138	H40	1140.00

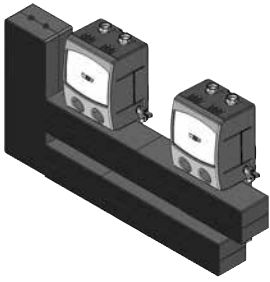
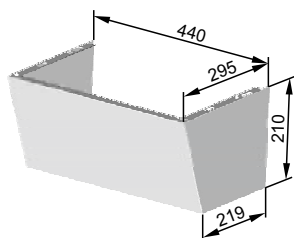
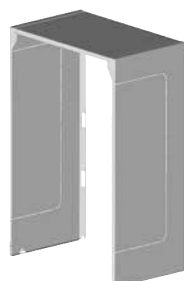
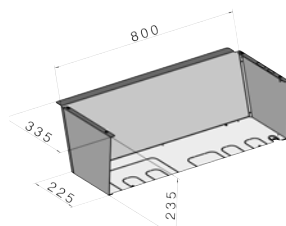
Accessories for wall-mounted gas boilers

	Description	for product	Art. no.	DG	€
	Connecting cable for external pump In combination with hydraulic separation	gas boilers and gas condensing units	2744178	H41	30.40
	Plug HKP (red) for external heating circuit pump	CGB-2, CGS-2, CGW-2 bis 24 kW	274523999	H41	10,35
	Pumpengruppe Heizkreis zum direkten Anschluss an die Gasbrennwerttherme bestehend aus: Hocheffizienzpumpe (EEI < 0,23) drehzahl-geregelt DN32-2", mit PWM- und Netzkabel Sicherheitsventil 3 bar, Absperrhähnen mit Thermometer, Rückschlagklappe, Manometer 0-10 bar, 1" Anschluss für Ausdehnungsgefäß, je ein KFE-Hahn im Vor- und Rücklauf, Anschluss oben flachdichtend mit Überwurfmutter 1 1/2", unten flachdichtend 2" mit Übergangsverschraubung auf IG 1 1/2" und EPP-Wärmedämmschalen Bauhöhe: 370mm	CGB-2-75/100	2075108	H40	1415.00
	Heating circuit connection assembly excl. pump for direct connection to the gas condensing boiler consisting of: Safety valve 3 bar, stopcocks with thermometer, non-return valve, manometer 0-10 bar, 1" connection for expansion vessel, one KFE valve each in flow and return, connection top flat-sealing with union nut 1 1/2", bottom flat-sealing 2" with transition screw connection to IG 1 1/2". overall height: 200mm	CGB-75/100 CGB-2-75/100 CGB-100	2070434	H40	505.00

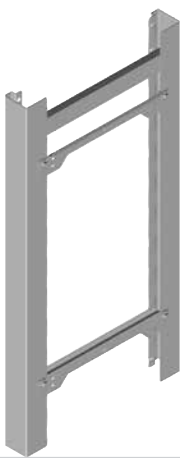
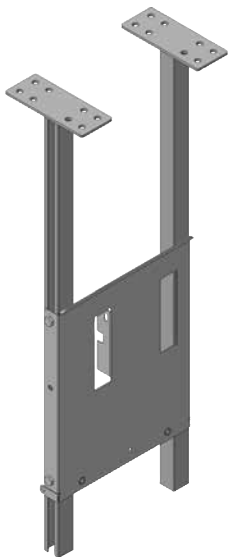


Accessories for wall-mounted gas boilers

	Description	for product	Art. no.	DG	€
	<p>Weichenset für Einzelgeräte (Rechts-/Linksanbau)</p> <p>bestehend aus: 1 Pumpengruppe Heizkreis (Art.-Nr. 2075108) Hocheffizienzpumpe (EEI < 0,23) drehzahl-geregelt DN32-2", mit PWM- und Netzkabel Sicherheitsventil 3 bar, Absperrhähne mit Thermometer, Rückschlagklappe, Manometer 0-10 bar, 1" Anschluss für Ausdehnungsgefäß, je ein KFE-Hahn im Vor- und Rücklauf, Anschluss oben flachdichtend mit Über-wurfmutter 1 1/2", unten flachdichtend 2" mit Übergangsver-schraubung auf IG 1 1/2" und EPP-Wärmedämmschalen 1 Hydraulische Weiche bis 10 m³/h (Art.Nr. 2011334) inkl. Wandhalterung und Wärmedämmscha-len 1 Verrohungsset inkl. Wandhalterung und Wärmedämmscha-len</p> <p>Bauhöhe: 805mm</p>	CGB-2-75/100	8616591	H40	2755.00
	<p>Weichenset für 2er Kaskadeneinheit (Rechtsanbau)</p> <p>bestehend aus: 2 Pumpengruppen Heizkreis (Art.-Nr. 2075108) Hocheffizienzpumpe (EEI < 0,23) drehzahl-geregelt DN32-2", mit PWM- und Netzkabel Sicherheitsventil 3 bar, Absperrhähne mit Thermometer, Rückschlagklappe, Manometer 0-10 bar, 1" Anschluss für Ausdehnungsgefäß, je ein KFE-Hahn im Vor- und Rücklauf, Anschluss oben flachdichtend mit Über-wurfmutter 1 1/2", unten flachdichtend 2" mit Übergangsver-schraubung auf IG 1 1/2" und EPP- Wärmedämmschalen 1 Hydraulische Weiche bis 10 m³/h (Art.Nr. 2011334) inkl. Wandhalterung und Wärmedämmscha-len 1 Verrohungsset 2er Kaskade inkl. Wandhalterung und Wärmedämmscha-len</p> <p>Bauhöhe: 805mm</p>	CGB-2-75/100	8616592	H40	5130.00






Accessories for wall-mounted gas boilers

	Description	for product	Art. no.	DG	€
	<p>Turnout set for 2-piece cascade unit (left attachment)</p> <p>consisting of:</p> <p>2 pump groups heating circuit (part no. 2075108)</p> <p>high efficiency pump (EEI < 0,23) speed controlled DN32-2", with PWM and power cable safety valve 3 bar, shut-off valves with thermometer, check valve, pressure gauge 0-10 bar, 1" connection for expansion tank, one KFE cock each in the flow and return, connection top flat sealing with union nut 1 1/2", bottom flat-sealing 2" with transition screw connection on IG 1 1/2" and EPP heat insulation shells 1 Hydraulic separator up to 10 m3/h (art.no. 2011334) incl. wall bracket and heat insulation shells 1 piping set 2er cascade incl. wall bracket and heat insulation shells</p> <p>construction height: 805mm</p>	CGB-2-75/100	8616593	H40	5130.00
	<p>Pipework cladding For cladding the connecting pipework</p>	CGB-2(K)	8614255	H40	176.00
	<p>Pipework cladding With knock-outs For connection on the left and right</p>	CGS-2	8614144	H40	160.00
	<p>Pipework cladding With knock-outs for connections, incl. screws for on-site installation</p> <p>Dimensions: 235 × 8 × 335 mm (H x W x D)</p>	CGW-2	8614210	H40	172.00




Accessories for wall-mounted gas boilers

	Description	for product	Art. no.	DG	€
	Spacing frame 65 mm If more space is required when fitting to third party equipment	All gas boilers (without	8613063	H40	112.00
		CGB-2(K) CGB-2(K)	8614265	H40	114.00
	Appliance bracket <ul style="list-style-type: none"> For fastening the wall units to the ceiling before laying the screed Screed drying without storage possible Installation of the storage tank only after completion of the floor coverings Mounting possibility for expansion tank 25 ltr. in combination with CEW-2-200 suitable for carcass heights from 2,50m to 2,75m for fixing the wall units to the floor Device distance to the floor max. 400mm Mounting possibility for expansion tank 25 ltr. 	BWL-1S(B)	2484830	H31	265.00
	Accessories for adaptation to Junkers Types ZWR 18/24-2, 3, 4, 5, 6 and ZWBR 28-1, 2 For flush and surface mounting Consisting of: Cold water and DHW connection, heating circuit connection, safety valve, locking ring fittings	CGB-2K-20, CGB-2K-24 CGU-2K	8600418	H40	145.00
	Accessories for adaptation to Junkers Types ZR or ZSR 18/24-2, 3, 4, 5, 6 and ZBR 28-1, 2 For flush and surface mounting Consisting of: Heating circuit connection, safety valve, locking ring fittings	CGB-2-14, CGB-2-20, CGB-2-24	8600417	H40	96.00

Accessories for wall-mounted gas boilers

	Description	for product	Art. no.	DG	€
	Accessories for adaptation to Vaillant Types VC/VCW 18, 24, 28 For flush and surface mounting Consisting of: Locking ring fitting Ø 15 with reducer to 3/4" and 1" threads	CGB-2-14, CGB-2-20, CGB-2-24 CGB-2K-20, CGB-2K-24 CGU-2K	8600704	H40	50.00
	Calorimeter kit for yield measurement consisting of: Flow meter with connecting pipework, return contact sensor (NTC 5K), 2 union connections with male thread 1/2"	CSZ-2	7701129	H40	341.00
	Neutraliser with fastening clips Up to 35kW 35 to 50 kW 50 to 150 kW 100 to 300 kW	Al gas condensing boilers Al gas condensing boilers Gas condensing boilers CGB-75, CGB-100, Al gas condensing boilers	2400370 2482404 2483072 2482873	H40 H40 H40 H40	371.00 433.00 492.00 640.00
	Refill pack for neutraliser consumption: approx. 10g - 30g per kW and year Refill pack 1.3 kg Refill pack 5 kg	Neutraliser Neutraliser	2400371 2484538	H40 H40	37.60 98.00
	Condensate pump with potential-free, fully wired alarm output Consisting of: Condensate pump with floating alarm output, condensate tank with lid and wall retainer, PVC hose 10 mm (6 m long), non-return valve, condensate inlet adaptor	TLHK-EC, TLHK, CWL Excellent, CWL-2, CWL-F/T-Excellent, COB-2, TOB, TGB-2	2071268	H40	290.00

Accessories for wall-mounted gas boilers

	Description	for product	Art. no.	DG	€
	Expansion vessels For heating systems 1.5 bar pre-charge pressure, 90°C flow temperature				
	25 l for heating systems up to 235 l		2400450	H40	105.00
	35 l for heating systems up to 320 l		2400455	H40	111.00
	50 l for heating systems up to 470 l		2400458	H40	144.00
	80 l for heating systems up to 750 l		2400462	H40	196.00
	100 l for heating systems up to 850 l		2400470	H40	387.00
	140 l for heating systems up to 1210 l		2400471	H40	458.00
	200 l Sizing according to heating system		2400472	H40	550.00
	Expansion vessels For heating systems 1.5 bar pre-charge pressure, 90°C flow temperature				
	Sizing according to heating system				
	250 l		2400473	H40	780.00
	300 l		2400481	H40	930.00
	400 l		2483708	H40	1250.00
	500 l		2483709	H40	1560.00
	600 l		2483713	H40	2375.00
	Connection kit for expansion vessel Consisting of: flexible corrugated stainless steel pipe (1 m long), threaded adaptors suitable for heat generator and expansion vessel.				
	Additionally with cap valve 3/4" – 25-50 l		2012080	H40	144.00
	Additionally with cap valve 1" – from 80 l		2012081	H40	203.00
	Expansion vessels for hot water, flow-through, operating pressure 10 bar, inlet pressure 4 bar, connection 3/4" external thread, incl. installation material.				
	Content 8 l up to 160 l		2400476	H40	287.00
	Content 12 l up to 200 l		2400477	H40	307.00
	Content 18 l up to 500 l		2400478	H40	329.00
	Note: Only in conjunction with diaphragm safety valve, 10 bar response pressure				
	Connection kit fittings FOR PLATE HEAT EXCHANGER 1 set = 4 pce				
	Welding connection (St 52-3) 1"	SL32 - ... up to 120kW	2071945	H42	97.00
	Welding connection (St 52-3) 2"	up to 320kW	2071946	H42	187.00
	Welding connection (St 52-3) 2 1/2"	up to 1020kW	2071947	H42	221.00
	Threaded connection (brass, male thread) 1"	up to 120kW	2071984	H42	97.00
	Threaded connection (brass, male thread) 2"	up to 320kW	2071985	H42	214.00
	Threaded connection (brass, male thread) 2 1/2"	up to 1020kW	2071986	H42	254.00

Accessories for wall-mounted gas boilers

Stainless steel plate heat exchanger for hydraulic separation incl. insulating hood and base fixing

consisting of:

- copper brazed plate heat exchanger
- Mounting set
- ISO insulation bonnet with aluminium sheet metal housing with mineral wool insulation and quick release fasteners

Design for temperature conditions

- primary 85°C/65°C
- Secondary 60°C/75°C
- max. operating pressure 10bar
- max. operating temperature 110°C



Output type kW	Height x Width m ²	Pressure drop primary / secondary kPa	Connections primary / secondary	Art. no.	€	DG
15	313 × 113	3 / 6	G 1" / G 1"	2071884	485.00	H42
25	313 × 113	3 / 6	G 1" / G 1"	2071885	550.00	H42
35	313 × 113	3 / 6	G 1" / G 1"	2071886	635.00	H42
50	313 × 113	7 / 10	G 1" / G 1"	2071887	690.00	H42
75	313 × 113	7 / 10	G 1" / G 1"	2071888	735.00	H42
100	313 × 113	7 / 10	G 1" / G 1"	2071889	855.00	H42
120	313 × 113	8 / 14	G 1" / G 1"	2071890	990.00	H42



Output type kW	Height x Width m ²	Pressure drop primary / secondary kPa	Connections primary / secondary	Art. no.	€	DG
200	616 × 191	12 / 19	G 2" / G 2"	2074841	2130.00	H42
280	616 × 191	12 / 19	G 2" / G 2"	2074842	2630.00	H42
320	616 × 191	12 / 19	G 2" / G 2"	2074843	2785.00	H42



Output type kW	Height x Width m ²	Pressure drop primary / secondary kPa	Connections primary / secondary	Art. no.	€	DG
400	611 × 242	8,0 / 14	G 2½" / G 2½"	2071896	2995.00	H42
450	611 × 242	9,2 / 15	G 2½" / G 2½"	2071897	3535.00	H42
500	611 × 242	8,5 / 14,4	G 2½" / G 2½"	2071898	3785.00	H42
600	611 × 242	8,7 / 14,9	G 2½" / G 2½"	2071899	4675.00	H42
730	611 × 242	8,0 / 15,0	G 2½" / G 2½"	2071900	5320.00	H42
870	611 × 242	8,0 / 15,0	G 2½" / G 2½"	2071901	6330.00	H42
1020	611 × 242	8,9 / 14,4	G 2½" / G 2½"	2071902	6840.00	H42



Output type kW	Height x Width m ²	Pressure drop primary / secondary kPa	Connections primary / secondary	Art. no.	€	DG
1180	1180 × 474	8,5 / 14,0	DN 100 - PN 16 *	2071903	10905.00	H42

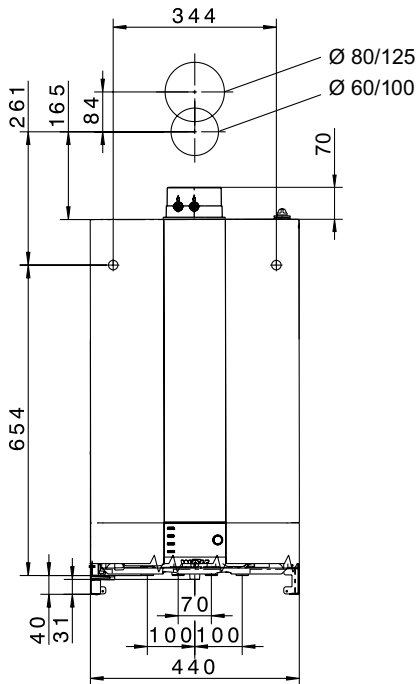
* Part no. 2071903 contains mating flanges (special flanges) as part of the standard delivery.

Technical Data

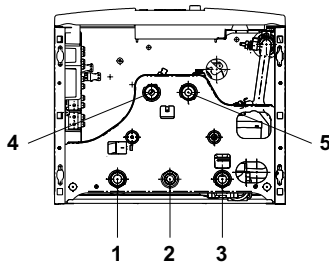
Gas condensing boilers

CGB-2-14/20/24

CGB-2K-20/24



CGB-2

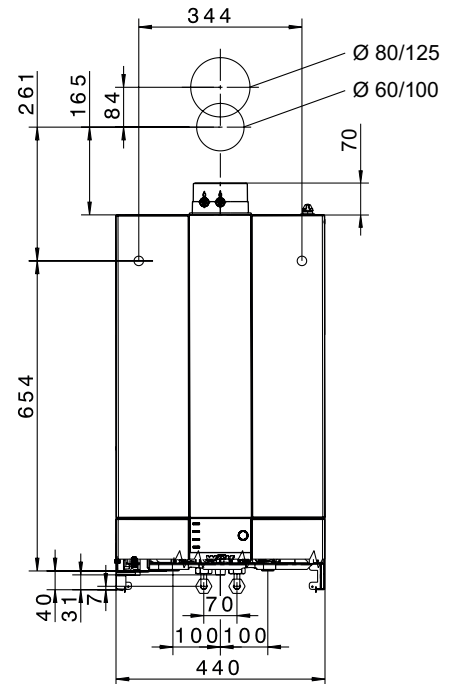


CGB-2:

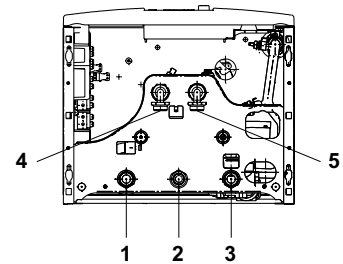
- 1 Heating flow G $\frac{3}{4}$ "
- 2 Gas connection R $\frac{1}{2}$ "
- 3 Heating return G $\frac{3}{4}$ "
- 4 Storage tank flow G $\frac{3}{4}$ "
- 5 Accumulator return G $\frac{3}{4}$ "

CGB-2K:

- 1 Heating flow G $\frac{3}{4}$ "
- 2 Gas connection R $\frac{1}{2}$ "
- 3 Heating return G $\frac{3}{4}$ "
- 4 Hot water connection with connection angle G $\frac{3}{4}$ ".
- 5 Cold water connection with connection angle G $\frac{3}{4}$ ".



CGB-2K



TYPE	CGB-2	14	20	24	K-20	K-24
Dimensions						
Depth	mm	378	378	378	378	378
Width	mm	440	440	440	440	440
Height	mm	790	790	790	790	790
Heating flow connection	G	¾" (DN20)	¾" (DN20)	¾" (DN20)	¾" (DN20)	¾" (DN20)
Heating return connection	G	¾" (DN20)	¾" (DN20)	¾" (DN20)	¾" (DN20)	¾" (DN20)
Cold water connection / circulation	G	¾"	¾"	¾"	¾"	¾"
Cold water connection	G	¾"	¾"	¾"	¾"	¾"
Gas connection	R	½"	½"	½"	½"	½"
Air/flue gas pipe connection	mm	60/100	60/100	60/100	60/100	60/100
Air/flue gas duct	Typ	B23P, B33P, C13(x), C33(x), C43(x), C53(x), C63(x), C83(x), C93(x), C(10)3x, C(11)3x				
Weight						
Weight unit	kg	33	33	33	35	35

Technical Data

Gas condensing boilers CGB-2-14/20/24 CGB-2K-20/24

TYPE	CGB-2	14	20	24	K-20	K-24
Technical data						
Energy efficiency class space heating		A	A	A	A	A
Energy efficiency class hot water heating		-	-	-	A	A
Space heating energy efficiency η_s	%	93	93	93	93	93
Nominal heat output at 80/60°C	kW	13,5	18,9/22,2 ¹⁾	23,8/27,1 ¹⁾	18,9/22,2 ¹⁾	23,8/27,1 ¹⁾
Nominal heat load at 50/30°C	kW	15,2	20,4	25,8	20,4	25,8
Nominal heat load	kW	14	19,6/23,0	24,6/28,0	19,6/23,0	24,6/28,0
Minimum heat output (modulating)						
at 80/60°C	kW	1,8/4,6 ²⁾	3,8/6,8 ²⁾	4,8/6,8 ²⁾	3,8/6,8 ²⁾	4,8/6,8 ²⁾
at 50/30°C	kW	2,1/5,4 ²⁾	4,4/7,4 ²⁾	5,6/7,4 ²⁾	4,4/7,4 ²⁾	5,6/7,4 ²⁾
Smallest heat load (modulating)	kW	1,9/4,9 ²⁾	3,9/6,9 ²⁾	4,9/6,9 ²⁾	3,9/6,9 ²⁾	4,9/6,9 ²⁾
Gas category		II _{2N3P}	II _{2N3P}	II _{2N3P}	II _{2N3P}	II _{2N3P}
Gas connection value						
Natural gas E/H (Hi=9,5kWh/m ³ =34,2MJ/m ³)	m ³ /h	1,44	2,06/2,42	2,52/2,95	2,06/2,42	2,52/2,95
Natural gas LL (Hi=8,6kWh/m ³ =31,0MJ/m ³)	m ³ /h	1,59	2,28/2,67	2,79/3,25	2,28/2,67	2,79/3,25
Liquid gas P (Hi=12,8kWh/m ³ =46,1MJ/m ³)	kg/h	1,07	1,53/1,80	1,87/2,19	1,53/1,80	1,87/2,19
Gas connection pressure						
Natural gas (min-max permissible)	mbar	20 (17-25)	20 (17-25)	20 (17-25)	20 (17-25)	20 (17-25)
Liquid gas (min-max permissible)	mbar	50 (42,5-57,5)	50 (42,5-57,5)	50 (42,5-57,5)	50 (42,5-57,5)	50 (42,5-57,5)
Standard efficiency at 40/30°C (Hi/Hs)	%	110/99	110/99	110/99	110/99	110/99
Standard efficiency at 75/60°C (Hi/Hs)	%	107/96	107/96	107/96	107/96	107/96
Efficiency						
at nominal load at 80/60°C (Hi/Hs)	%	98/88	98/88	98/88	98/88	98/88
at 30% part load and TR=30°C (Hi/Hs)	%	108/97	108/97	108/97	108/97	108/97
Flow temperature factory setting	°C	75	75	75	75	75
Flow temperature up to approx.	°C	90	90	90	90	90
max. total overpressure	bar	3	3	3	3	3
max. residual head for heating circuit:						
High efficiency pump (EEI <0.23)						
600 l/h flow rate (14kW at $\Delta t=20K$)	mbar	550	550	550	550	550
860 l/h flow rate (20kW at $\Delta t=20K$)	mbar	-	430	430	430	430
1030 l/h flow rate (24kW at $\Delta t=20K$)	mbar	-	-	280	-	280
Hot water flow rate	l/min	-	-	-	2,0-6,5	2,0-8,0
Minimum flow pressure according to EN 625	bar	-	-	-	0,4	0,65
Spec. water flow rate D at $\Delta T=30K$	l/min	-	-	-	10,3	13
max. permissible total overpressure hot water	bar	-	-	-	10	10
Hot water temperature range (adjustable)	°C	-	-	-	45-65	45-65
Hot water capacity	Ltr.	1,3	1,3	1,3	1,3	1,3
of the heating water heat exchanger	Ltr.	10	10	10	10	10
Expansion vessel total content	bar	0,75-0,95	0,75-0,95	0,75-0,95	0,75-0,95	0,75-0,95
Expansion vessel inlet pressure	°C	62-45	70-50	76-50	70-50	76-50
Exhaust gas temperature 80/60-50/30 at Qmax	°C	30-25	30-25	33-27	30-25	33-27
Flue gas temperature 80/60-50/30 at Qmin	g/s	6,2	8,8/10,7 ¹⁾	10,9/13,0 ¹⁾	8,8/10,7 ¹⁾	10,9/13,0 ¹⁾
Exhaust gas mass flow at Qmax	g/s	0,9	1,8	2,3	1,8	2,3
Exhaust gas mass flow at Qmin						
Available delivery pressure of the gas blower	Pa	125	135	180	135	180
at Qmax	Pa	10	14	17	14	17
at Qmin		G52	G52	G52	G52	G52
Exhaust gas valve group		6	6	6	6	6
NOx class	Ltr./h	ca. 1,4	ca. 2,0	ca. 2,4	ca. 2,0	ca. 2,4
amount of condensate at 50/30°C		ca. 4,0	ca. 4,0	ca. 4,0	ca. 4,0	ca. 4,0
pH value of condensate	W	3	3	3	3	3
Electrical power consumption standby	W	17-45/59 ¹⁾	17-51/63 ¹⁾	17-62/88 ¹⁾	17-51/63 ¹⁾	17-62/88 ¹⁾
Electrical power consumption maximum	IP	IPX4D	IPX4D	IPX4D	IPX4D	IPX4D
Protection class		CE-0085C00098				
CE identification number						

¹⁾ Heating mode/hot water mode

²⁾ Natural gas/liquid gas (G31)

The requirements of proKlima and KfW are met.

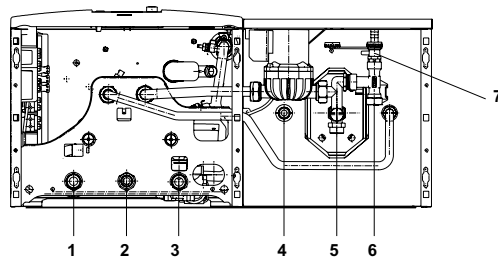
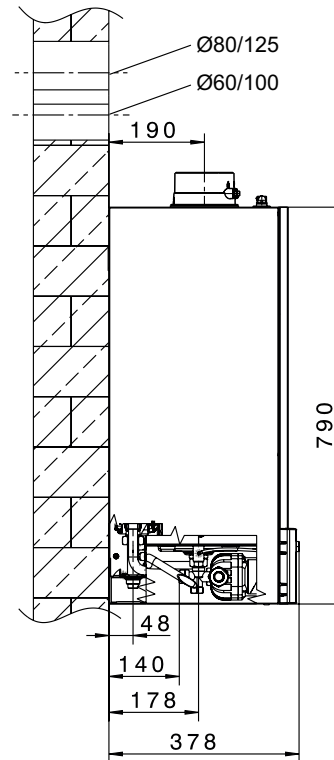
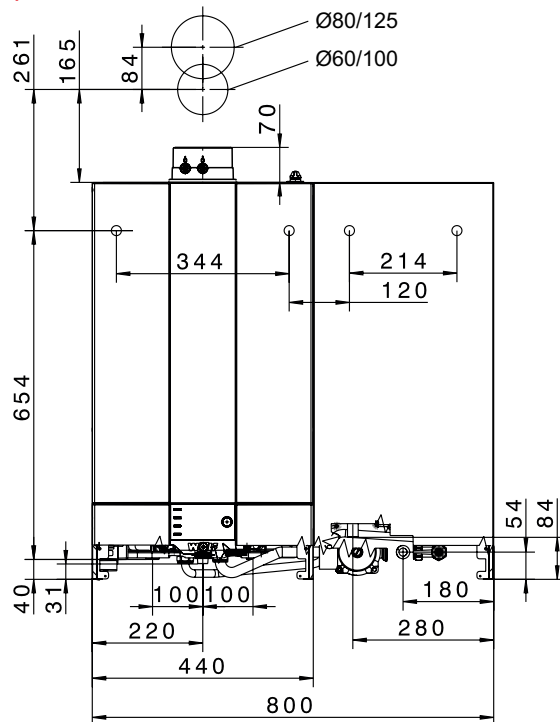
Technical Data

Gas condensing boilers

CGW-2-14/100L

CGW-2-20/120L

CGW-2-24/140L



- 1 Heating flow G $\frac{3}{4}$ "
- 2 Gas connection R $\frac{1}{2}$ "
- 3 Heating return G $\frac{3}{4}$ "
- 4 Hot water connection G $\frac{1}{2}$ "
- 5 Cold water connection G $\frac{3}{4}$ "
- 6 Circulation connection G $\frac{3}{4}$ "
- 7 Fill/drain cock

TYPE	CGW-2	14/100L	20/120L	24/140L
Dimensions				
Depth	mm	378	378	378
Width	mm	800	800	800
Height	mm	790	790	790
Heating flow connection	G	¾" (DN20)	¾" (DN20)	¾" (DN20)
Heating return connection	G	¾" (DN20)	¾" (DN20)	¾" (DN20)
Cold water connection / circulation	G	½"	½"	½"
Cold water connection	G	¾"	¾"	¾"
Gas connection	R	½"	½"	½"
Air/flue gas pipe connection	mm	60/100	60/100	60/100
Air/flue gas duct	Typ	B23P, B33P, C13(x), C33(x), C43(x), 53(x), C63(x), C83(x), C93(x), C(10)3x, C(11)3x		
Weight				
Total weight	kg	54 (35+19)	54 (35+19)	54 (35+19)

Technical Data

Gas condensing boilers
CGW-2-14/100L
CGW-2-20/120L
CGW-2-24/140L

GAS-
THERMEN

TYPE	CGW-2	14/100L	20/120L	24/140L
Technical Data				
Energy efficiency class space heating		A	A	A
Energy efficiency class hot water heating		A	A	A
Space heating energy efficiency η_s	%	93	93	93
Nominal heat output at 80/60°C	kW	13,5	18,9/22,2 ¹⁾	23,8/27,1 ¹⁾
Nominal heat load at 50/30°C	kW	15,2	20,4	25,8
Nominal heat load	kW	14	19,6/23,0 ¹⁾	24,6/28,0 ¹⁾
Minimum heat output (modulating)				
at 80/60°C	kW	1,8/4,6 ²⁾	3,8/6,8 ²⁾	4,8/6,8 ²⁾
at 50/30°C	kW	2,1/5,4 ²⁾	4,4/7,4 ²⁾	5,6/7,4 ²⁾
Gas category		II _{2N3P}	II _{2N3P}	II _{2N3P}
Gas connection value				
natural gas E/H (Hi=9,5kWh/m ³ =34,2MJ/m ³)	m ³ /h	1,44	2,06/2,42	2,52/2,95
Natural gas LL (Hi=8,6kWh/m ³ =31,0MJ/m ³)	m ³ /h	1,59	2,28/2,67	2,79/3,25
Liquid gas P (Hi=12,8kWh/m ³ =46,1MJ/m ³)	kg/h	1,07	1,53/1,80	1,87/2,19
Gas connection pressure				
Natural gas (min-max permissible)	mbar	20 (17-25)	20 (17-25)	20 (17-25)
Liquid gas (min-max permissible)	mbar	50 (42,5-57,5)	50 (42,5-57,5)	50 (42,5-57,5)
Standard efficiency at 40/30°C (Hi/Hs)	%	110/99	110/99	110/99
Standard efficiency at 75/60°C (Hi/Hs)	%	107/96	107/96	107/96
Efficiency				
at nominal load at 80/60°C (Hi/Hs)	%	98/88	98/88	98/88
at 30% part load and TR=30°C (Hi/Hs)	%	108/97	108/97	108/97
Flow temperature factory setting	°C	75	75	75
Flow temperature up to approx.	°C	90	90	90
max. total overpressure	bar	3	3	3
max. residual head for heating circuit:				
High efficiency pump (EEI <0.20)				
600 l/h flow rate (14kW at $\Delta t=20K$)	mbar	550	550	550
860 l/h flow rate (20kW at $\Delta t=20K$)	mbar	-	430	430
1030 l/h flow rate (24kW at $\Delta t=20K$)	mbar	-	-	280
max. permissible total overpressure hot water	bar	10	10	10
Hot water temperature range (adjustable)	°C	15-65	15-65	15-65
water content of the heating water heat exchanger	Ltr.	1,3	1,3	1,3
nominal content of the stratified storage tank / equivalent nominal capacity	Ltr.	44 / 100	44 / 120	44 / 140
Spec. water flow rate "D" at $\Delta T = 30K$	l/h (kW)	366 (14,6)	560 (23,1)	684 (27,8)
Hot water continuous output	NL	0,8	1,1	1,5
Performance index according to DIN 4708	l/10 min	115	150	171
Hot water output power	kWh/24 h	0,8	0,8	0,8
Stand-by heat input according to DIN EN 12897		Edelstahl	Edelstahl	Edelstahl
Corrosion protection Hot water heat exchanger / Storage tank	Ltr.	10	10	10
	bar	0,75-0,95	0,75-0,95	0,75-0,95

Technical Data

Gas condensing boilers

CGW-2-14/100L

CGW-2-20/120L

CGW-2-24/140L

TYPE	CGW-2	14/100L	20/120L	24/140L
Technical Data				
Exhaust gas temperature 80/60-50/30 at Q _{max}	°C	62-45	70-50	76-50
Exhaust gas temperature 80/60-50/30 at Q _{min}	°C	30-25	30-25	33-27
Exhaust gas mass flow at Q _{max}	g/s	6,2	8,8/10,7 ¹⁾	10,9/13,0 ¹⁾
Exhaust gas mass flow at Q _{min}	g/s	0,9	1,8	2,3
Available delivery pressure of the gas blower				
at Q _{max}	Pa	125	135	180
at Q _{min}	Pa	10	14	17
Exhaust gas valve group		G52	G52	G52
NOx class		6	6	6
amount of condensate at 50/30°C		ca. 1,4	ca. 2,0	ca. 2,4
pH value of condensate		ca. 4,0	ca. 4,0	ca. 4,0
Electrical power consumption standby	W	3	3	3
Electrical power consumption maximum	W	17-45/93 ¹⁾	17-51/110 ¹⁾	17-62/135 ¹⁾
Protection class	IP	IPX4D	IPX4D	IPX4D
Electrical connection/fuse protection		230V / 50Hz / 16A/B	230V / 50Hz / 16A/B	230V / 50Hz / 16A/B
CE identification number		CE-0085CO0098		

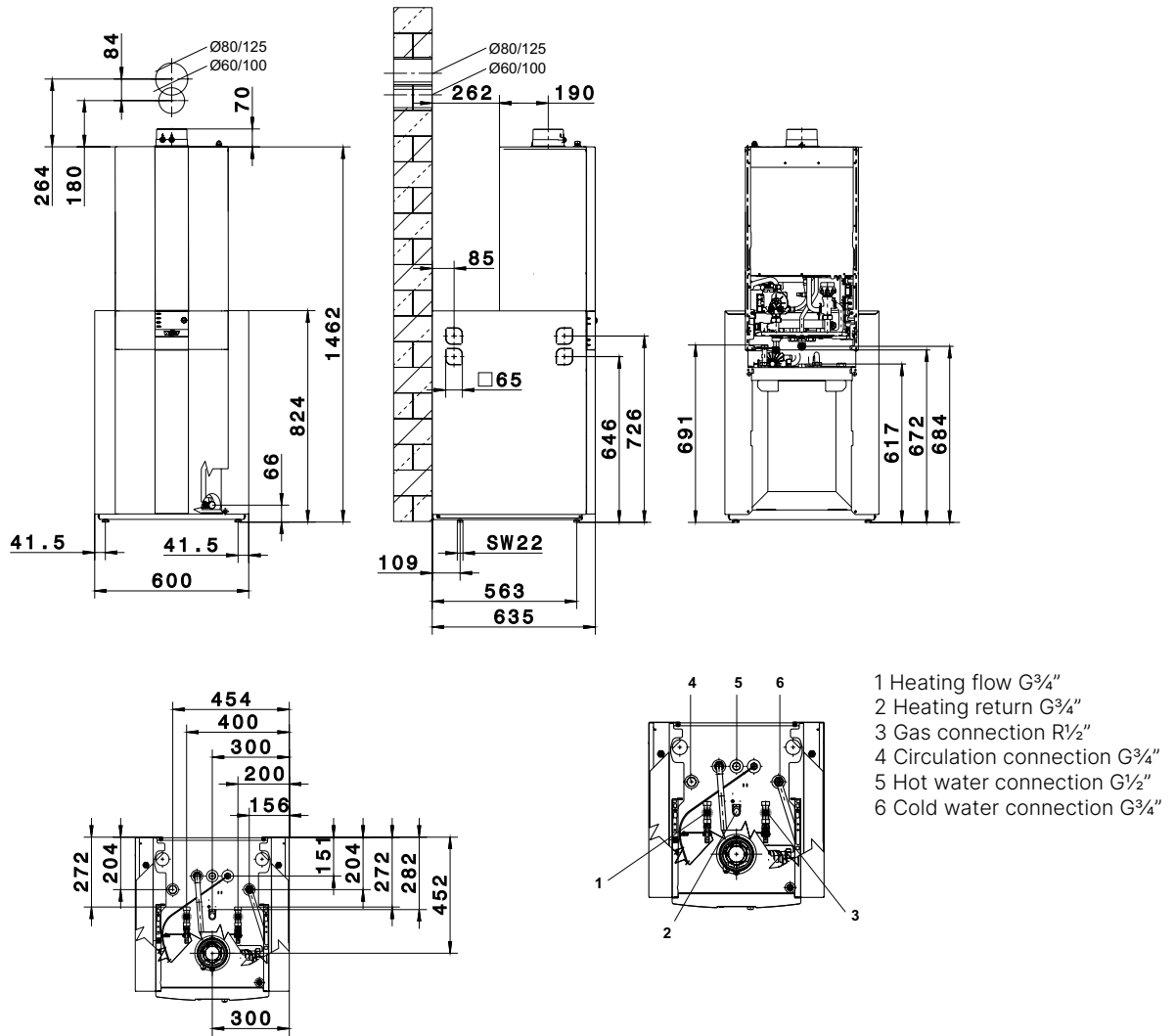
¹⁾ Heating mode/hot water mode

²⁾ Natural gas/liquid gas (G31)

The requirements of proKlima and KfW are met.

Technical Data

Gas condensing boilers CGS-2L



TYPE	CGS-2	14/150L	20/150L	24/150L
Dimensions				
Depth	mm	635	635	635
Width	mm	600	600	600
Height	mm	1462	1462	1462
Heating flow connection	G	¾" (DN20)	¾" (DN20)	¾" (DN20)
Heating return connection	G	¾" (DN20)	¾" (DN20)	¾" (DN20)
Cold water connection / circulation	G	¾"	¾"	¾"
Cold water connection	G	¾"	¾"	¾"
Gas connection	R	½"	½"	½"
Air/flue gas pipe connection	mm	60/100	60/100	60/100
Air/flue gas duct	Typ	B23P, B33P, C13(x), C33(x), C43(x), 53(x), C63(x), C83(x), C93(x), C(10)3x, C(11)3x		
Weight				
Total weight	kg	84 (35+49)	84 (35+49)	84 (35+49)

Technical Data

Gas condensing boilers CGS-2L

TYPE	CGS-2	14/150L	20/150L	24/150L
Technical Data				
Energy efficiency class space heating		A	A	A
Energy efficiency class hot water heating		A	A	A
Space heating energy efficiency η_s	%	93	93	93
Nominal heat output at 80/60°C	kW	13,5	18,9/22,2 ¹⁾	23,8/27,1 ¹⁾
Nominal heat load at 50/30°C	kW	15,2	20,4	25,8
Nominal heat load	kW	14	19,6/23,0 ¹⁾	24,6/28,0 ¹⁾
Minimum heat output (modulating)				
at 80/60°C	kW	1,8/4,6 ²⁾	3,8/6,8 ²⁾	4,8/6,8 ²⁾
at 50/30°C	kW	2,1/5,4 ²⁾	4,4/7,4 ²⁾	5,6/7,4 ²⁾
smallest heat load (modulating)	kW	1,9/4,9 ²⁾	3,9/6,9 ²⁾	4,9/6,9 ²⁾
Gas category		II _{2N3P}	II _{2N3P}	II _{2N3P}
Gas connection value				
natural gas E/H (Hi=9,5kWh/m ³ =34,2MJ/m ³)	m ³ /h	1,44	2,06/2,42	2,52/2,95
Natural gas LL (Hi=8,6kWh/m ³ =31,0MJ/m ³)	m ³ /h	1,59	2,28/2,67	2,79/3,25
Liquid gas P (Hi=12,8kWh/m ³ =46,1MJ/m ³)	kg/h	1,07	1,53/1,80	1,87/2,19
Gas connection pressure				
Natural gas (min-max permissible)	mbar	20 (17-25)	20 (17-25)	20 (17-25)
Liquid gas (min-max permissible)	mbar	50 (42,5-57,5)	50 (42,5-57,5)	50 (42,5-57,5)
Standard efficiency at 40/30°C (Hi/Hs)	%	110/99	110/99	110/99
Standard efficiency at 75/60°C (Hi/Hs)	%	107/96	107/96	107/96
Efficiency				
at nominal load at 80/60°C (Hi/Hs)	%	98/88	98/88	98/88
at 30% part load and TR=30°C (Hi/Hs)	%	108/97	108/97	108/97
Flow temperature factory setting	°C	75	75	75
Flow temperature up to approx.	°C	90	90	90
max. total overpressure heating circuit	bar	3	3	3
Residual head for heating circuit: high-efficiency pump (EEI <0,20)				
600 l/h flow rate (14kW at $\Delta t=20K$)	mbar	550	550	550
860 l/h flow rate (20kW at $\Delta t=20K$)	mbar	-	430	430
1030 l/h flow rate (24kW at $\Delta t=20K$)	mbar	-	-	280
max. permissible total overpressure hot water	bar	10	10	10
Hot water temperature range (adjustable)	°C	15-65	15-65	15-65
water content of the heating water heat exchanger	Ltr.	1,3	1,3	1,3
nominal content of the	Ltr.	90 / 120	90 / 160	90 / 200
Pipe coil storage tank / Equivalent nominal capacity	l/min	18,7	23,2	25,2
Spec. water flow rate "D" at $\Delta T = 30K$	l/h (kW)	366 (14,6)	560 (23,1)	684 (27,8)
Hot water continuous output according to DIN 4708	NL	1,3	2,1	2,5
Performance index according to DIN 4708	l/10 min	161	199	215
Hot water output capacity	kWh/24 h	1	1	1
Stand-by heat input according to DIN EN 12897		Stainless steel / double-layer enamelling according to DIN 4753		
Corrosion protection Hot water heat exchanger /	Ltr.	10	10	10
Storage tank	bar	0,75-0,95	0,75-0,95	0,75-0,95

Technical Data

Gas condensing boilers CGS-2L

TYPE	CGW-2	14/100L	20/120L	24/140L
Technical Data				
Exhaust gas temperature 80/60-50/30 at Q _{max}	°C	62-45	70-50	76-50
Exhaust gas temperature 80/60-50/30 at Q _{min}	°C	30-25	30-25	33-27
Exhaust gas mass flow at Q _{max}	g/s	6,2	8,8/10,7 1)	10,9/13,0 1)
Exhaust gas mass flow at Q _{min}	g/s	0,9	1,8	2,3
Available delivery pressure of the gas blower				
at Q _{max}	Pa	125	135	180
at Q _{min}	Pa	10	14	17
Exhaust gas value group		G52	G52	G52
NO _x class		6	6	6
amount of condensate at 50/30°C	Ltr./h	ca. 1,4	ca. 2,0	ca. 2,4
pH value of condensate		ca. 4,0	ca. 4,0	ca. 4,0
Electrical power consumption standby	W	3	3	3
Electrical power consumption maximum	W	17-45/93 1)	17-51/110 1)	17-62/135 1)
Protection class	IP	IPX4D	IPX4D	IPX4D
Electrical connection/fuse protection		230V / 50Hz / 16A/B	230V / 50Hz / 16A/B	230V / 50Hz / 16A/B
CE identification number			CE-0085CO0098	

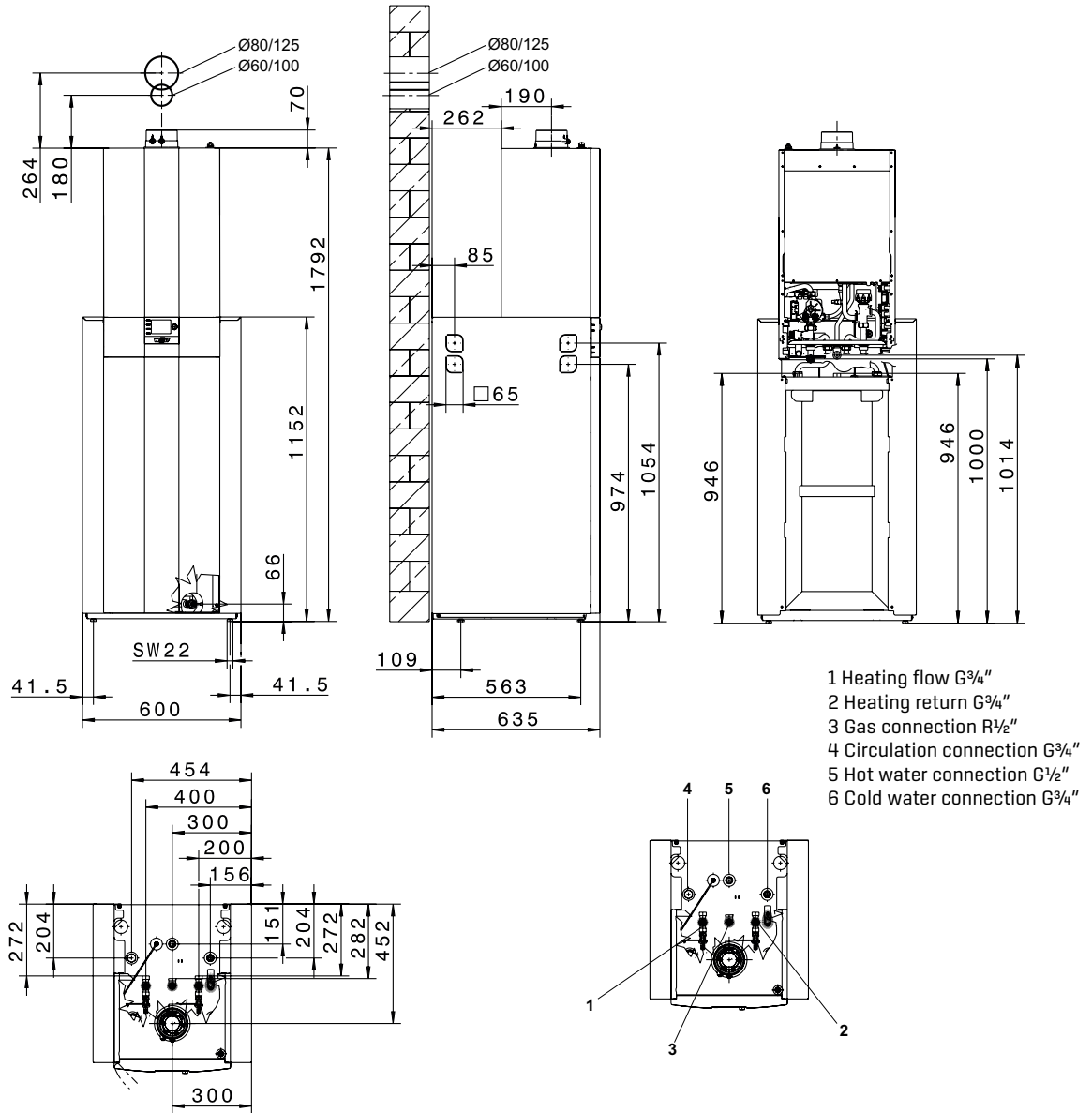
¹⁾ Heating mode/hot water mode

²⁾ Natural gas/liquid gas (G31)

The requirements of proKlima and KfW are met.

Technical Data

Gas condensing boilers CGS-2R



TYPE	CGS-2	14/150R	20/150R	24/150R
Dimensions				
Depth	mm	635	635	635
Width	mm	600	600	600
Height	mm	1792	1792	1792
Heating flow connection	G	¾" (DN20)	¾" (DN20)	¾" (DN20)
Heating return connection	G	¾"	¾"	¾"
Cold water connection / circulation	G	¾"	¾"	¾"
Cold water connection	R	½"	½"	½"
Gas connection	mm	60/100	60/100	60/100
Air/flue gas pipe connection				
Air/flue gas duct	Typ	B23P, B33P, C13(x), C33(x), C43(x), C53(x), C63(x), C83(x), C93(x), C(10)3x, C(11)3x		
Weight				
Total weight	kg	115 (35+80)	115 (35+80)	115 (35+80)

Technical Data

Gas condensing boilers CGS-2R

TYPE	CGS-2	14/150R	20/150R	24/150R
Technical Data				
Energy efficiency class space heating		A	A	A
Energy efficiency class hot water heating		A	A	A
Space heating energy efficiency η_s	%	93	93	93
Nominal heat output at 80/60°C	kW	13,5	18,9/22,2 ¹⁾	23,8/27,1 ¹⁾
Nominal heat load at 50/30°C	kW	15,2	20,4	25,8
Nominal heat load	kW	14	19,6/23,0 ¹⁾	24,6/28,0 ¹⁾
Minimum heat output (modulating)				
at 80/60°C	kW	1,8/4,6 ²⁾	3,8/6,8 ²⁾	4,8/6,8 ²⁾
at 50/30°C	kW	2,1/5,4 ²⁾	4,4/7,4 ²⁾	5,6/7,4 ²⁾
Smallest heat load (modulating)	kW	1,9/4,9 ²⁾	3,9/6,9 ²⁾	4,9/6,9 ²⁾
Gas category		II _{2N3P}	II _{2N3P}	II _{2N3P}
Gas connection value				
Natural gas E/H (Hi=9,5kWh/m ³ =34,2MJ/m ³)	m ³ /h	1,44	2,06/2,42	2,52/2,95
Natural gas LL (Hi=8,6kWh/m ³ =31,0MJ/m ³)	m ³ /h	1,59	2,28/2,67	2,79/3,25
Liquid gas P (Hi=12,8kWh/m ³ =46,1MJ/m ³)	kg/h	1,07	1,53/1,80	1,87/2,19
Gas connection pressure				
Natural gas (min-max permissible)	mbar	20 (17-25)	20 (17-25)	20 (17-25)
Liquid gas (min-max permissible)	mbar	50 (42,5-57,5)	50 (42,5-57,5)	50 (42,5-57,5)
Standard efficiency at 40/30°C (Hi/Hs)	%	110/99	110/99	110/99
Standard efficiency at 75/60°C (Hi/Hs)	%	107/96	107/96	107/96
Efficiency				
at nominal load at 80/60°C (Hi/Hs)	%	98/88	98/88	98/88
at 30% part load and TR=30°C (Hi/Hs)	%	108/97	108/97	108/97
Flow temperature factory setting	°C	75	75	75
Flow temperature up to approx.	°C	90	90	90
max. total overpressure heating circuit	bar	3	3	3
Residual head for heating circuit: high-efficiency pump (EEI <0.20)				
600 l/h flow rate (14kW at $\Delta t=20K$)	mbar	550	550	550
860 l/h flow rate (20kW at $\Delta t=20K$)	mbar	-	430	430
1030 l/h flow rate (24kW at $\Delta t=20K$)	mbar	-	-	280
max. permissible total overpressure hot water	bar	10	10	10
Hot water temperature range (adjustable)	°C	15-65	15-65	15-65
water content of the heating water heat exchanger	Ltr.	1,3	1,3	1,3
nominal content of the	Ltr.	145	145	145
Pipe coil storage tank / Equivalent nominal capacity	l/min	19,7	21,4	21,7
Spec. water flow rate "D" at $\Delta T = 30K$	l/h (kW)	324 (13,6)	555 (22,6)	612 (25)
Hot water continuous output according to DIN 4708	NL	1,7	2	2,2
Performance index according to DIN 4708	l/10 min	162	176	182
Hot water output capacity	kWh/24 h	1,47	1,47	1,47
Stand-by heat input according to DIN EN 12897		Stainless steel / double-layer enamelling according to DIN 4753		
Corrosion protection Hot water heat exchanger /	Ltr.	10	10	10
Storage tank	bar	0,75-0,95	0,75-0,95	0,75-0,95

Technical Data

Gas condensing boilers CGS-2R

TYPE	CGW-2	14/100L	20/120L	24/140L
Technical Data				
Expansion tank total capacity	Ltr.	10	10	10
Expansion vessel inlet pressure	bar	0,75-0,95	0,75-0,95	0,75-0,95
Exhaust gas temperature 80/60-50/30 at Qmax	°C	62-45	70-50	76-50
Exhaust gas temperature 80/60-50/30 at Qmin	°C	30-25	30-25	33-27
Exhaust gas mass flow at Qmax	g/s	6,2	8,8/10,7 ¹⁾	10,9/13,0 ¹⁾
Exhaust gas mass flow at Qmin	g/s	0,9	1,8	2,3
Available delivery pressure of the gas blower at				
Exhaust gas value group		G52	G52	G52
NOx class		6	6	6
amount of condensate at 50/30°C	Ltr./h	ca. 1,4	ca. 2,0	ca. 2,4
pH value of condensate		ca. 4,0	ca. 4,0	ca. 4,0
Electrical power consumption standby	W	3	3	3
Electrical power consumption maximum	W	17-59/45 ¹⁾	17-51/63 ¹⁾	17-62/88 ¹⁾
Protection class	IP	IPX4D	IPX4D	IPX4D
Electrical connection/fuse protection		230V / 50Hz / 16A/B	230V / 50Hz / 16A/B	230V / 50Hz / 16A/B
CE identification number			CE-0085CO0098	

¹⁾ Heating mode/hot water mode

²⁾ Natural gas/liquid gas (G31)

The requirements of proKlima and KfW are met.

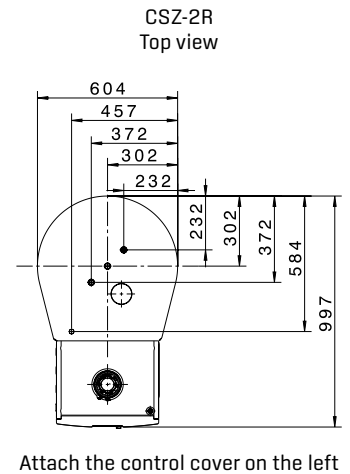
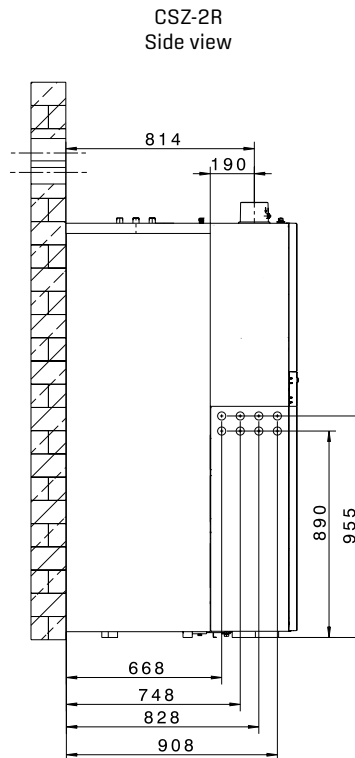
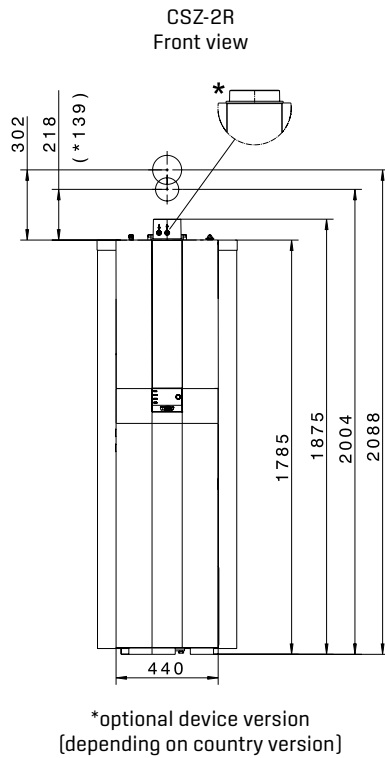
Technical Data

Gas condensing boilers

CSZ-2-14/300R

CSZ-2-20/300R

CSZ-2-24/300R



TYPE	CSZ-2	14/300R	20/300R	24/300R
Dimensions				
Depth	mm	1013	1013	1013
Width	mm	600	600	600
Height	mm	1850	1850	1850
Heating flow connection	G	¾" (DN20)	¾" (DN20)	¾" (DN20)
Heating return connection	G	¾" (DN20)	¾" (DN20)	¾" (DN20)
Hot water connection	G	¾"	¾"	¾"
Cold water connection / circulation	G	¾"	¾"	¾"
Gas connection	R	½"	½"	½"
Air/flue gas pipe connection	mm	60/100	60/100	60/100
Air/flue gas duct	Typ	B23P, B33P, C13(x), C33(x), C43(x), C53(x), C63(x), C83(x), C93(x), C(10)3x, C(11)3x		
Weight				
Total weight	kg	160 (35+125)	160 (35+125)	160 (35+125)
Installation weight (filled with water)	kg	583	583	583

Technical Data

Gas condensing boilers
CSZ-2-14/300R
CSZ-2-20/300R
CSZ-2-24/300R

GAS-
THERMEN

TYPE	CSZ-2	14/300R	20/300R	24/300R
Technical Data				
Nominal heat output at 80/60°C	kW	13,5	18,9/22,2 ¹⁾	23,8/27,1 ¹⁾
Nominal heat output at 50/30°C	kW	15,2	20,4	25,8
Space heating energy efficiency η_s	%	93	93	93
Nominal heat load	kW	14	19,6/23,0 ¹⁾	24,6/28,0 ¹⁾
Lowest heat output (modulating)				
at 80/60°C	kW	1,8/4,6 ²⁾	3,8/6,8 ²⁾	4,8/6,8 ²⁾
at 50/30°C	kW	2,1/5,4 ²⁾	4,4/7,4 ²⁾	5,6/7,4 ²⁾
Smallest heat load (modulating)	kW	1,9/4,9 ²⁾	3,9/6,9 ²⁾	4,9/6,9 ²⁾
Gas category	m ³ /h	II _{2N3B/P}	II _{2N3B}	II _{2N3B}
Gas connection value				
Natural gas E/H (Hi=9,5kWh/m ³ =34,2MJ/m ³)	m ³ /h	1,44	2,06/2,42	2,52/2,95
Natural gas LL (Hi=8,6kWh/m ³ =31,0MJ/m ³)	m ³ /h	1,59	2,28/2,67	2,79/3,25
Liquid gas P (Hi=12,8kWh/m ³ =46,1MJ/m ³)	kg/h	1,07	1,53/1,80	1,87/2,19
Gas connection pressure				
Natural gas (min-max permissible)	mbar	20 (17-25)	20 (17-25)	20 (17-25)
Liquid gas (min-max permissible)	mbar	50 (42,5-57,5)	50 (42,5-57,5)	50 (42,5-57,5)
Standard efficiency at 40/30°C (Hi/Hs)	%	110/99	110/99	110/99
Standard efficiency at 75/60°C (Hi/Hs)	%	107/96	107/96	107/96
Efficiency				
at nominal load at 80/60°C (Hi/Hs)	%	98/88	98/88	98/88
at 30% part load and TR=30°C (Hi/Hs)	%	109/98	109/98	109/98
Flow temperature factory setting	°C	75	75	75
Flow temperature up to approx.	°C	90	90	90
max. total overpressure heating circuit	bar	3	3	3
Residual head for heating circuit:				
High-efficiency pump (EEI <0.20)	mbar	550	550	550
600 l/h flow rate (14kW at $\Delta t=20K$)				
860 l/h flow rate (20kW at $\Delta t=20K$)	mbar	-	430	430
1030 l/h flow rate (24kW at $\Delta t=20K$)	mbar	-	-	280
max. permissible total overpressure hot water	bar	10	10	10
Hot water temperature range (adjustable)	°C	15-65	15-65	15-65
Water content of the				
Heat exchanger heating / solar	Ltr.	7,4 / 10,2	7,4 / 10,2	7,4 / 10,2
Nominal capacity of the storage tank	Ltr.	285	285	285
Spec. water flow rate "D" at $\Delta T = 30K$	l/min	20,5	24,5	24,5
Hot water continuous output	l/h (kW)	366 (14,6)	560 (23,1)	684 (27,8)
Performance index according to DIN 4708	NL	1,5	2,3	2,3
Hot water output power	l/10 min	175	210	210
Stand-by heat input according to DIN EN 12897	kWh/24 h	2,3	2,3	2,3
Corrosion protection Storage tank		Doppelschicht-Emaillierung nach DIN 4753		
Expansion vessel Total capacity	Ltr.	10	10	10
Expansion vessel inlet pressure	bar	0,75-0,95	0,75-0,95	0,75-0,95

Technical Data

Gas condensing boilers

CSZ-2-14/300R

CSZ-2-20/300R

CSZ-2-24/300R

TYP	CSZ-2	14/300R	20/300R	24/300R
Technical Data				
Exhaust gas temperature 80/60-50/30 at Q _{max}	°C	62-45	70-50	76-50
Exhaust gas temperature 80/60-50/30 at Q _{min}	°C	30-25	30-25	33-27
Exhaust gas mass flow at Q _{max}	g/s	6,2	8,8/10,7 ¹⁾	10,9/13,0 ¹⁾
Exhaust gas mass flow at Q _{min}	g/s	0,9	1,8	2,3
Available delivery pressure of the gas blower				
at Q _{max}	Pa	125	135	180
at Q _{min}	Pa	10	14	17
Exhaust gas valve group		G52	G52	G52
NO _x class		6	6	6
amount of condensate at 50/30°C	Ltr./h	ca. 1,4	ca. 2,0	ca. 2,4
pH value of condensate		ca. 4,0	ca. 4,0	ca. 4,0
Electrical power consumption standby	W	3	3	3
Electrical power consumption maximum	W	17-45/59 ¹⁾	17-51/63 ¹⁾	17-62/88 ¹⁾
Protection class	IP	IPX4D	IPX4D	IPX4D
Electrical connection/fuse protection			230V / 50Hz / 16A/B	
CE identification number Gas condensing boiler			CE-0085CO0098	

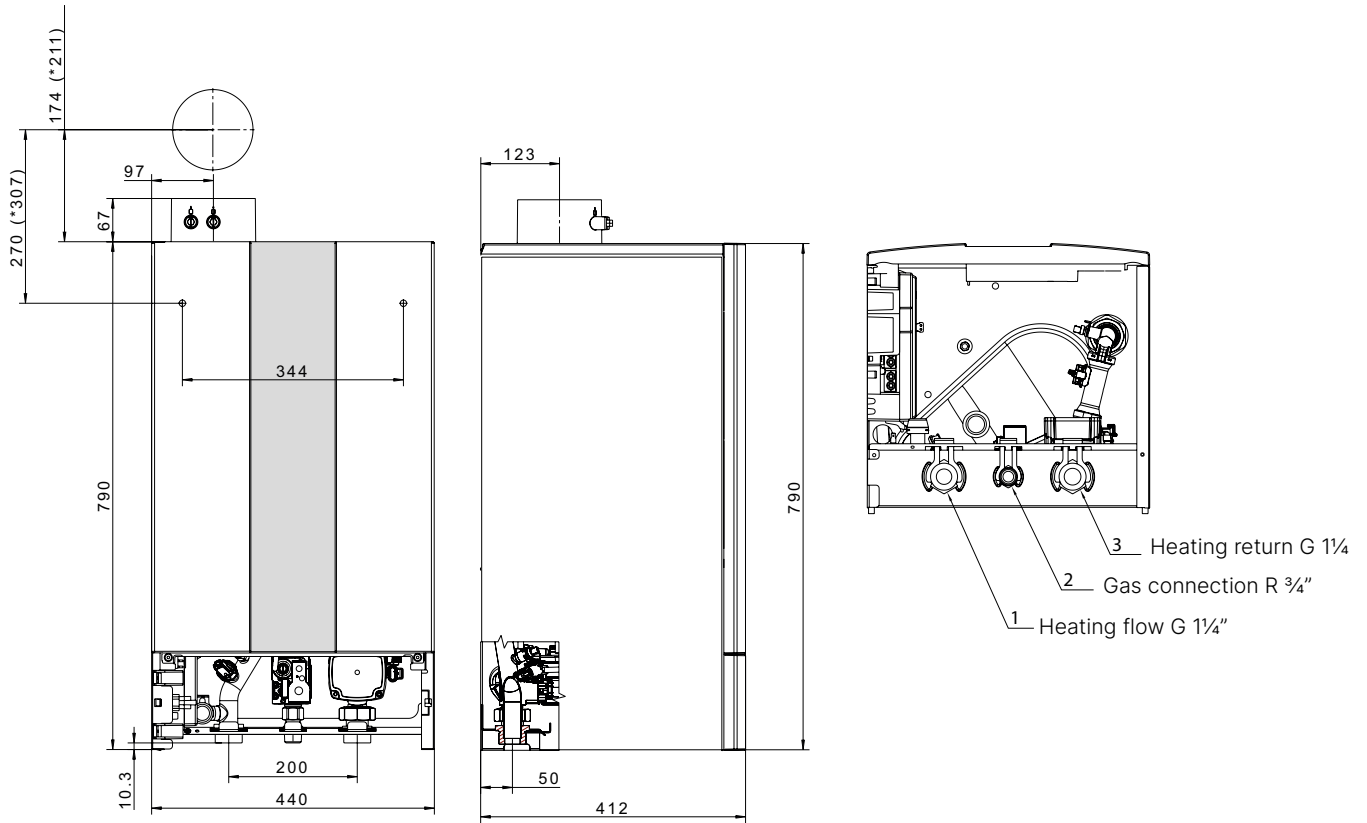
¹⁾ Heating mode/hot water mode

²⁾ Natural gas/liquid gas (G31)

The requirements of proKlima and KfW are met.

Technical Data

Gas condensing boiler
CGB-2-38/55



TYPE	CGB-2	38	55
Dimensions			
Depth	mm	412	412
Width	mm	440	440
Height	mm	790	790
Heating flow outer-Ø	G	1 1/4"	1 1/4"
Heating return outer-Ø	G	1 1/4"	1 1/4"
Waste water connection (condensate)		1"	1"
Gas connection	R	3/4"	3/4"
Air / exhaust gas pipe connection	mm	80/125	80/125
Weight			
Total Weight	kg	47	47

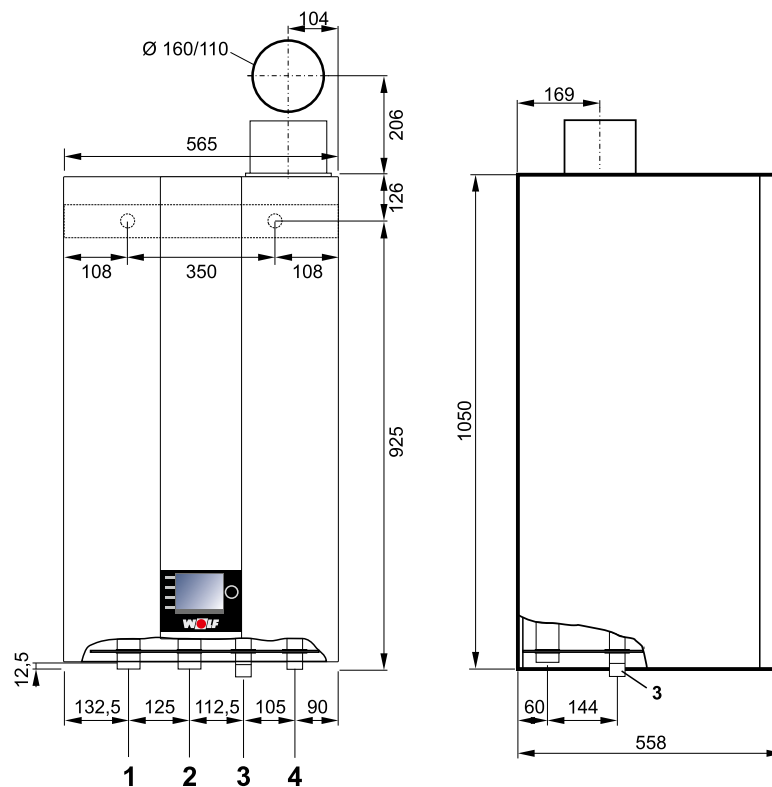
Technical Data

Gas condensing boiler CGB-2-38/55

TYPE	CGB-2	38	55
Technical Data			
Nominal heat output at 80/60°C	kW	34,9	51,1
Nominal heat output at 50/30°C	kW	38,0	55,0
Space heating energy efficiency η_s	%	94	94
Nominal heat load	kW	36,4	53,3
Smallest heat output (mod. at 80/60)			
Natural gas	kW	5,3	7,8
Liquid gas	kW	6,7	9,8
Smallest heat output (mod. at 50/30)			
Natural gas	kW	6,3	9,2
LPG	kW	7,6	11,0
Smallest heat load (mod. at 50/30)			
Natural gas	kW	6,3	9,1
LPG	kW	7,3	10,5
Seasonal space heating energy efficiency	%	94	94
Energy efficiency class		A	A
Indoor sound power level	dB(A)	52	55
Gas connection value:			
Natural gas E/H ($H_i = 9.5 \text{ kWh/m}^3 = 34.2 \text{ MJ/m}^3$)	m ³ /h	3,83	5,61
Natural gas LL ($H_i = 8,6 \text{ kWh/m}^3 = 31,0 \text{ MJ/m}^3$) 1)	m ³ /h	4,23	6,20
Liquid gas P ($H_i = 12.8 \text{ kWh/kg} = 46.1 \text{ MJ/kg}$) 4)	kg/h	2,84	4,16
Gas connection pressure:			
Natural gas	mbar	20	20
Liquid gas	mbar	50	50
Factory setting maximum flow temperature	°C	75	75
max. Total overpressure heating	bar/MPa	6/0,6	6/0,6
Water content of the heating water heat exchanger	Ltr.	2,7	2,7
Hot water temperature range (adjustable)	°C	15-65	15-65
nominal heat output:			
Exhaust gas mass flow	g/s	17,5	25,6
Exhaust gas temperature 80/60 - 50/30	°C	62/49	72/57
Available delivery pressure of the gas blower	Pa	159	164
Minimum heat load:			
Exhaust gas mass flow	g/s	3,0	4,4
Exhaust gas temperature 80/60 - 50/30	°C	59/37	60/37
Available delivery pressure of the gas blower	Pa	7(10)*	7(10)*
NOx class		6	6
Electrical connection	V~/Hz	230V 50Hz	230V 50Hz
Built-in fuses	A	M 4A (5×20mm), T 1,25A (miniature fuse)	
Electrical power consumption with Heating circuit pump modulating / Class A	max	135W	160W
Electrical power consumption with Heating circuit pump modulating / Class A	Standby	3W	3W
Protection class		IPx4D	IPx4D
Total weight (empty)	kg	47	47
Amount of condensate at 40/30°C	Ltr./h	2,7	3,4
pH value of condensate		ca. 2,8	ca. 2,8
CE- identification number		CE-0085CU0300	

Technical Data

Gas condensing boiler
CGB-2-75/100



TYPE	CGB-2	75	100
Dimensions			
Depth	mm	548	548
Width	mm	565	565
Height	mm	1050	1050
Heating flow outer-Ø	G	1½"	1½"
Heating return outer-Ø	G	1½"	1½"
Waste water connection (condensate)		1"	1"
Gas connection	R	¾"	¾"
Air / exhaust gas pipe connection	mm	110/160	110/160
Weight			
Total weight	kg	94	94

Technical Data

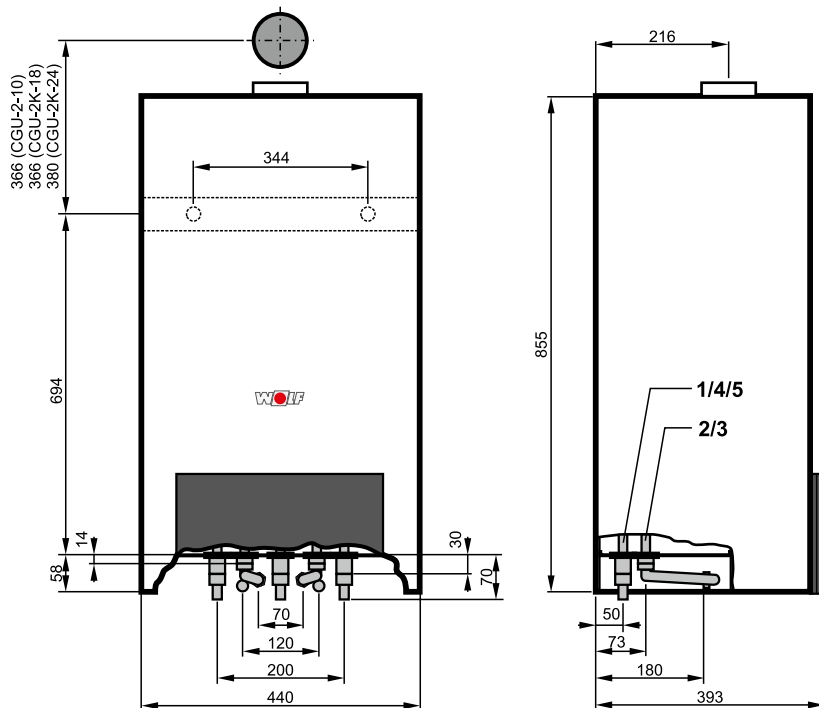
Gas condensing boiler CGB-2-75/100

TYPE	CGB-2	75	100
Technical Data			
Space heating energy efficiency class		A	-
Space heating energy efficiency η_s	%	95	
Nominal heat output at 80/60°C	kW	70,8	91,1
Nominal heat load at 50/30°C	kW	75,8	98,7
Nominal heat load	kW	71,5	94,0
Minimum heat output (mod. at 80/60)			
Natural gas E/H	kW	14,9	14,9
Liquid gas P	kW	19,7	19,7
Smallest heat output (mod. at 50/30)			
Natural gas E/H	kW	15,9	15,9
Liquid gas P	kW	21,2	21,2
Smallest heat load (mod. at 50/30)			
Natural gas E/H	kW	15,0	15,0
Liquid gas P	kW	20,0	20,0
Gas connection value:			
Natural gas E/H ($H_i = 9.5 \text{ kWh/m}^3 = 34.2 \text{ MJ/m}^3$)	m ³ /h	7,53	9,89
Natural gas LL ($H_i = 8,6 \text{ kWh/m}^3 = 31,0 \text{ MJ/m}^3$) 1)	m ³ /h	8,31	10,93
Liquid gas P ($H_i = 12.8 \text{ kWh/kg} = 46.1 \text{ MJ/kg}$)	kg/h	5,59	7,34
Gas connection pressure:			
Natural gas	mbar; hPa	20	20
Liquid gas	mbar; hPa	50	50
Factory setting maximum flow temperature	°C	80	80
Max. Total overpressure heating	bar / MPa	6 / 0,6	6 / 0,6
Water content of the heating water heat exchanger	Ltr.	10	10
Hot water temperature range (adjustable)	°C	15-65	15-65
Heating water resistance at 20 K spread	mbar; hPa	86	159
Nominal heat output:			
Exhaust gas mass flow	g/s	32,2	42,4
Exhaust gas temperature 50/30 - 80/60	°C	55-79	65-91
Available delivery pressure of the gas blower	Pa	120	216
Minimum heat load:			
Exhaust gas mass flow	g/s	6,9	6,9
Exhaust gas temperature 50/30 - 80/60	°C	36-60	36-60
Available delivery pressure of the gas blower	Pa	6	6
Exhaust gas valve group according to DVGW G 635		G52	G52
NOx class		6	6
Electrical connection	V~/Hz	230/50	230/50
Built-in fuse (medium time-lag)	A	4	4
Electrical power consumption	W	93	159
Protection class		IP20	IP20
Total weight (empty)	kg	94	94
Condensate amount at 40/30°C	Ltr./h	7,1	9,8
pH-value of condensate		ca. 4	ca. 4
CE identification number		CE-0085DL0287	

Energy labeling according to Ecodesign Directive for space heating with thermal output $\leq 70 \text{ kW}$

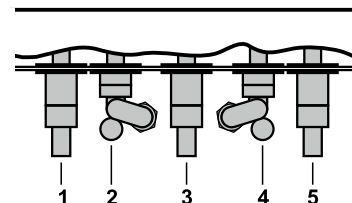
Technical Data

Gas boiler
CGU-2-10
CGU-2K-18/24



CGU-2:
1 Heating flow
2 Storage tank flow
3 Gas connection
4 Storage tank return
5 Heating return

CGU-2K:
1 Heating flow
2 Hot water connection
3 Gas connection
4 cold water connection
5 Heating return



TYPE	CGU-2 CGU-2K	10	- 18	- 24
Dimensions				
Depth	mm	393	393	393
Width	mm	440	440	440
Height	mm	855	855	855
Exhaust pipe/wall distance	mm	226	226	226
Flue gas pipe connection Ø	mm	110	110	130
Connection type for air/flue gas duct	Typ	B _{11BS}	B _{11BS}	B _{11BS}
Weight				
Total weight	kg	39	39	41

Technical Data

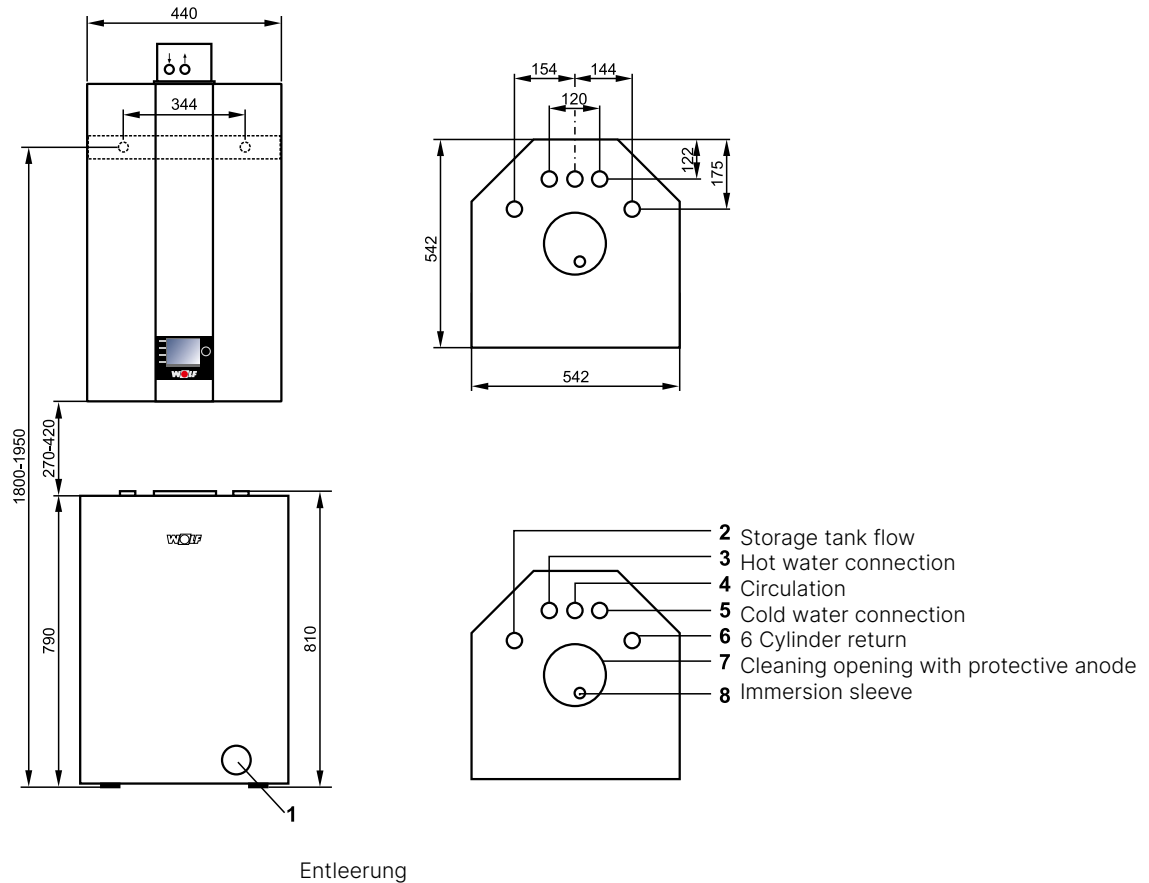
Gas boiler
CGU-2-10
CGU-2K-18/24

GAS-
THERMEN

TYPE	CGU-2 CGU-2K	10	- 18	- 24
Technical Data				
Energy efficiency class space heating		C	C	C
Energy efficiency class hot water heating		-	A	A
Space heating energy efficiency η_s	%	77	78	79
Power range	kW	7,5-10	8-18	10,9-24
Load range	kW	8,3-11,2	8,8-20,2	12,0-26,5
Standard efficiency at 75/60 °C (Hi/Hs)	%	-	94/85	92/83
Gas category		II _{2ELL3P} (DE)	II _{2ELL3P} (DE)	I _{2ELL3P} (DE)
Gas connection, outside Ø	G	1/2"	1/2"	1/2"
Heating flow, outdoor Ø	G	3/4"	3/4"	3/4"
Heating return, outside Ø	G	3/4"	3/4"	3/4"
Cold water connection	G	3/4"	3/4"	3/4"
Hot water connection	G	3/4"	3/4"	3/4"
Expansion vessel Nominal capacity	ltr.	10	10	10
Expansion vessel Pre-pressure	bar	0,75	0,75	0,75
Maximum outlet temperature ²⁾	°C	-	65	65
Gas connection value:				
Natural gas E/H (Hi = 9,5 kWh/m ³ = 34,0 MJ/ m ³)	m ³ /h	1,3	2,1	2,8
Natural gas LL (Hi = 8,1 kWh/m ³ = 29,2 MJ/ m ³)	m ³ /h	1,5	2,3	3,1
LPG (Hi = 12.9 kWh/kg = 46.3 MJ/kg)	kg/h	0,8	1,5	2,1
Gas connection pressure:				
Natural gas	mbar	20	20	20
Liquid gas	mbar	50	50	50
Max. Total overpressure heating	bar	3	3	3
Notw. flow rate for the heat generator	Pa	1,5	1,5	1,5
Exhaust gas temperature ¹⁾	°C	84/101	80/123	80/125
Exhaust gas mass flow	g/s	12,8/13,1	12,8/13,9	15,0/19,0
Indoor sound power level	dB(A)	36	40	44
Built-in fuse (medium time-lag)	A	3,15	3,15	3,15
Protection class		IPX4D	IPX4D	IPX4D
Electrical connection		230V/50 Hz	230V/50 Hz	230V/50 Hz
Electrical power consumption / standby	W	58 / 6	58 / 6	58 / 6
CE identification number		CE-0085BS0516		

Technical Data

Hot water tank
CSW-120



TYPE	CSW	120
Dimensions		
Depth	mm	542
Width	mm	542
Height	mm	790
Weight		
Empty weight	kg	65

Technical Data

Hot water tank
CSW-120

GAS-
THERMEN

TYPE	CSW	120
Technical Data		
Storage capacity	Ltr.	115
Continuous storage capacity (80/60 - 10/45° C)	kW - Ltr./h	29 - 710
Standby heat input	kWh/24h	1,11
performance index	NL	1
Permissible operating overpressure hot water	bar	10
permissible operating overpressure heating water	bar	12
max. permissible storage water temperature	°C	95
max. permissible heating water temperature	°C	110
cold water connection	G	3/4"
Hot water connection	G	3/4"
Storage tank flow	R	3/4"
Storage tank return	R	3/4"
circulation	G	3/4"
Drainage	Rp	1/2"
Immersion sleeve	Ø mm	12

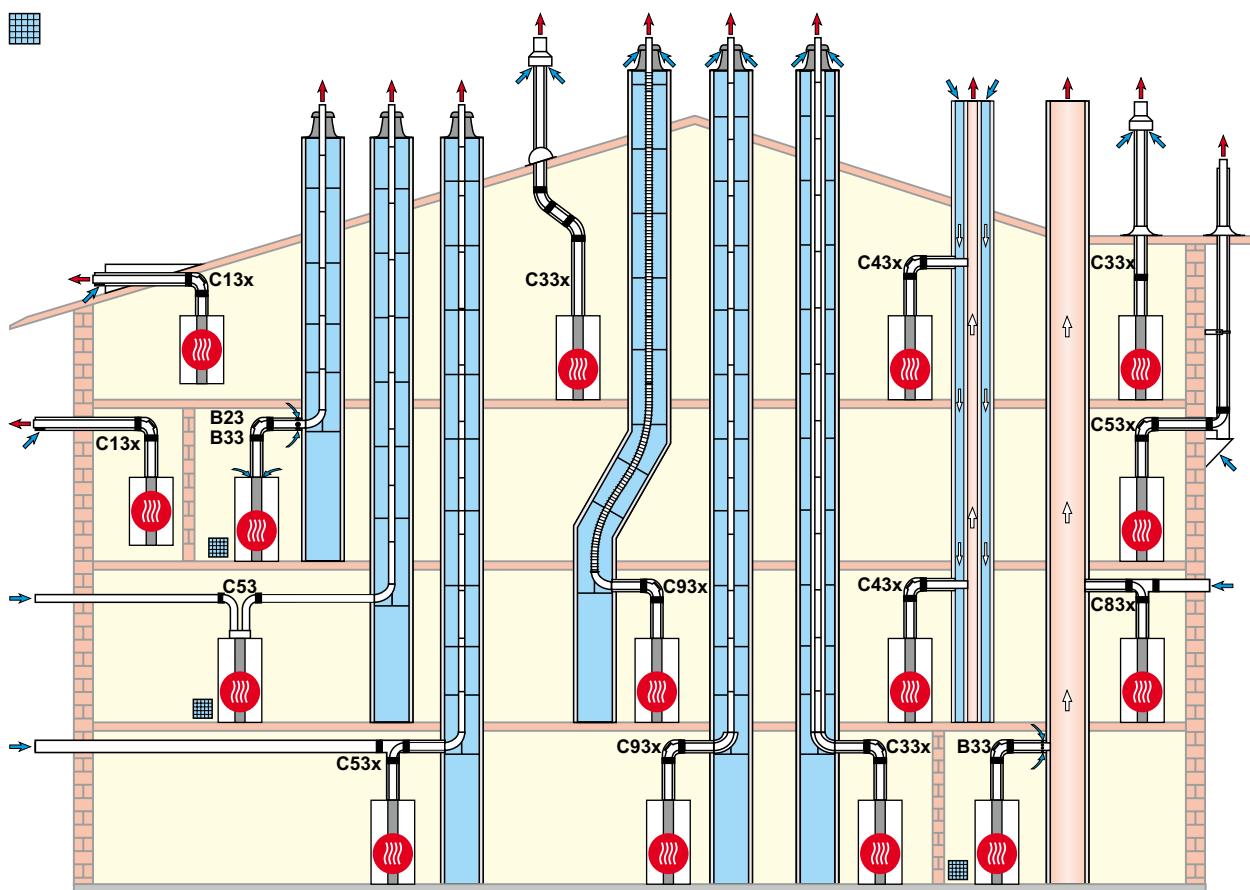
Notes

WOLF

Flue gas system

kit up to 100kW	Page 126
Accessories single-walled / concentric up to 100kW	Page 138
kit C33 vertical Roof through to 100kW	Page 148
Kit C53x Facade system up to 100kW	Page 151
Multiple occupation and Cascades from 100kW	Page 155
Accessories single-walled / concentric from 100kW	Page 165
Multiple occupation and Cascades from 300kW	Page 173
Flue gas routing Heating value boilers	Page 176
Cascades	Page 177

Flue gas system



Ausführungsvarianten

Type

B23	Flue gas line in the shaft and combustion air directly above the appliance (room air-dependent)
B33	Flue gas line in shaft with horizontal concentric connection line (room air-dependent)
B33	Connection to moisture-resistant exhaust chimney with horizontal concentric connection pipe (room air-dependent)
C13x	Horizontal roof duct through pitched roof (room air independent - dormer on site). Attention, not permitted for oil devices!
C33x	vertical concentric roof duct through pitched roof or flat roof, vertical concentric air/flue gas duct for shaft installation (room air-independent)
C43x	Connection to a moisture-insensitive air/flue gas chimney (LAS), maximum pipe length from center of unit elbow to connection 3m (room air independent).
C53	Connection to exhaust gas line in shaft and supply air line through outer wall (room air independent), 3m supply air line incl.
C53x	Connection to flue pipe on facade (room air independent) Combustion air intake via outer wall console
C53x	Connection to exhaust pipe in shaft and supply air through outer wall (room air independent)
C83x	Connection concentrically to flue gas chimney insensitive to moisture and combustion air through outer wall (room air-independent)
C93x	Flue pipe for shaft installation

Note: The heat generators are also suitable for installation in frost-proof garages in room-air-independent operation. If necessary, the installation examples must be adapted to the building and country-specific regulations. Questions regarding installation, in particular and supply air openings (ventilation above 50 kW is generally required), must be discussed with the responsible with the responsible district chimney sweep prior to installation.

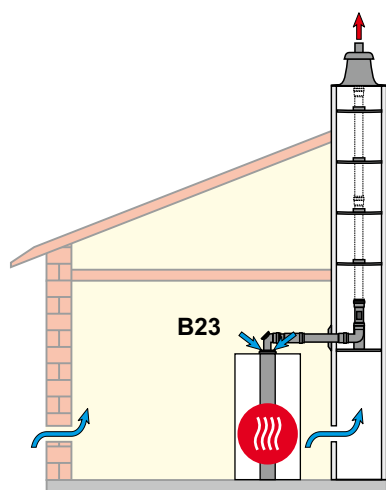
The length specifications refer to the concentric air/flue gas duct and flue gas pipes and only to original WOLF parts. The DN60/100 and DN80/125 air/flue gas systems are system-certified with the WOLF gas condensing boilers. Please observe the maximum length of the horizontal flue pipe according to the installation instructions of the heat generator.

The following air/flue gas lines or flue gas lines with CE-0036-CPD-9169003 approval may be used for the above installations:

- Flue gas duct DN60 to DN200
- Concentric air/flue gas duct DN60/100 to DN200/300
- Concentric air/flue gas duct (on the facade) DN80/125 to DN110/160
- Flexible exhaust duct DN60, DN83 and DN110

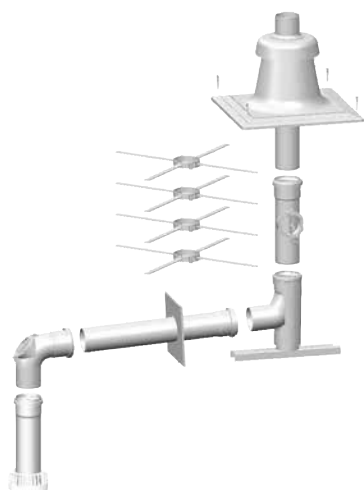
The required identification plates are enclosed with the respective WOLF accessories.

The installation instructions enclosed with the accessories must also be observed.



B23

Flue for B23 shaft installation and combustion air directly via boiler, open flue version



„Consisting of:

ventilation air grille, flue 250 mm long, 87° inspection bend, flue 500 mm long, pipe collar, 87° support bend incl. support rail, inspection piece, 4 spacers, shaft cover with integral air/flue gas duct and terminal.”

Note: A flue of appropriate length can be used for support instead of the support rail.

DG | H40

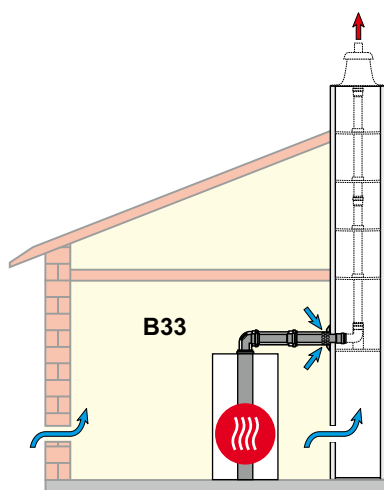
shaft cover	Connection set riser pipe	DN60 DN60	DN80 DN80	DN80 DN110	DN110 DN110
plastic	Art. no. €	2651901 384.00	2651858 384.00		
stainless steel	Art. no. €	2651900 313.00	2651520 313.00	2651991 417.00	2651572 492.00

Maximum length [m]:

Condensing boiler floor standing		TOB-18	COB-2-15	COB-2-20	COB-2-29	COB-2-40	TGB-2-20	TGB-2-30	
Connection set	Riser								
DN60	DN60	18	20	-	-	-	30	-	
DN80	DN80	30	30	30	30	-	30	30	
DN80	DN110	-	-	-	-	-	-	-	
DN110	DN110	-	-	-	-	30	-	-	
Gas condensing boiler		bis 14kW	bis 20kW	bis 24kW	CGB-2-38	CGB-2-55	CGB-75/100	CGB-2-75	CGB-2-100
Connection set	Riser								
DN60	DN60	45	25	21		-	-	-	-
DN80	DN80	-	50	50	39	17	-	-	-
DN80	DN110	-	-	-	50	50	-	-	-
DN110	DN110	-	-	-	-	-	50/47	50	52
DN110	DN160	-	-	-	-	-	-	52	52

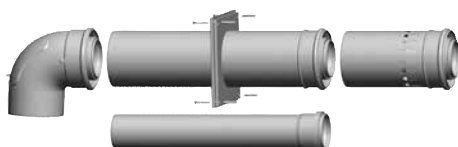
„The maximum length corresponds to the total length from the appliance to the flue terminal
Bends equivalent in pipe length (calculated length, single wall/concentric): 30° (0.4/0.7 m), 45° (0.6/1.2 m) and 87° (1.0/2.0 m)“

kit up to 100kW



B33

Flue with horizontal concentric **B33** connection pipe for shaft installation and connection to a moisture-resistant balanced flue chimney
Open flue version"



„Consisting of:

concentric 87° inspection bend or tee, concentric pipe 500 mm long, pipe collar, concentric pipe 250 mm long, flue 500 mm long"

DG | H40

Connection set riser pipe	DN60/100 DN60	DN80/125 DN80	DN110/160 DN110
Art. no.	2651992	2651993	2651994
€	207.00	207.00	320.00

„Wall mounted oil condensing boilers up to 18 kW: an additional reducer from DN80/125 to DN60/100 (part no. 2651951) is required for connection to the DN60/100 system.

Wall mounted gas condensing boilers up to 24 kW: an additional adaptor from DN60/100 to DN80/125 (part no. 2651733) is required for connection to the DN80/125 system."

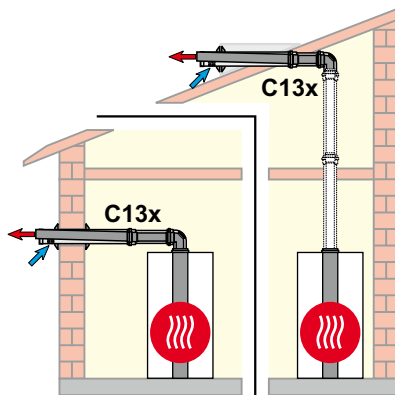
Maximum length [m]:

Condensing boiler floor standing		TOB-18	COB-2-15	COB-2-20	COB-2-29	COB-2-40	TGB-2-20	TGB-2-30	
Connection set	Riser								
DN60/100	DN60	16	18	-	-	-	30	-	
DN80/125	DN80	30	30	30	30	-	30	30	
DN110/160	DN110	-	-	-	-	30	-	-	
Gas condensing boiler		bis 14kW	bis 20kW	bis 24kW	CGB-2-38	CGB-2355	CGB- 75/100	CGB-2-75	CGB-2- 100
Connection set	Riser								
DN60/100	DN60	43	23	19	-	-	-	-	-
DN80/125	DN80	50	50	50	35	13	-	-	-
DN110/160	DN110	-	-	-	50	50	47/35	41	43
DN110/160	DN160	-	-	-	-	-	50*/50*	52	52

„Required for connection to a moisture-resistant flue gas chimney – calculation to EN 13384 (balanced flue chimney manufacturer).

The maximum length corresponds to the total length from the appliance to the flue terminal

Bends equivalent in pipe length (calculated length, single wall/concentric): 30° (0.4/0.7 m), 45° (0.6/1.2 m) and 87° (1.0/2.0 m)"



C13x

„Flue, horizontal wall/roof outlet **C13x** with concentric connection line
Room sealed version”

„Consisting of:

concentric 87° inspection bend or tee, concentric pipe 1000 mm long, 2 pipe collars, concentric pipe with wind protector, length L:



DN60/100 L = 750 mm

DN80/125 L = 880 mm

DN110/160 L = 1000 mm”

DG | H40

Connection set	DN60/100	DN80/125	DN110/160
Art. no.	2651749	2651495	2651558
€	262.00	261.00	390.00

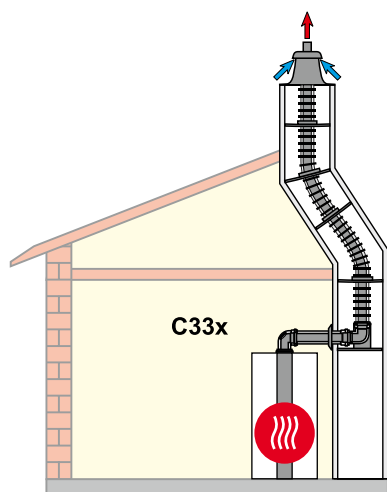
Wall mounted gas condensing boilers up to 24 kW: an additional adaptor from DN60/100 to DN80/125 (part no. 2651733) is required for connection to the DN80/125 system.”

Maximum length [m]:

Condensing boiler floor standing	TOB-18	COB-2-15	COB-2-20	COB-2-29	COB-2-40	TGB-2-20	TGB-2-30	
Connection set								
DN60/100	-	-	-	-	-	10	-	
DN80/125	-	-	-	-	-	10	-	
DN110/160	-	-	-	-	-	-	-	
Gas condensing boiler	bis 14kW	bis 20kW	bis 24kW	CGB-2-38	CGB-2-55	CGB-75/100	CGB-2-75	CGB-2-100
Connection set								
DN60/100	10	10	10	15 ³⁾	6 ³⁾	-	-	-
DN80/125	10	10	10	50 ³⁾	29 ³⁾	-	-	-
DN110/160	-	-	-	-	-	16/13	12	9

„The maximum length corresponds to the total length from the appliance to the flue terminal
Bends equivalent in pipe length (calculated length, single wall/concentric): 30° (0.4/0.7 m), 45° (0.6/1.2 m) and 87° (1.0/2.0 m)”

kit up to 100kW



C33x flexibel

Abgasleitung für den Schachteinbau **C33x**
senkrechte **flexible** konzentrische Luft-/Abgasführung für Schachteinbau,
Ausführung **raumluftunabhängig**



Bestehend aus:

Revisionsbogen konzentrisch 87°, Abgasrohr konzentrisch Länge 1000mm, Rosette, Stützbogen 87° mit Auflageschiene, Innenrohr: Abgasrohr flexibel Länge 12,5m

Aussenrohr: Abgasrohr flexibel Länge 15,0m (DN110) bzw. 13x 1000mm (DN125)

Befestigung (Halterung) für flexibles Rohr an der Schachtabdeckung und 6 Abstandhaltern. Schachtabdeckung mit integrierter Luft-/Abgasführung und Mündungsstück.

Note: Instead of the support rail, an exhaust pipe of appropriate length can be used as a support device.

DG | H40

Connection set	DN80/125	DN60/100	DN60/100
Art. no.	2652172,2652173	2652174,2652175	2652176,2652177
€	1525.00,1660.00	1020.00,1180.00	1480.00,1640.00

Oil condensing boilers up to 18kW: For connection to system DN60/100, an additional reduction from DN80/125 to DN60/100 (Art. No. 2651951) is required.

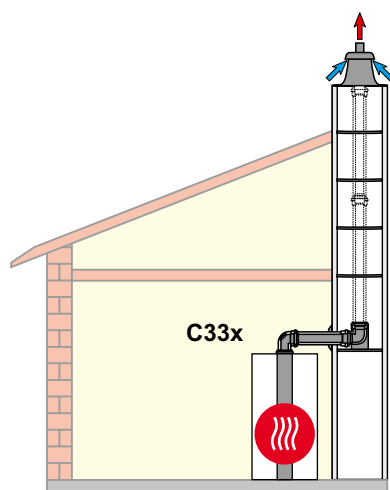
Gas condensing boilers up to 24kW: For connection to system DN80/125, an additional transition from DN60/100 to DN80/125 (art. no. 2651733) is required.

Maximum length [m]:

Condensing boiler floor standing		TOB-18	COB-2-15	COB-2-20	COB-2-29	COB-2-40	TGB-2-20	TGB-2-30	
Connection set	Riser								
DN60/100	DN60/110	7	9	-	-	-	-	-	
DN80/125	DN83/125	21	23	16	13	-	-	-	
Gas condensing boiler		bis 14kW	bis 20kW	bis 24kW	CGB-2-38	CGB-2-55	CGB-75/100	CGB-2-75	CGB-2-100
Connection set	Riser								
DN60/100	DN60/110	15	9	7	-	-	-	-	-
DN80/125	DN83/125	18	21	23	11	5	-	-	-
DN100/160	DN160	-	-	-	-	-	-	15	16

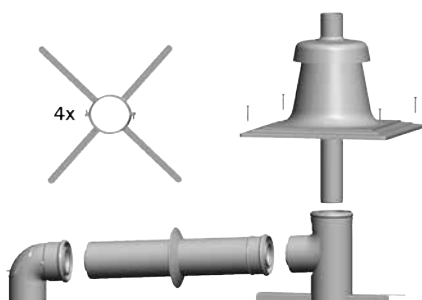
Maximallänge entspricht Gesamtlänge vom Gerät bis zur Abgasmündung

Rohrlängenäquivalenz Bögen (Rechnerische Länge einwandig/konzentrisch): 30° (0,4/0,7m), 45° (0,6/1,2m) und 87° (1,0/2,0m)



C33x Schacht

Flue for C33x shaft installation,
vertical concentric balanced flue for shaft installation,
room sealed version



„Consisting of:

concentric 87° inspection bend or tee, concentric pipe 500 mm long, pipe collar, concentric 87° support bend with support rail, 4 spacers and shaft cover with integrated air/flue gas duct and terminal.“

Note: A flue of appropriate length can be used for support instead of the support rail.

DG | H40

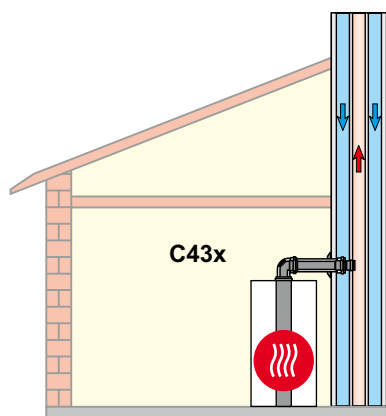
shaft cover	Connection set riser pipe	DN60/100 DN60/100	DN80/125 DN80/125	DN110/160 DN110/160
plastic	Art. no. €	2651855 454.00	2651996 550.00	2651998 715.00
stainless steel	Art. no. €	2651750 394.00	2651995 478.00	2651997 645.00

Maximum length [m]:

Condensing boiler floor standing		TOB-18	COB-2-15	COB-2-20	COB-2-29	COB-2-40	TGb-2-20	TGB-2-30	
Connection set	Riser								
DN60/100	DN60/100	9	9	-	-	-	30		
DN80/125	DN80/125	24	24	22	18	-	30	29	
DN110/160	DN110/160	-	-	-	-	14	-		
Gas condensing		bis 14kW	bis 20kW	bis 24kW	CGB-2-38	CGB-2-55	CGB-75/100	CGB-2-75	CGB-2-100
boiler									
Connection set	Riser								
DN60/100	DN60/100	16	14	12	-	-	-	-	-
DN80/125	DN80/125	17	22	26	19	9	-	-	-
DN110/160	DN110/160	18	25	30	39	36	15/12	11	12

„The maximum length corresponds to the total length from the appliance to the flue terminal
Bends equivalent in pipe length (calculated length, single wall/concentric): 30° (0.4/0.7 m), 45° (0.6/1.2 m) and 87° (1.0/2.0 m)“

kit up to 100kW



C43x

„Connection to a moisture-resistant balanced flue chimney **C43x**
Room sealed version”



„Comprising:

concentric 87° inspection tee or bend, concentric pipe 500 mm long, pipe collar, flue 500 or 250 mm long”

DG | H40

Connection set	DN60/100	DN80/125	DN110/160
Art. no.	2651751	2651499	2651555
€	179.00	179.00	299.00

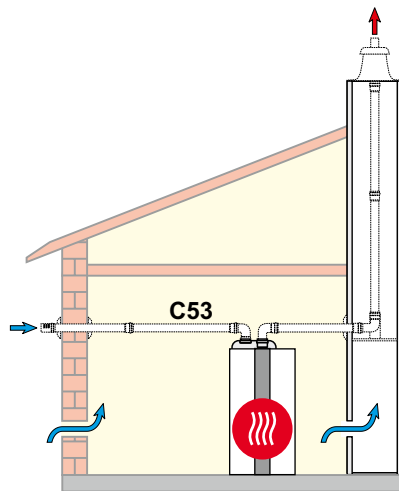
„Wall mounted oil condensing boilers up to 18 kW: an additional reducer from DN80/125 to DN60/100 (part no. 2651951) is required for connection to the DN60/100 system.

Wall mounted gas condensing boilers up to 24 kW: an additional adaptor from DN60/100 to DN80/125 (part no. 2651733) is required for connection to the DN80/125 system.”

Maximum length [m]:

Condensing boiler floor standing	TOB-18	COB-2-15	COB-2-20	COB-2-29	COB-2-40	TGb-2-20	TGb-2-30	
Connection set								
DN60/100								
DN80/125	Calculation	to DIN EN	13384 (LAS-	Hersteller)				
DN110/160								
Gas condensing boiler	bis 14kW	bis 20kW	bis 24kW	CGB-2-38	CGB-2-55	CGB-75/100	CGB-2-75	CGB-2-100
Connection set								
DN60/100								
DN80/125	Calculation	to DIN EN	13384 (LAS-	Hersteller)				
DN110/160								

„The maximum length corresponds to the total length from the appliance to the flue terminal
Bends equivalent in pipe length (calculated length, single wall/concentric): 30° (0.4/0.7 m), 45° (0.6/1.2 m) and 87° (1.0/2.0 m)”



C53

„Connection to the flue in a shaft and ventilation air pipe through external wall
C53
Room sealed version“



Connection adaptor for flue in the shaft and ventilation air pipe through external wall

DG | H40

Connection set Supply / exhaust pipe	DN60/100 2xDN80	DN80/125 2xDN80	DN110/160 2xDN110
Art. no.	2651734	2651487	2651553
€	103.00	102.00	111.00

Maximum length [m]:

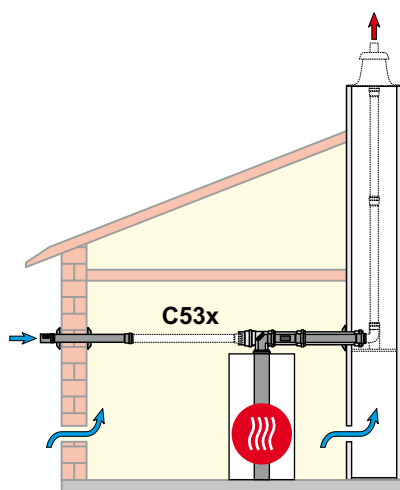
Condensing boiler floor standing		TOB-18	COB-2-15	COB-2-20	COB-2-29	COB-2-40	TGB-2-20	TGB-2-30	
Anschluss	Riser								
DN80/125	DN80	30	30	30	30	-	30	-	
DN110/160	DN110	-	-	-	-	30	30	30	
Gas condensing boiler		bis 14kW	bis 20kW	bis 24kW	CGB-2-38	CGB-2-55	CGB-75/100	CGB-2-75	CGB-2-100
Anschluss	Riser								
DN60/100	DN80	50	50	50	34	14	-	-	-
DN80/125	DN80	-	-	-	50	50	-	-	-
DN110	DN110	-	-	-	-	-	-	43	44
DN110/160	DN110	-	-	-	-	-	50/40	-	-
DN110/160	DN160	-	-	-	-	-	50*/50*	50	50

„The maximum length corresponds to the total length from the appliance to the flue terminal (3m)

Bends equivalent in pipe length (calculated length, single wall/concentric): 30° (0.4/0.7 m), 45° (0.6/1.2 m) and 87° (1.0/2.0 m)“

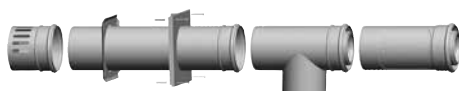
*Enlargement from DN110 to DN160 necessary in the shaft

kit up to 100kW



C53x L-supply line

„Connection to the flue in a shaft and ventilation air through external wall C53x Room sealed version“



„Comprising:

air intake piece, air intake pipe 500 mm long, 2 pipe collars, concentric 87° tee, concentric inspection piece 250 mm long“

DG | H40

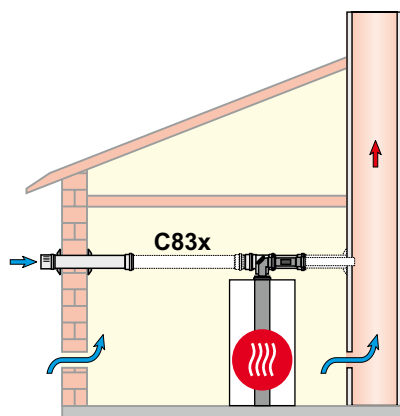
Connection set Supply / exhaust pipe	DN80/125 DN125-DN80/125	DN110/160 DN160-DN110/160
Art. no.	2651500	2651557
€	399.00	915.00

Wall mounted gas condensing boilers up to 24 kW: an additional adaptor from DN60/100 to DN80/125 (part no. 2651733) is required for connection to the DN80/125 system.”

Maximum length [m]:

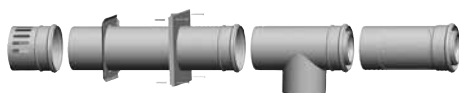
Condensing boiler floor standing		TOB-18	COB-2-15	COB-2-20	COB-2-29	COB-2-40	TGB-2-20	TGB-2-30	
Connection set	Zuluft								
DN80/125	DN125	30	30	30	30	-	30	-	
DN110/160	DN160	-	-	-	-	30	30	30	
Gas condensing boiler		bis 14kW	bis 20kW	bis 24kW	CGB-2-38	CGB-2-55	CGB-75/100	CGB-2-75	CGB-2-100
Connection set	Zuluft								
DN80/125	DN125	50	50	50	37	14	-	-	-
DN110/160	DN160	-	-	-	50	50	50/40	41	44
DN110/160	DN160	-	-	-	-	-	50*/50*	52	52

„The maximum length corresponds to the total length from the appliance to the flue terminal
Bends equivalent in pipe length (calculated length, single wall/concentric): 30° (0.4/0.7 m), 45° (0.6/1.2 m) and 87° (1.0/2.0 m)“



C83x

„Connection to moisture-resistant flue gas chimney and ventilation air through external wall **C83x**
Room sealed version”



„Comprising:

air intake piece, air intake pipe 500 mm long, 2 pipe collars, concentric 87° tee for appliance connection, inspection piece 250 mm long.”

DG | H40

Connection set	DN80/125	DN110/160
Supply / exhaust pipe	DN125-DN80/125	DN160-DN110/160
Art. no.	2651500	2651557
€	399.00	915.00

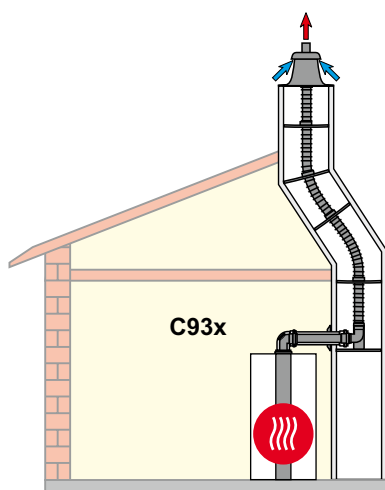
Wall mounted gas condensing boilers up to 24 kW: an additional adaptor from DN60/100 to DN80/125 (part no. 2651733) is required for connection to the DN80/125 system.”

Maximum length [m]:

Condensing boiler floor standing	TOB-18	COB-2-15	COB-2-20	COB-2-29	COB-2-40				
Connection set									
DN60/100									
DN80/125	Calculation	to DIN EN	13384 (LAS-	Hersteller)					
DN110/160									
Gas condensing boiler	bis 14kW	bis 20kW	bis 24kW	CGB-2-38	CGB-2-55	CGB-2-75/100	CGB-2-75	CGB-2-100	
Connection set									
DN60/100									
DN80/125	Calculation	to DIN EN	13384 (LAS-	Hersteller)					
DN110/160									

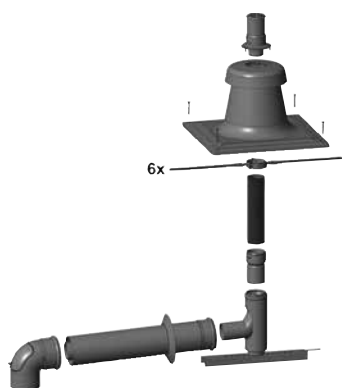
„The maximum length corresponds to the total length from the appliance to the flue terminal
Bends equivalent in pipe length (calculated length, single wall/concentric): 30° (0.4/0.7 m), 45° (0.6/1.2 m) and 87° (1.0/2.0 m)”

kit up to 100kW



C93x flex

„Flue for C93x shaft installation with concentric connection pipe and rigid flue in the shaft
Room sealed version”



„Comprising:

concentric 87° inspection bend or tee, concentric pipe 500 mm long, pipe collar, 87° support bend with support rail, 4 spacers and shaft cover with integrated air/flue gas duct and terminal.”

Note: A flue of appropriate length can be used for support instead of the support rail.

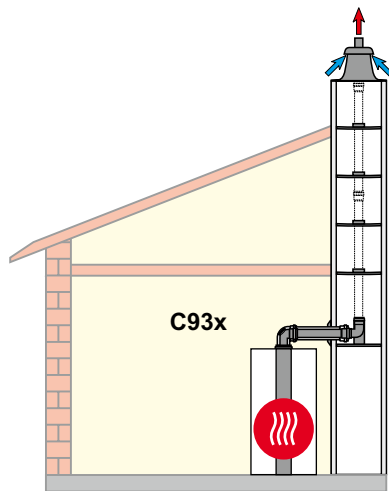
DG | H40

shaft cover	Connection set riser pipe	DN60/100 DN60	DN80/125 DN83	DN110/160 DN110
plastic	Art. no. €	2652001 925.00	2652003 930.00	2652005 1280.00
stainless steel	Art. no. €	2652000 860.00	2652002 870.00	2652004 1030.00

Maximum length [m]:

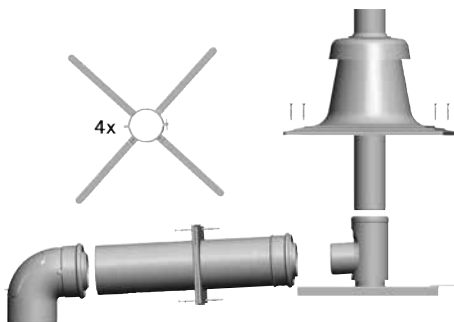
Condensing boiler floor standing		TOB-18	COB-2-15	COB-2-20	COB-2-29	COB-2-40	TGB-2-20	TGB-2-30	
Connection set	Riser								
DN60/100	DN60	8	9	-	-	-	25	-	
DN80/125	DN83	24	27	21	17	-	30	28	
DN110/160	DN110	-	-	-	-	22	-	-	
Gas condensing boiler		bis 14kW	bis 20kW	bis 24kW	CGB-2-38	CGB-2-55	CGB-75/100	CGB-2-75	CGB-2-100
Connection set	Riser								
DN60/100	DN60	13	13	13	-	-	-	-	-
DN80/125	DN83	14	17	22	20	8	-	-	-
DN110/160	DN110	-	-	-	326)	32 ⁶⁾	21/21	23	25

„The maximum length corresponds to the total length from the appliance to the flue terminal
Bends equivalent in pipe length (calculated length, single wall/concentric): 30° (0.4/0.7 m), 45° (0.6/1.2 m) and 87° (1.0/2.0 m)”



C93x starr

„Flue for C93x shaft installation with concentric connection pipe and flexible flue in the shaft
Room sealed version“



„Comprising:

concentric 87° inspection bend or tee, concentric pipe 500 mm long, pipe collar, flexible pipe 12.5 m long (DN60, DN83) or 15 (DN110), push-fit side (DN60), fastening (support) for flexible pipe on the shaft cover, 87° support bend with support rails, 6 (DN60) or 8 (DN83, DN110) spacers and shaft cover with integrated air/flue gas duct and terminal“

Note: A flue of appropriate length can be used for support instead of the support rail.

DG | H40





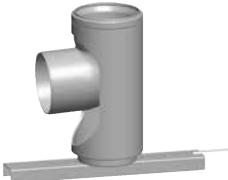

shaft cover	Connection set riser pipe	DN60/100 DN60	DN60/100 DN80	DN80/125 DN80	DN80/125 DN110	DN110/160 DN110
plastic	Art. no. €	2651875 460.00	2651854 460.00	2651856 460.00		
stainless steel	Art. no. €	2651870 394.00	2651752 389.00	2651497 389.00	2651999 510.00	2651554 675.00

Maximum length [m]:





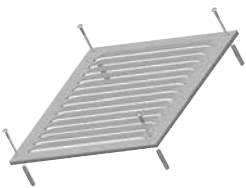
Condensing boiler floor standing		TOB-18	COB-2-15	COB-2-20	COB-2-29	COB-2-40	TGB-2-20	TGB-2-30	
Connection set	Riser								
DN60/100	DN60	12	13	-	-	-	30	-	
DN80/125	DN80	25	29	24	21	-	30	28	
DN110/160	DN110	-	-	-	-	22	-	-	
Gas condensing boiler		bis 14kW	bis 20kW	bis 24kW	CGB-2-38	CGB-2-55	CGB-75/100	CGB-2-75	CGB-2-100
Connection set	Riser								
DN60/100	DN60	17	17	17	-	-	-	-	-
DN60/100	DN80	18	21	26	-	-	-	-	-
DN80/125	DN80	18	21	26	27	11	-	-	-
DN80/125	DN110	-	-	-	39	52	-	-	-
DN110/160	DN110	-	-	-	39	50	21/21	23	25
DN110/160	DN160	-	-	-	-	-	29*/33*	33	33

The maximum length corresponds to the total length from the appliance to the flue terminal Bends equivalent in pipe length (calculated length, single wall/concentric): 30° (0.4/0.7 m), 45° (0.6/1.2 m) and 87° (1.0/2.0 m)“








Accessories single-walled / concentric up to 100kW

	Beschreibung	for product	Art. no.	DG	€
	Flue Made from polypropylene up to 120°C				
	Length 500 mm	DN60	2651871	H40	21.30
		DN80	2651502	H40	21.30
		DN110	2651668	H40	28.20
	Length 1000 mm	DN60	2651872	H40	31.30
		DN80	2651503	H40	31.30
		DN110	2651669	H40	39.50
	Length 2000 mm	DN60	2651873	H40	44.00
		DN80	2651504	H40	44.00
		DN110	2651670	H40	74.00
	Flue bend Made from polypropylene up to 120°C				
	15°	DN60	2651902	H40	15.80
		DN80	2651505	H40	15.80
		DN110	2651690	H40	28.60
	30°	DN60	2651903	H40	15.80
		DN80	2651506	H40	15.80
		DN110	2651691	H40	28.90
	45°	DN60	2651904	H40	15.80
		DN80	2651507	H40	15.80
		DN110	2651692	H40	28.60
	87°	DN60	2651905	H40	15.80
		DN80	2651508	H40	15.80
		DN110	2651693	H40	33.50
	87° inspection bend made of polypropylene up to 120°C length 250mm				
		DN60	2651906	H40	41.00
		DN80	2651514	H40	41.00
		DN110	2651571	H40	57.00
	Inspection pipe made of polypropylene up to 120°C length 250mm, for shaft installation				
		DN60	2651874	H40	27.90
		DN80	2651510	H40	27.90
		DN110	2651671	H40	57.00
	87° support bend for exhaust pipe, incl. support rail. made of polypropylene up to 120°C				
		DN60	2651795	H40	41.00
		DN60 - DN80	2651798	H40	69.00
		DN80	2651513	H40	41.00
		DN110	2651568	H40	95.00
	Spacer (Also suitable for flexible systems)				
	1 set = 6 pcs	DN60	2651788	H40	33.50
	1 set = 4 pcs	DN80	2651509	H40	33.50
	1 set = 6 pcs	DN110	2651673	H40	58.00


Accessories single-walled / concentric up to 100kW

	Beschreibung	for product	Art. no.	DG	Preis_DE
	Schachtabdeckung Mit integrierter Luft-/Abgasführung und Mündungsstück für raumluftabhängigen oder raumluftunabhängigen Betrieb (Grundplatte 40 × 40cm kann bauseits auf 35 × 35cm oder 30 × 30cm verkleinert werden).				
	Kunststoff (für starre Systeme)	DN60	2652181	H40	141.00
	Plastic (for flexible and rigid systems)	DN80/83	2651511	H40	138.00
	Plastic (for flexible and rigid systems)	DN110	2651559	H40	152.00
	Stainless steel (for rigid systems)	DN80	2651512	H40	211.00
	Stainless steel (for rigid systems)	DN110	2651770	H40	240.00
	Stainless steel (for rigid systems)	DN125	2651771	H40	269.00
	Mündungsrohr Edelstahl Kunststoff Stainless steel Plastic	DN60 DN60 DN80 DN80	2652184 2652182 2651523 2651518	H40 H40 H40 H40	45.00 15.00 45.00 14.60
	Pipe collar White, for covering the wall opening For flue	DN80 DN110	2651515 2651569	H40 H40	16.00 24.80
	Condensate drain Horizontal	DN80 DN110	2651838 2651837	H40 H40	78.00 55.00
	Wind protector Made from stainless steel for horizontal flue	DN80	2651767	H40	44.00
	Spacer clip for flue Incl. double ended screws and rawl plugs 8 mm 1 set = 5 pcs	DN80	2651516	H40	81.00
	Ventilation screen For shaft installation with secondary ventilation		2651517	H40	28.30







Accessories single-walled / concentric up to 100kW

	Beschreibung	for product	Art. no.	DG	€
	Gasket 1 set = 5 pcs				
	For flue	DN60	2651745	H40	10.30
	For flue	DN80	2651521	H40	9.90
	For flue	DN110	2651573	H40	13.20
	For flue	DN160	2651351	H40	57.00
	Mounting bracket	DN60/100	2651742	H40	7.80
	Extension Made from polypropylene up to 120°C				
		DN60 auf DN80	2651748	H40	43.00
		DN80 auf DN110	2651564	H40	27.70
		DN110 auf DN160	2652228	H40	128.00
	Reducer Made from polypropylene up to 120°C				
		DN110 auf DN80	2651836	H40	65.00
		DN160 auf DN110	2652229	H40	154.00
		DN160 auf DN125	2652232	H40	163.00
	Eccentric extension Made from polypropylene up to 120°C				
		DN80 auf DN110	2651774	H40	54.00
		DN110 auf DN160	2651835	H40	135.00
		DN110 auf DN125	2652222	H40	127.00
	Terminal grille for exhaust pipe, made of polypropylene up to 120°C				
		DN60	2651944	H40	16.30
		DN80	2651945	H40	16.70
	Terminal cap for terminal grille, made from polypropylene up to 120°C		2651946	H40	30.90








Accessories single-walled / concentric up to 100kW

	Beschreibung	for product	Art. no.	DG	Preis_DE
	Konzentrisches Zuluftgitter für raumluftunabhängigen Betrieb	DN 80/125	2652200	H40	30,90
		DN 110/160	2652201	H40	37.70
	Safety clip 1 set = 5 pieces	DN80	2652164	H40	69.00








Accessories single-walled / concentric up to 100kW

	Beschreibung	for product	Art. no.	DG	€
	Concentric pipe White, pluggable				
	Length 500 mm	DN60/100	2651724	H40	58.00
		DN80/125	2651466	H40	58.00
		DN110/160	2651540	H40	70.00
	Length 1000 mm	DN60/100	2651725	H40	82.00
		DN80/125	2651467	H40	82.00
		DN110/160	2651541	H40	94.00
	Length 2000 mm	DN60/100	2651726	H40	131.00
		DN80/125	2651469	H40	132.00
		DN110/160	2651542	H40	172.00
	Concentric pipe Horizontal, with wind protector White, pluggable				
	Length 750 mm	DN60/100	2651731	H40	82.00
	Length 880 mm	DN80/125	2651494	H40	82.00
	Concentric bend White, pluggable				
	15°	DN60/100	2651757	H40	44.00
		DN80/125	2651482	H40	44.00
		DN110/160	2651759	H40	73.00
	30°	DN60/100	2651758	H40	44.00
		DN80/125	2651483	H40	44.00
		DN110/160	2651760	H40	73.00
	45° (1 set = 2 pce)	DN60/100	2651727	H40	92.00
		DN80/125	2651472	H40	92.00
		DN110/160	2651545	H40	143.00
	87°	DN60/100	2651728	H40	44.00
		DN80/125	2651471	H40	44.00
		DN110/160	2651544	H40	73.00
	87° concentric support bend For connection to concentric air/flue gas duct inside the shaft, including support rail				
		DN60/100	2651740	H40	69.00
		DN80/125	2651800	H40	123.00
		DN110/160	2651834	H40	176.00
	Concentric pipe Length 250 mm, white, push-fit Version for open flue operation				
		DN60/100	2651732	H40	59.00
		DN80/125	2651473	H40	59.00
		DN110/160	2651546	H40	71.00
	Concentric inspection pipe White, pluggable, with quick lock				
	Length 250 mm	DN60/100	2651729	H40	117.00
	Length 250 mm	DN80/125	2651470	H40	117.00
	Length 250 mm	DN110/160	2651552	H40	154.00



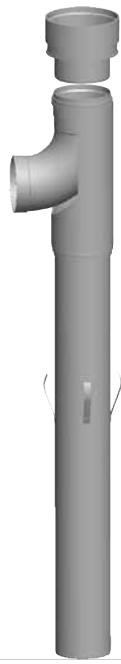


Accessories single-walled / concentric up to 100kW

	Beschreibung	for product	Art. no.	DG	€
	87° concentric inspection tee White, pluggable	DN110/160	2651543	H40	148.00
	87° concentric inspection bend White, pluggable	DN80/125 DN60/100	2651489 2651730	H40 H40	117.00 117.00
	Connection adaptor with test connector Length 152 mm, white, push-fit, for connection to floorstanding condensing boiler or air/flue pipe	DN60/100 DN80/125	2651833 2651488	H40 H40	102.00 45.00
	Sliding socket (separator) White, push-fit, for air/flue pipe Length 235 mm Length 200 mm	DN60/100 DN80/125	2651737 2651490	H40 H40	44.00 65.00
	Adaptor For concentric flue White, push-fit	DN60/100 on DN80/125 DN 80/125 on DN 110/160	2651733 2651485	H40 H40	46.00 107.00
	Concentric reducer	DN80/125 on DN60/100	2651951	H40	99.00
	DN100 pipe collar White, for covering the wall opening	DN100	2651735	H40	11.70







Accessories single-walled / concentric up to 100kW

	Beschreibung	for product	Art. no.	DG	€
	DN100 pipe collar White, for covering the wall opening	DN100	2651736	H40	11.70
	Pipe collar White, for covering the wall opening	DN125 DN160	2651491 2651547	H40 H40	11.40 18.80
	Wind protector Made from stainless steel for horizontal flue	DN80/125	2651768	H40	57.00
	Support rail For flue inside the shaft	DN60/100	2651739	H40	16.20
	Centring piece 1 pcs	DN60/100	2651743	H40	4.70
	Spacer clip for air/flue pipe Incl. double-ended screws and rawl plugs 1 set = 5 pcs	DN60/100 DN80/125	2651741 2651492	H40 H40	69.00 67.00
	Mounting bracket	DN60/100 DN80/125 DN110/160	2651742 2651493 2651551	H40 H40 H40	7.80 7.80 14.00

Accessories single-walled / concentric up to 100kW

	Beschreibung	for product	Art. no.	DG	€
	Spacer For concentric air/flue gas duct for routing in the shaft 1 set = 4 pcs 1 set = 4 pcs	DN60/100 DN80/125	2651744 2651478	H40 H40	22.80 44.00
	Air pipe length 1000mm White, pluggable	DN125 DN160	2651484 2651765	H40 H40	39.60 49.00
	Extension made of polypropylene up to 120°C as kit consisting of: <ul style="list-style-type: none"> • Support tube DN160 (length 2m) • Spacer • Supporting tulip • Bend DN110 • Adapter DN110 to DN160 	DN110 auf DN160	2651584	H40	279.00
	Gasket 1 set = 5 pcs For flue For flue For flue For flue For air pipe For air pipe	DN60 DN80 DN110 DN160 DN100 DN160	2651745 2651521 2651573 2651351 2651746 2651556	H40 H40 H40 H40 H40 H40	10.30 9.90 13.20 57.00 16.20 18.10
	Gasket For inspection aperture, inspection bend	DN100	2651747	H40	13.70

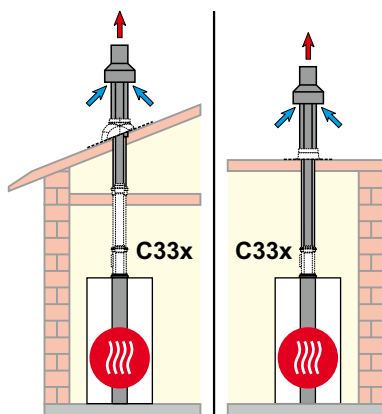
Accessories single-walled / concentric up to 100kW

	Beschreibung	for product	Art. no.	DG	€
	Flexible shaft cover Made of plastic or stainless steel, incl. muzzle (base plate 40 × 40cm can be mounted on 35 × 35cm or 30 × 30cm)				
	Plastic (for flexible systems)	TOB-18, COB-15, wall-mounted gas boilers	2651790	H40	138.00
	Plastic (for flexible and rigid systems)	DN80/83	2651511	H40	138.00
	Plastic (for flexible and rigid systems)	DN110	2651559	H40	152.00
	Stainless steel (for flexible systems)	TOB-18, COB-15, gas heaters	2651899	H40	216.00
	Stainless steel (for flexible systems)	DN83	2651527	H40	211.00
	Stainless steel (for flexible systems)	DN110	2651528	H40	407.00
	Spacer (Also suitable for flexible systems)				
	1 set = 6 pcs	DN60	2651788	H40	33.50
	1 set = 4 pcs	DN80	2651509	H40	33.50
	1 set = 6 pcs	DN110	2651673	H40	58.00
	Extension For flexible flue				
	Length 12.5 m	DN60	2651791	H40	301.00
	Length 8.0 m	DN80	2651579	H40	159.00
	Length 8.0 m	DN110	2651719	H40	269.00
	Länge 1,0m	DN125	2652165	H40	71.00
	Note: Use in a system without Supporting arch not allowed!				
	Connection piece For flexible flue (Coupling for two flexible pipes)				
		DN60	2651793	H40	79.00
		DN83	2651576	H40	115.00
		DN110	2651716	H40	322.00
	Plugging end Retainer for flexible pipe on support bend	DN60	2651794	H40	44.00
	Inspection tee For flexible flue				
		DN60	2651792	H40	123.00
		DN83	2651577	H40	147.00
		DN110	2651717	H40	322.00

Accessories single-walled / concentric up to 100kW

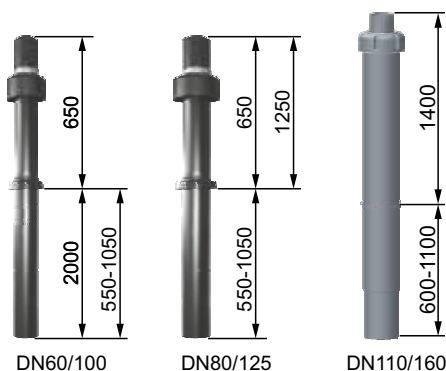
	Beschreibung	for product	Art. no.	DG	€
	Insertion aid For flexible flue				
		DN60	2651796	H40	129.00
		DN83	2651840	H40	179.00
		DN110	2651897	H40	268.00

kit C33 vertical Roof through to 100kW



C33x senkr.

„Flue, vertical concentric roof outlet **C33x** through pitched or flat roof
Room sealed version“



„Comprising:

air/flue pipe for vertical roof outlet, slider including mounting bracket“

Note: Stainless steel version see façade systems up to 100kW
Mouthpiece, roof lead-through (individually extendable) and supply air spigot

DG | H40


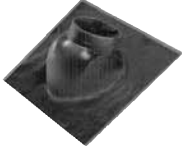




Dachdurchführung	Connection kit LängeText	DN60/100 2650	DN60/100 1200-1700	DN80/125 1200-1700	DN80/125 1800-2300	DN110/160 2000-2500
rotbraun	Art. no. €	2651680 257.00	2651704 175.00	2651475 175.00	2651477 211.00	2651539 283.00
schwarz	Art. no. €	2651679 250.00	2651703 175.00	2651474 175.00	2651476 211.00	2651538 281.00

Maximum length [m]:

Condensing boiler floor standing	TOB-18	COB-2-15	COB-2-20	COB-2-29	COB-2-40	TGB-2-20	TGB-2-30	
Connection set	Riser							
DN60/100	9	9	-	-	-	30	-	
DN80/125	24	24	22	18	-	30	29	
DN110/160	-	-	-	-	14	-	-	
Gas condensing boiler	bis 14kW	bis 20kW	bis 24kW	CGB-2-38	CGB-2-55	CGB-75/100	CGB-2-75	CGB-2-100
Connection set	Riser							
DN60/100	16	14	12	-	-	-	-	-
DN80/125	17	22	26	19	9	-	-	-
DN110/160	18	25	30	39	36	15/12	11	12

The maximum length corresponds to the total length from the appliance to the flue terminal Bends equivalent in pipe length (calculated length, single wall/concentric): 30° (0.4/0.7 m), 45° (0.6/1.2 m) and 87° (1.0/2.0 m)“

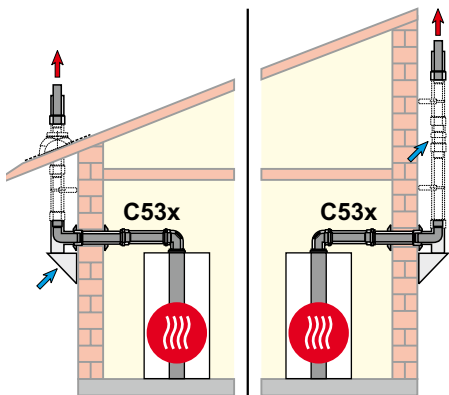
kit C33 vertical Roof through to 100kW

	Beschreibung	for product	Art. no.	DG	€
	Roof panel for pitched roof With adaptor for vertical air/flue gas duct, suitable for roofs with plain tiles, slate and shingles				
	Colour: black, 25° - 45° inclination Colour: russet, 25° - 45° inclination	to DN125 to DN125	1720202 1720203	H40 H40	48.00 48.00
	50 cm x 50 cm large format roof panel for pitched roof With adaptor for vertical air/flue gas duct and additional tolerance compensation, sui- table for all common roof coverings, in par- ticular large tiles				
	With all-round flexible flashing with black coating Colour: black, 25° - 45° inclination Colour: russet, 25° - 45° inclination	to DN125 to DN125	1720206 1720207	H40 H40	76.00 76.00
	Universal tile for pitched roof with adapter for vertical air/flue gas routing, suitable for roofing with tiles with flexible lead flashing at bottom				
	Colour: black, 25° - 45° inclination Colour: russet, 25° - 45° inclination	to DN125 to DN125	1720200 1720201	H40 H40	67.00 67.00
	Universal tile for pitched roof with adapter for vertical air/exhaust gas routing, suitable for roofing with tiles with flexible coated apron below				
	Colour: black, 5° - 25° inclination	to DN125	2651947	H40	96.00
	Colour: russet, 5° - 25° inclination	to DN125	2651948	H40	96.00
	Colour: black, 25° - 45° inclination Colour: russet, 25° - 45° inclination	to DN125 to DN125	1720204 1720205	H40 H40	79.00 80.00
	Adaptor for "Klöber base panels" for vertical air/exhaust gas routing made of polypropylene and pitched roof 20° - 50°				
	Colour: black Colour: russet	DN60/100 DN60/100	2600036 2600037	H40 H40	47.00 47.00
	Flat roof collar For vertical air/flue gas duct				
		DN60/100 u. DN80/125 DN100/160	2651486 2651550	H40 H40	48.00 65.00

kit C33 vertical Roof through to 100kW

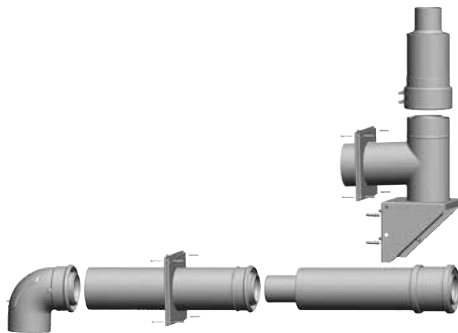
	Beschreibung	for product	Art. no.	DG	€
	Roof tile				
	Colour: black	DN160	2651548	H40	76.00
	Colour: russet	DN160	2651549	H40	76.00

Kit C53x Facade system up to 100kW



C53x Facade

„Connection to flue on external wall C53x
Room sealed version”



„Comprising:

concentric 87° inspection pipe or tee, concentric pipe 500 mm long,
2 pipe collars, concentric wall outlet, concentric external wall con-
nection, concentric terminal outlet incl. clamp fitting”

Note:

DG | H40

Connection set riser pipe	DN60/100 DN60/100	DN80/125 DN80/125	DN110/160 DN110/160
Art. no.	2651907	2651501	2651764
€	530.00	560.00	790.00




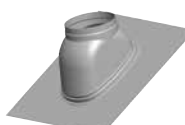

Wall mounted oil condensing boilers up to 18 kW: an additional reducer from DN80/125 to DN60/100 (part no. 2651951) is required for connection to the DN60/100 system. Wall mounted gas condensing boilers up to 24 kW: an additional adaptor from DN60/100 to DN80/125 (part no. 2651733) is required for connection to the DN80/125 system.”

Maximum length [m]:





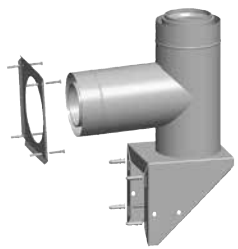
Condensing boiler floor standing	TOB-18	COB-2-15	COB-2-20	COB-2-29	COB-2-40	TGB-2-20	TGB-2-30	
Connection set	Riser							
DN80/125	DN80/125	30	30	30	30	-	30	-
DN110/160	DN110/160	-	-	-	-	30	30	30
Gas condensing boiler		bis 14kW	bis 20kW	bis 24kW	CGB-2-38	CGB-2-55	CGB-75/100	CGB-2-75
Connection set	Riser							CGB-2-100
DN60/100	DN60/100	46	24	20	-	-	-	-
DN80/125	DN80/125	50	50	50	37	14	-	-
DN110/160	DN110/160	-	-	-	50	50	50/38	45

The maximum length corresponds to the total length from the appliance to the flue terminal Bends equivalent in pipe length (calculated length, single wall/concentric): 30° (0.4/0.7 m), 45° (0.6/1.2 m) and 87° (1.0/2.0 m)”


Kit C53x Facade system up to 100kW

	Beschreibung	for product	Art. no.	DG	€
	Terminal Stainless steel / polypropylene, length 290mm For flues on external walls				
		DN60/100	2651915	H40	117.00
		DN80/125	2651799	H40	117.00
		DN110/160	2651567	H40	132.00
	Ventilation air connector Stainless steel / polypropylene, length 250mm For flues on external walls Required e.g. when installing the external bracket below ground level				
		DN60/100	2651912	H40	117.00
		DN80/125	2651663	H40	131.00
		DN110/160	2651535	H40	161.00
	Roof outlet Stainless steel / polypropylene, length 1000mm For flues on external walls				
		DN60/100	2651908	H40	203.00
		DN80/125	2651655	H40	222.00
		DN110/160	2651534	H40	313.00
	Note: Roof lead-through individually extendable				
	Roof tile Colour: black Colour: russet				
		DN125	2651656	H40	76.00
		DN160	2651548	H40	76.00
		DN125	2651657	H40	76.00
	Concentric pipe Stainless steel / polypropylene For flues on external walls Length 500 mm Length 1000 mm Length 2000 mm	DN60/100			
			2651909	H40	72.00
			2652199	H40	81.00
			2651563	H40	98.00
			2651910	H40	90.00
			2651658	H40	105.00
			2651531	H40	175.00
			2651911	H40	194.00
			2651659	H40	211.00
			2651532	H40	352.00

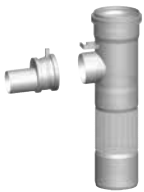
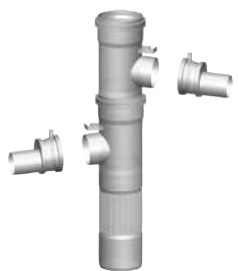

Kit C53x Facade system up to 100kW

	Beschreibung	for product	Art. no.	DG	€
	Concentric bend Stainless steel / polypropylene For flues on external walls				
	15°	DN80/125	2651761	H40	76.00
	15°	DN110/160	2651560	H40	124.00
	30°	DN80/125	2651762	H40	76.00
	30°	DN110/160	2651561	H40	124.00
	45° (1 set = 2 pcs)	DN60/100	2651913	H40	130.00
	45° (1 set = 2 pcs)	DN80/125	2651661	H40	148.00
	45°	DN110/160	2651530	H40	124.00
	87°	DN60/100	2651914	H40	79.00
	87°	DN80/125	2651763	H40	95.00
	87°	DN110/160	2651562	H40	153.00
	Inspection piece Stainless steel / polypropylene For flues on external walls Length 250mm				
		DN60/100	2651916	H40	117.00
		DN80/125	2651660	H40	136.00
		DN110/160	2651533	H40	225.00
	Wall retainer Stainless steel, recommended clearance max. 2 m For flues on external walls				
		DN100	2651918	H40	46.00
		DN125	2651662	H40	55.00
		DN160	2651537	H40	67.00
	Extension for wall retainer Stainless steel, adjustable from 135-230 mm For flues on external walls				
		DN125	2651783	H40	79.00
		DN160	2651785	H40	82.00
	Note: Further extensions on request				
	Clamp fitting Stainless steel / polypropylene For flues on external walls				
		DN60/100	2651917	H40	52.00
		DN80/125	2651769	H40	58.00
		DN110/160	2651565	H40	65.00
	External wall bracket Stainless steel / polypropylene For flues on external walls Including wall plate (external) and fixing materials				
		DN60/100	2651919	H40	221.00
		DN80/125	2651682	H40	259.00
		DN110/160	2651529	H40	335.00
	Note: Ventilation air apertures integrated into the external wall bracket (apertures only used when installed above ground level); when installed below ground level, ventilation air connectors for air/flue pipes are required.				






Kit C53x Facade system up to 100kW

	Beschreibung	for product	Art. no.	DG	€
	Extension for external wall bracket Stainless steel, adjustable from 155-240mm For flues on external walls				
		DN125	2651784	H40	162.00
		DN160	2651786	H40	267.00
	Note: Further extensions on request				

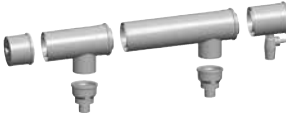

Multiple occupation and Cascades from 100kW

	Beschreibung	for product	Art. no.	DG	€
	Standard kit, balanced flue chimney, multiple connection Room sealed version Made from polypropylene up to 120°C Consisting of: <ul style="list-style-type: none"> • Complete shaft cover DN110 or DN125 incl. terminal pipe • 6 spacers DN11 or DN125 • Centric extension DN8 to DN110 or DN125 • 87° support bend DN60 - DN80 with support and support rail Pipe lengths must be ordered separately depending on the required height.				
		DN60 - DN110	2651450	H40	335.00
		DN60 - DN125	2651862	H40	453.00
	Note: A flue of appropriate length can be used for support instead of the support rail				
	Extension kit, balanced flue chimney, multiple connection Room sealed version Made from polypropylene up to 120°C Consisting of: <ul style="list-style-type: none"> • Floor tee DN110 or DN125 with outlet DN80, length 440mm • Eccentric extension DN6 to DN80 				
		DN110	2651861	H40	210.00
		125	2651863	H40	243.00
	FLOOR STATION WITH/WITHOUT THERMAL INSULATION COVERING DESIGN FOR HIGH TEMPERATURE HEATING CIRCUITS Room sealed version Made from polypropylene up to 120°C Consisting of: <ul style="list-style-type: none"> • Floor tee DN110 or DN125 with outlet DN80, length 440mm • Eccentric extension DN6 to DN80 				
		DN110	2652095	H40	358.00
		DN125	2652096	H40	434.00
	Flue Made from polypropylene up to 120°C Length 500 mm Length 1000 mm Length 2000 mm				
		DN110	2651668	H40	28.20
		DN125	2651698	H40	33.50
		DN110	2651669	H40	39.50
		DN125	2651699	H40	45.00
		DN110	2651670	H40	74.00
		DN125	2651700	H40	76.00

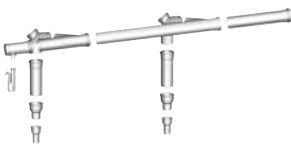
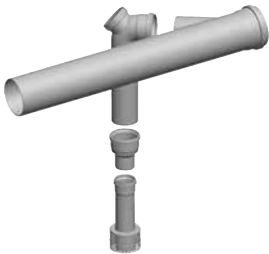

Multiple occupation and Cascades from 100kW

	Beschreibung	for product	Art. no.	DG	€
	Flue bend Made from polypropylene up to 120°C				
	15°	DN110	2651690	H40	28.60
		DN125	2651694	H40	31.10
	30°	DN110	2651691	H40	28.90
		DN125	2651695	H40	31.10
	45°	DN110	2651692	H40	28.60
		DN125	2651696	H40	31.10
	87°	DN110	2651693	H40	33.50
		DN125	2651697	H40	35.60
	87° inspection bend made of polypropylene up to 120°C length 250mm				
		DN110	2651571	H40	57.00
		DN125	2651864	H40	84.00
	Inspection pipe made of polypropylene up to 120°C length 250mm, for shaft installation				
		DN110	2651671	H40	57.00
		DN125	2651701	H40	84.00
	Coupling plug Made from polypropylene up to 12 °C	DN80	2651839	H40	72.00
	Spacer Plastic (max. recommended clearance 2 m)				
	1 set = 6 pcs	DN110	2651673	H40	58.00
	1 set = 6 pcs	DN125	2651702	H40	65.00


Multiple occupation and Cascades from 100kW

	Beschreibung	for product	Art. no.	DG	€
	Standard kit for cascade Room sealed version for CGB-2 up to 20 kW	DN110/160	2651826	H40	785.00
	Consisting of: <ul style="list-style-type: none"> • 2 extensions DN60/100 for pipe coupling DN80/125 • 2 extensions DN80/125 for pipe coupling DN110/160 • 2 headers DN110/110/160 • Air/flue pipe DN110/160 with condensate drain • End piece DN110/160 with inspection aperture • Trap for condensate drain • Tube of lubricant 50 ml An additional air/flue pipe is required between the appliances when installing a gas condensing centre.				
	Extension kit for cascade Room sealed version for CGB-2 up to 20 kW	DN110/160	2651827	H40	284.00
	Consisting of: <ul style="list-style-type: none"> • Extension DN60/1 for pipe coupling DN80/125 • Extension DN80/125 for pipe coupling DN110/160 • Header DN110/110/160 • Tube of lubricant 50 ml 				

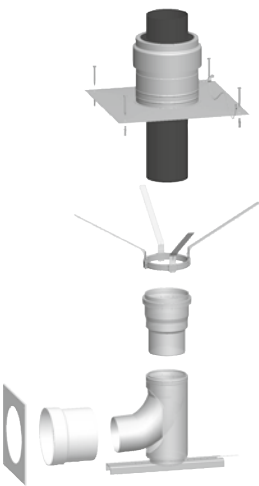
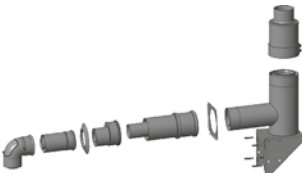
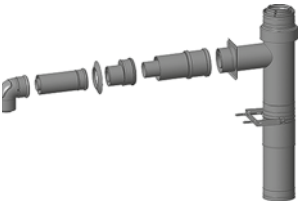

Multiple occupation and Cascades from 100kW

	Beschreibung	for product	Art. no.	DG	€
	Standard kit for cascade Ausführung raumluftabhängig aus Polypropylen bis 120° bestehend aus: <ul style="list-style-type: none"> • 2 Zuluftgittern • 2 Abgasrohren Länge 250mm • 2 Erweiterungen DN80 auf Muffe DN110 (bei 2651308), bzw. DN60 auf Muffen DN80 (bei 2651687) • 2 Revisionsbögen 87° • 2 Sammlern • Endstück mit Revisionsöffnung und Kondensatablauf • Siphon für Endstück • Gleitmittel-Tube 50ml 				
	COB-29, CGB-2 to 24 kW, TOB-18	DN110/110	2651686	H40	520.00
	COB-29, CGB-35/50, CGB-K-40-35	DN110/160	2651308	H40	530.00
	COB-40, CGB-75/100	DN110/160	2651310	H40	565.00
	Note: In Verbindung mit COB-29/40 ist eine motorgesteuerte Abgasklappe DN80 bzw.DN110 erforderlich.				
	Extension kit cascade DN110 Version dependent on room air consisting of: <ul style="list-style-type: none"> •Extension DN60 to socket DN80 (polypropylene) •Extension DN80 to socket DN110 (polypropylene) •Exhaust pipe DN110 x 250 (polypropylene) •Revision bend 87° DN110 (Polypropylene) •Collector DN110/110 (Polypropylene) •lubricant tube 50ml 				
	CGB-2 till 24kW, TOB-18	DN110/110	2651687	H40	213.00
	COB-29, CGB-35/50, CGB-K-40-35	DN110/160	2651309	H40	224.00
	COB-40, CGB-75/100	DN110/160	2651462	H40	339.00
	Note: Ab Nennweite Sammler DN200 siehe Rubrik ab 100kW.				
	Motorised flue gas damper For installation in the flue Length 200 mm				
		DN80/125 DN110	2651088 2651773	H40 H40	620.00 715.00

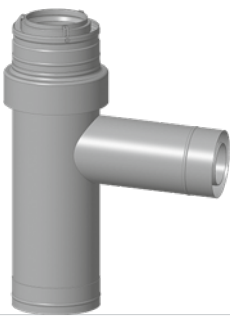
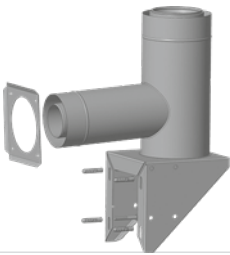

Multiple occupation and Cascades from 100kW

	Beschreibung	for product	Art. no.	DG	€
	Trap Polypropylene Effective height 230 mm		2071608	H40	26.80

Multiple occupation and Cascades from 100kW

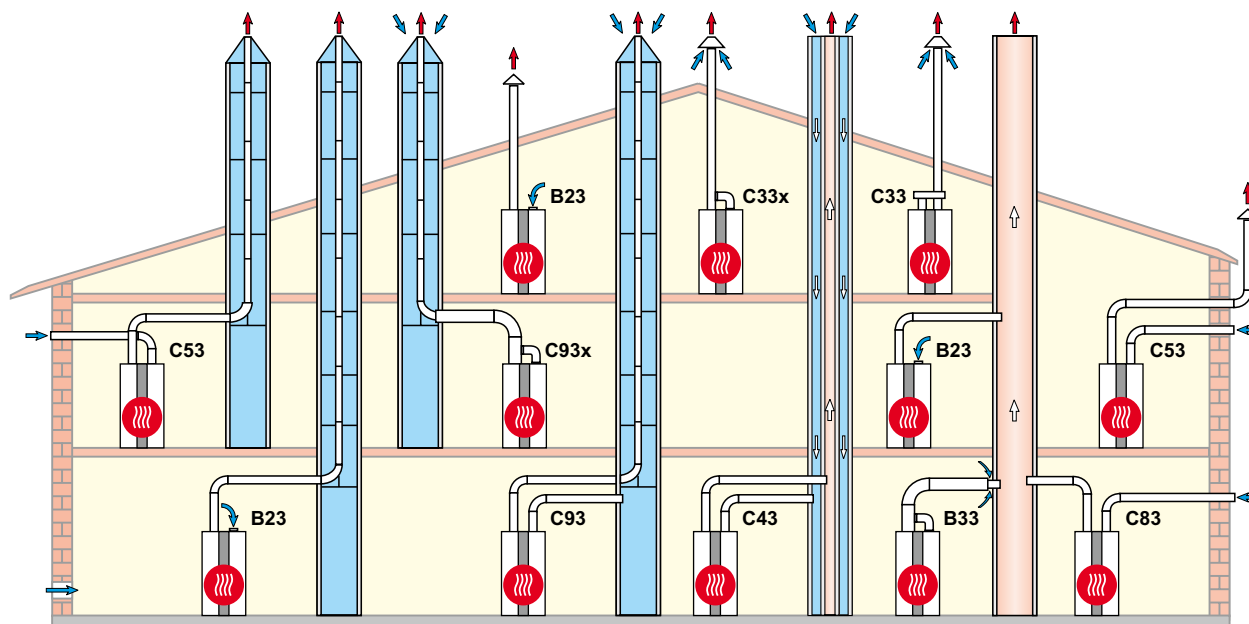
	Beschreibung	for product	Art. no.	DG	€
	<p>Shaft kit for cascade Room sealed version</p> <p>Consisting of:</p> <ul style="list-style-type: none"> • Shaft cover DN80 (polypropylene) with terminal pipe (polypropylene, black) • 6 spacers DN80 (polypropylene) <p>Reducer DN110 for pipe coupling DN8 (polypropylene)</p> <ul style="list-style-type: none"> • 87° support bend DN110 (polypropylene) with support* <p>Wall lining DN110/160 (stainless steel)</p> <ul style="list-style-type: none"> • Wall plate DN160 (stainless steel) • Tube of lubricant 50 ml • • Pipe sections must be ordered separately subject to required height. <p>DN110 connection – DN80 riser pipe DN110 connection – DN110 riser pipe DN110 connection – DN125 riser pipe DN110 connection – DN160 riser pipe To DN160 shaft / DN160 riser pipe</p> <p>Note: A flue of appropriate length can be used for support instead of the support rail.</p>	<p>DN110 on DN80 DN110 DN110 on DN125 DN110 on DN160 DN160/160</p>	<p>2651828 2651688 2651689 2651829 2651294</p>	<p>H40 H40 H40 H40 H40</p>	<p>224.00 253.00 414.00 472.00 440.00</p>
	<p>Basic kit multiple occupancy Facade</p> <p>Consisting of:</p> <ul style="list-style-type: none"> • Revision bend DN60/100 concentric 87° • Exhaust pipe DN60/100 concentric 1000mm • Cover plate DN100 • Eccentric extension DN60/100 - DN80/125 • Wall duct DN80/125 • External wall bracket DN80/125 - DN110/160 87° (stainless steel) • Muzzle closure DN110/160 (stainless steel) 	DN110/160	2652166	H40	755.00
	<p>Extension kit multiple occupancy facade</p> <p>Consisting of:</p> <ul style="list-style-type: none"> • Revision bend DN60/100 concentric 87° • Exhaust pipe DN60/100 concentric 1000mm • Cover plate DN100 • Eccentric extension DN60/100 - DN80/125 • Wall duct DN80/125 • Erg. set CLV Facade DN110/160 	DN110/160	2652167	H40	905.00
	<p>Template for wall bracket for external wall console</p>		2652171	H40	12.80

Multiple occupation and Cascades from 100kW

	Beschreibung	for product	Art. no.	DG	€
	Connection T-piece for multiple occupancy on the facade (outer wall) Stainless steel / polypropylene Outer pipe DN110/160 Outlet DN80/125	DN110/160	2652169	H40	369.00
	External wall console for multiple occupancy on the facade (outer wall) incl. wall cover (outside) and fixing material Stainless steel / polypropylene DN80/125 to DN110/160	DN110/160	2652168	H40	344.00
	Compensation piece for multiple occupancy on the facade (outer wall) adjustable from 590mm - 1000mm Stainless steel / polypropylene	DN110/160	2652170	H40	269.00

System overview

Condensing boilers over 100kW



Design variants

Type

B23	Flue gas line in the shaft and combustion air directly via boiler (room air-dependent)
B33	connection to flue gas chimney insensitive to moisture with horizontal connection pipe
C33x	vertical concentric roof duct through pitched roof or flat roof,
C43	vertical concentric air/flue gas duct for shaft installation (room air independent)
C43	connection to an air/flue gas chimney insensitive to moisture (room air-independent)
C53	Mouth for combustion air supply and flue gas ducting are in different pressure range (room air independent)
C53	Connection to flue gas line on the facade with horizontal connection line (length 2.5 m) (room air independent)
C63	Connection to flue gas line on the facade with horizontal concentric connection line (room air independent)
C83	The exhaust system is not tested and certified with the unit. It must comply with the respective building regulations of the countries.
C93	Connection to flue gas chimney insensitive to moisture and combustion air through outer wall (room air-independent)
C93X	vertical flue pipe for shaft installation with horizontal connection pipe (length 2.5 m) (room air independent)
	vertical flue for shaft installation with horizontal concentric connection pipe (length 2.5 m) (room air independent)

Note: The heat generators are also suitable for installation in frost-proof garages in room-air-independent operation.

If necessary, the installation examples must be adapted to the building and country-specific regulations. Questions regarding installation, in particular

and supply air openings (ventilation above 50 kW is generally required), must be discussed with the responsible with the responsible district chimney sweep prior to installation.

The length specifications refer to the concentric air/flue gas duct and flue gas pipes and only to original WOLF parts.

Please observe the maximum length of the horizontal flue gas line according to the installation instructions of the heat generator.

For the above installations, the following air/flue gas ducts or flue gas ducts with approval

CE-0036-CPD-9169003 may be used:

- Flue gas duct DN160 to DN315
- Concentric air/flue gas duct DN160/225 to DN315/400

The required identification plates are enclosed with the respective WOLF accessories.

System overview

Condensing boilers over 100kW

Single boiler system:

Design variants condensing boilers		Maximum length in meters vertical					
		MGK-2					
		DN	-130	-170	-210	-250	-300
B23(P)	Flue gas line in shaft and combustion air directly via boiler (room air-dependent)	160 ²⁾	50	50	47	35	20
		200 ³⁾	50	50	50	50	50
B33	Connection to flue gas chimney insensitive to moisture with horizontal connection pipe	160 ²⁾ 200 ³⁾	Calculation ¹⁾ to EN 13384-1				
C33	Combustion air supply and flue gas ducting via roof in common pressure area ⁴⁾	160 ²⁾ 200 ³⁾	Calculation ¹⁾ to EN 13384-1 (siehe auch Beispiel C33)				
C33(x)	Vertical concentric roof duct through pitched roof or flat roof; vertical concentric air/flue gas duct for shaft installation (each independent of room air)	160/225	15	15	13	8	3
		200/300	-	-	-	15	15
C43(x)	Connection to a humidity-insensitive Air/flue gas chimney (independent of room air)	160 ²⁾ 200 ³⁾	Calculation ¹⁾ to EN 13384-1				
C53	Mouths for combustion air supply and exhaust gas ducting are located in different pressure ranges (room air-independent)	160 ²⁾	50	50	47	35	20
		200 ³⁾	50	50	50	50	50
C53(x)	Connection to flue gas pipe facade with horizontal concentric connection pipe (length: 2.5m); room air independent	160/225	50	50	35	5	-
		200/300	-	-	-	50	50
C63	The exhaust system is not tested and certified with the unit. It must comply with the respective building codes of the countries.	160	Calculation ¹⁾ to EN 13384-1 (RLU)				
		200					
C83	Connection to exhaust gas chimney insensitive to moisture and combustion air through outside wall (room air-independent)	160	Calculation ¹⁾ to EN 13384-1				
		200					
C93	Vertical flue for shaft installation with horizontal eccentric connection pipe; room sealed	160	25	16	6	-	-
		200	30	32	32	26	32
C93x	Vertical flue for shaft installation with horizontal concentric connection pipe; room sealed	160	25	16	6	-	-
		200	30	32	32	26	32

¹⁾ Available delivery pressure of the fan:

MGK-2-130 $Q_{\max}/Q_{\min} = 200\text{Pa} / 10\text{Pa}$

MGK-2-170, -210, -250, -300 $Q_{\max}/Q_{\min} = 150\text{Pa} / 10\text{Pa}$

²⁾ Exhaust pipe DN 160 made of PP with approval number CE 0036CPD9169003

³⁾ Flue pipe DN 200 made of PP with approval number CE 0036CPD9169003

⁴⁾ Only original Wolf parts may be used.

System overview

Condensing boilers over 100 kW

Single boiler system:

Design variants condensing boilers		Maximum length in meters vertical						
		MGK-2						
		DN	-390	-470	-550	-630	-800	-1000
		160 ¹⁾	8	-	-	-	-	-
B23	Flue gas line in shaft and combustion air directly via boiler (room air-dependent)	200	50	40	19	9	-	-
		250	50	50	50	50	50	50
		315	-	-	-	-	50	50
B33	Connection to flue gas chimney insensitive to moisture with horizontal connection pipe	250	Calculation to EN 13384 (LAS-Hersteller)					
		315						
C33	Combustion air supply and exhaust gas ducting via roof in common pressure area	250	Calculation to EN 13384 (LAS-Hersteller)				-	-
		315					-	-
C33	Vertical concentric roof duct through pitched roof or flat roof; vertical concentric air/flue gas duct for shaft installation (room air-independent)	250/350	38	27	13	4	-	-
		315/400	47	38	22	13	-	-
C43	Connection to a moisture-insensitive air/flue gas chimney (independent of room air)	250	Calculation to EN 13384 (LAS-Hersteller)					
		315						
C53	Mouths for combustion air supply and exhaust gas routing are located in different pressure ranges (room air independent)	200	35	22	-	-	-	-
		250	50	50	50	24	50 ²⁾	40 ²⁾
		315	-	-	-	-	50 ²⁾	50 ²⁾
C53	Connection to flue gas pipe on the facade with horizontal eccentric connection pipe (length 2.5 m) (room air independent)	200/300	39	24	-	-	-	-
		250/350	50	50	50	34	50 ²⁾	37 ²⁾
		315/400	-	-	-	50	50 ²⁾	50 ²⁾
C63	The exhaust system is not tested and certified with the unit. It must comply with the respective building codes of the countries.	250	Calculation to EN 13384 (LAS-Hersteller)					
		315						
C83	Connection to exhaust gas chimney insensitive to moisture and combustion air through outside wall (room air independent)	250	Calculation to EN 13384 (LAS-Hersteller)					
		315						
C93	Vertical flue pipe for shaft installation with horizontal eccentric connection pipe, room air-independent supply air pipe DN200. The mouths are in the same pressure range, combustion air supply via existing shaft (edge length in mm)	250/250 (370×370)	50	45	16	-	-	-
		250/315	-	50	50	23	-	-
		(450×450)	-	-	-	33	19	9
		315/315	-	-	-	33	19	9
		(450×450)	-	-	-	33	19	9

¹⁾ Applies to horizontal connecting pipe DN 200 with 2m length and a bend with 87° (corresponds to 3m effective length).

²⁾ Supply air duct: 5m, 1 bend x 87

Remark:

Length of connecting pipe: 2 m, 1 additional bend with 87° (corresponds to 3m effective length).

Shaft cross-section = minimum ring splitting according to DIN 18160 part 1

Available discharge pressure of the fan: see technical data

(maximum length corresponds to total length from unit to exhaust gas mouth)

Note: The heat generators in room air independent operation are also suitable for installation in frost-proof garages.

If necessary, the installation examples must be adapted to the building and country-specific regulations. Questions regarding installation, in particular

and supply air openings, must be clarified with the responsible district chimney sweep prior to installation.

The length specifications refer to the concentric air/flue gas ducting and flue gas ducting and only to original WOLF parts.


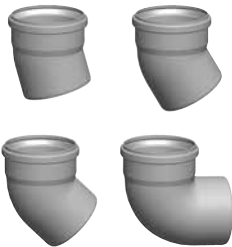



The following air/flue gas ducts or flue gas ducts with approval CE-0036-CPD-9169003 may be used:

- Flue gas duct DN 160, DN 200, DN 250 and DN 315







- Concentric air/flue gas duct DN 250/350 and DN 315/400

The required identification plates are enclosed with the respective WOLF accessories.





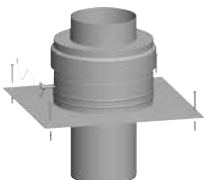


Accessories single-walled / concentric from 100kW

	Beschreibung	for product	Art. no.	DG	€
	Flue Made from polypropylene up to 120 °C				
	Length 250 mm	DN160	2651333	H40	22.80
		DN200	2651359	H40	97.00
		DN250	2651401	H40	99.00
	Length 500 mm	DN160	2651315	H40	36.20
		DN200	2651360	H40	104.00
		DN250	2651402	H40	138.00
		DN315	2651426	H40	494.00
	Length 1000 mm	DN160	2651316	H40	54.00
		DN200	2651361	H40	124.00
		DN250	2651403	H40	194.00
		DN315	2651427	H40	590.00
	Length 2000 mm	DN160	2651317	H40	78.00
		DN200	2651376	H40	235.00
		DN250	2651404	H40	309.00
		DN315	2651428	H40	850.00
	Flue bend Made from polypropylene up to 120 °C				
	15°	DN160	2651318	H40	33.90
	15°	DN200	2652015	H40	208.00
	30°	DN160	2651319	H40	33.90
	30°	DN200	2652016	H40	215.00
	30°	DN250	2651405	H40	225.00
	45°	DN160	2651320	H40	33.90
	45°	DN200	2652017	H40	222.00
	45°	DN250	2651406	H40	260.00
	87°	DN160	2651321	H40	38.40
	87°	DN200	2652018	H40	284.00
	90°	DN250	2651407	H40	301.00
		DN315	2651431	H40	760.00
	Spacer (recommended distance max. 2m)				
	made of polypropylene up to 120°C	DN160	2651322	H40	11.60
	made of stainless steel	MGK-2, CGB-75/100	2651375	H40	35.00
	made of stainless steel	DN250	2651413	H40	37.60
	made of stainless steel	DN315	2651437	H40	119.00
	Inspection pipe Made from polypropylene up to 120 °C				
	Length 290 mm	DN160	2651356	H40	97.00
	Length 600 mm	DN200	2651369	H40	260.00
	Length 600 mm	DN250	2651409	H40	370.00
	Length 600 mm	DN315	2651433	H40	885.00
	87° inspection bend Made from polypropylene up to 120 °C				
		DN160	2651357	H40	97.00
		DN200	2652019	H40	345.00
		DN250	2651408	H40	382.00
		DN315	2651432	H40	830.00




Accessories single-walled / concentric from 100kW

	Beschreibung	for product	Art. no.	DG	€
	87° support bend Made from polypropylene up to 120 °C	DN160	2651326	H40	132.00
		DN200	2651374	H40	367.00
	Adaptor For room sealed operation For installation with appliance, use supply air connector (part no. 2651327). Use inverted sleeve for external wall systems.	2 x DN160 >	2651332	H40	390.00
		DN160/225 2 x DN160 >	2651898	H40	845.00
		DN200/300 DN160 + DN200 >	2651830	H40	466.00
		DN200/300			
	Adaptor For connecting the air duct and the flue from the floorstanding gas condensing boiler connection and connecting a concentric flue Made from polypropylene up to 120°C	DN200 auf	2651851	H40	665.00
		DN250/350 DN200 auf	2651943	H40	1490.00
		DN315/400			
	Supply air connection piece Made from polypropylene up to 120°C	DN160	2651327	H40	187.00
	Inverted sleeve Made from stainless steel	DN225	2651868	H40	83.00
		DN300	2651869	H40	84.00
	Eccentric reducer Made from polypropylene up to 120 °C	DN200 auf DN160	2651330	H40	173.00



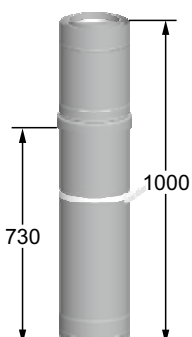
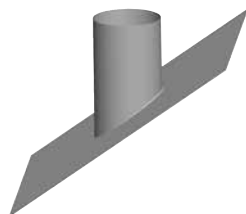
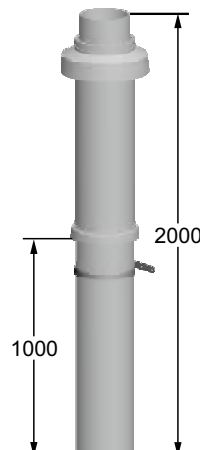
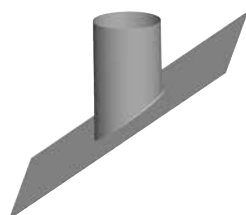
Accessories single-walled / concentric from 100kW

	Beschreibung	for product	Art. no.	DG	€
	Reducer Made from polypropylene up to 120 °C	DN200 auf DN160	2651370	H40	240.00
	Reducer Made from polypropylene up to 120 °C	DN250 auf DN200	2651849	H40	225.00
	Extension Made from polypropylene up to 120 °C	DN160 auf DN200	2651371	H40	132.00
		DN110 auf DN160	2652223	H40	324.00
	Eccentric extension Made from polypropylene up to 120 °C	DN160 auf DN200	2651372	H40	129.00
	Shaft cover Made from stainless steel				
	Terminal pipe, polypropylene UV black	DN160	2651355	H40	181.00
	Terminal pipe, polypropylene UV black	DN200	2651368	H40	318.00
	Terminal pipe, stainless steel	DN160	2651349	H40	254.00
	Terminal pipe, stainless steel	DN200	2651395	H40	365.00
	Terminal pipe, stainless steel	DN250	2651419	H40	495.00
	Pipe clip Including double-ended screw and rawl plug (Max. recommended clearance 2 m)				
		DN160	2651328	H40	21.00
		DN200	2651373	H40	80.00
		DN250	2651463	H40	89.00
		DN315	2651464	H40	95.00
	Pipe clip as installation aid Made from stainless steel with lowering straps				
		DN160	2651710	H40	36.20
		DN200	2651362	H40	32.70
		DN250	2651711	H40	46.00







Accessories single-walled / concentric from 100kW

	Beschreibung	for product	Art. no.	DG	€
	Support kit Made from polypropylene up to 120°C	DN250	2651853	H40	625.00
	Gasket 1 set = 5 pcs				
	For flue	DN160	2651351	H40	57.00
	For flue	DN200	2651397	H40	87.00
	For flue	DN250	2651421	H40	95.00
	Lubricant tube Content 50 ml		265132999	H40	9.40




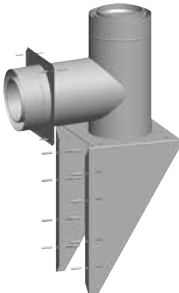



Accessories single-walled / concentric from 100kW

	Beschreibung	for product	Art. no.	DG	€	
	Outlet terminal Stainless steel / polypropylene, length 250 mm For flues on external walls					
		DN160/225	2651347	H40	271.00	
		DN200/300	2651394	H40	354.00	
		DN250/350	2651422	H40	402.00	
		DN315/400	2651444	H40	760.00	
	Ventilation air connector Stainless steel / polypropylene, length 250 mm For flues on external walls					
		DN160/225	2651350	H40	404.00	
		DN200/300	2651396	H40	482.00	
		DN250/350	2651420	H40	600.00	
		DN315/400	2651446	H40	715.00	
	Roof outlet for air/flue pipe Stainless steel/polypropylene Length 1000mm Including mounting bracket					
		DN160/225	2651346	H40	665.00	
		DN200/300	2651393	H40	890.00	
		DN250/350	2651418	H40	1045.00	
	Roof tile Stainless steel with flexible lead flashing, suitable for all roof coverings.					
		25-30°	DN160/225	2651454	H40	404.00
		30-35°	DN160/225	2651455	H40	404.00
		35-40°	DN160/225	2651456	H40	404.00
		40-45°	DN160/225	2651457	H40	404.00
	Concentric roof outlet For concentric flue gas duct DN160/225 without supply air , polyethylene, black Consisting of: Air/flue gas duct for vertical roof outlet with fixing bracket	COB-29/40, MGK-2-130-300, CGB-75/100	2651345	H40	480.00	
	Universal tile For concentric flue DN160/225 Plastic with flexible lead flashing, suitable for all roof coverings. 25-45° black	DN186	2651460	H40	164.00	

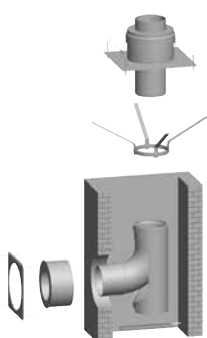
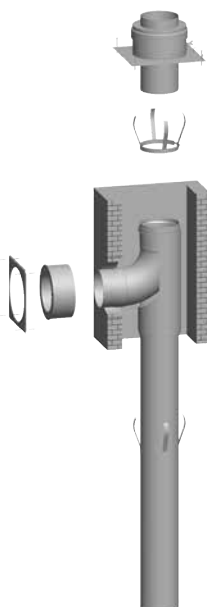
Accessories single-walled / concentric from 100kW

	Beschreibung	for product	Art. no.	DG	€
	Flat roof collar Stainless steel for vertical roof outlet				
	DN186	DN160/225	2651459	H40	80.00
	DN225	DN160/225	2651458	H40	310.00
	DN300	DN200/300	2651400	H40	350.00
	DN350	DN250/350	2651425	H40	390.00
	Concentric pipe Stainless steel/polypropylene Suitable for indoor and outdoor installation				
	Length 500 mm	DN160/225	2651334	H40	179.00
		DN200/300	2651383	H40	329.00
		DN250/350	2651410	H40	354.00
	Length 1000 mm	DN160/225	2651335	H40	265.00
		DN200/300	2651384	H40	473.00
		DN250/350	2651411	H40	540.00
	Length 2000 mm	DN315/400	2651435	H40	1310.00
	Clamp fitting				
		DN225	2651832	H40	132.00
		DN300	2651865	H40	127.00
		DN350	2651866	H40	167.00
		DN400	2651867	H40	179.00
	Adjustable wall retainer Stainless steel (max. recommended clearance 2 m)				
		DN225	2651353	H40	172.00
		DN300	2651399	H40	255.00
		DN350	2651424	H40	265.00
		DN400	2651448	H40	382.00
	Concentric bend Stainless steel/polypropylene Suitable for indoor and outdoor installation				
	15°	DN160/225	2651336	H40	211.00
		DN160/225	2651337	H40	215.00
	30°	DN200/300	2651385	H40	215.00
		DN160/225	2651338	H40	222.00
	45°	DN200/300	2651386	H40	222.00
		DN250/350	2651831	H40	590.00
	90°	DN160/225	2651339	H40	284.00
		DN200/300	2651387	H40	284.00
	Concentric inspection pipe Stainless steel/polypropylene Suitable for indoor and outdoor installation				
	Length 400 mm	DN160/225	2651340	H40	471.00
	Length 600 mm	DN200/300	2651388	H40	740.00
	Length 600 mm	DN250/350	2651412	H40	1275.00
	Length 600 mm	DN315/400	2651436	H40	1860.00

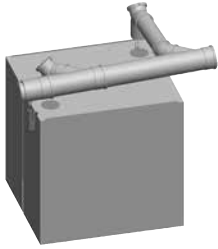
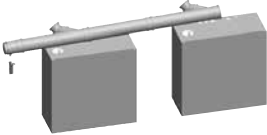
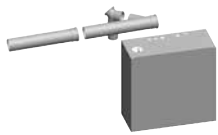
Accessories single-walled / concentric from 100kW

	Beschreibung	for product	Art. no.	DG	€
	Concentric wall outlet Length 500mm, stainless steel/polypropylene Suitable for indoor and outdoor installation				
		DN160/225	2651342	H40	207.00
		DN200/300	2651390	H40	245.00
		DN250/350	2651415	H40	257.00
		DN315/400	2651439	H40	310.00
	Concentric wall lining Stainless steel				
		DN160/225	2651343	H40	78.00
		DN200/300	2651391	H40	104.00
		DN250/350	2651416	H40	105.00
		DN315/400	2651440	H40	119.00
	Wall plate Stainless steel for covering the wall opening				
		DN225	2651323	H40	40.00
		DN300	2651398	H40	62.00
		DN350	2651423	H40	103.00
		DN400	2651447	H40	144.00
	External wall bracket, concentric Stainless steel / polypropylene including wall plate (external) and fixing materials				
		DN160/225	2651344	H40	1025.00
		DN200/300	2651392	H40	1795.00
		DN250/350	2651417	H40	2145.00
		DN315/400	2651441	H40	3500.00
	Note: A ventilation air connector for air/flue pipes is required for room sealed operation.				
	Universal Y pipe Made from polypropylene up to 12 °C		on request		
	Gasket 1 set = 5 pcs				
		For flue			
		For flue			
		For flue			
		DN160	2651351	H40	57.00
		DN200	2651397	H40	87.00
		DN250	2651421	H40	95.00
	Lubricant tube Content 50 ml		265132999	H40	9.40


Accessories single-walled / concentric from 100kW

	Beschreibung	for product	Art. no.	DG	€
	Shaft kit Room sealed version, C33, C53 or Open flue version, B23 consisting of: <ul style="list-style-type: none"> • Shaft cover DN160 (stainless steel) with discharge pipe (polypropylene, black) • Spacer DN160 • Support bend 87° DN160 (polypropylene) with support • Wall lining DN160/225 (stainless steel) • Wall plate DN225 (stainless steel) • Lubricant tube 50ml Pipe lengths are to be ordered separately, appropriately for the height.				
	To DN160 shaft / DN160 riser pipe	DN160/160	2651294	H40	440.00
	To DN160 shaft / DN200 riser pipe	DN160/200	2651465	H40	635.00
	To DN200 shaft / DN200 riser pipe	DN200/200	2651295	H40	1025.00
	Shaft kit Room sealed version, C33, C53 or Open flue version, B23 consisting of: <ul style="list-style-type: none"> • Shaft cover DN160 (stainless steel) with discharge pipe (polypropylene, black) • Spacer DN160 • Support bend 87° DN160 (polypropylene) with support • Wall lining DN160/225 (stainless steel) • Wall plate DN225 (stainless steel) • Lubricant tube 50ml Pipe lengths are to be ordered separately, appropriately for the height.				
	To DN250 shaft / DN250 riser pipe	DN250/250	2651297	H40	1960.00
	To DN315 shaft / DN315 riser pipe	MGK-2	2651299	H40	3140.00

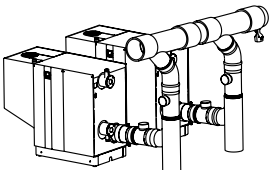



Multiple occupation and Cascades from 300kW

	Beschreibung	for product	Art. no.	DG	€
	MGK-2 Twin standard kit Version dependent on room air made of polypropylene up to 120° C consisting of: <ul style="list-style-type: none"> • 2 inspection bends 87° DN200 • Exhaust pipe DN200 × 300mm • Elbow DN200 × 45 • 2 collectors DN200/250 • End piece DN250 with inspection opening and condensate drain • Siphon for end piece • lubricant tube 50ml 				
	MGK-2-170/210/250	DN160/200	2651292	H40	1250.00
	MGK-2-300	DN200/250	2651293	H40	1960.00
	MGK-2 series standard kit Version dependent on room air made of polypropylene up to 120°C consisting of: <ul style="list-style-type: none"> • 2 inspection bends 87° DN160 • 2 collectors DN160/200 • Exhaust pipe DN200 × 1000mm • End piece DN200 with inspection opening and condensate drain • Siphon for end piece • lubricant tube 50ml 				
	MGK-2-130/170/210/250	DN160/200	2651300	H40	1395.00
	MGK-2-170/210/250	DN160/250	2651302	H40	1440.00
	MGK-2-300	DN200/250	2651304	H40	1905.00
	MGK-2-300	DN200/315	2651306	H40	3585.00
	MGK-2 series extension kit Version dependent on room air made of polypropylene up to 120°C consisting of: <ul style="list-style-type: none"> • Revision bend 87° DN160 • Collector DN160/200 • Exhaust pipe DN200 × 1000mm • lubricant tube 50ml 				
	MGK-2-130/170	DN160/200	2651301	H40	650.00
	MGK-2-170/210/250	DN160/250	2651303	H40	675.00
	MGK-2-300	DN200/250	2651305	H40	865.00
	MGK-2-300	DN200/315	2651307	H40	1830.00

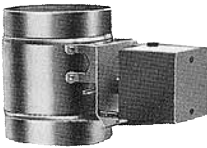
Multiple occupation and Cascades from 300kW

	Beschreibung	for product	Art. no.	DG	€
	Hose kit for header end piece For flue gas cascades for connection to the neutraliser Consisting of: Trap, 3x condensate hose and tee MGK-2-130-300		8752656	H40	92.00
	Trap Polypropylene Effective height 230 mm		2071608	H40	26.80

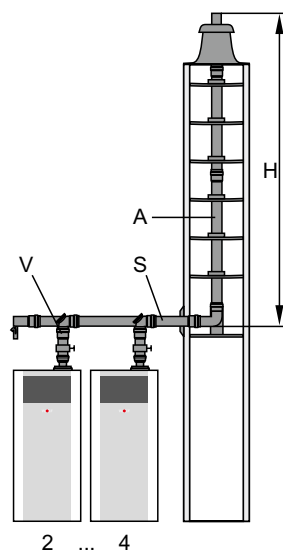
Multiple occupation and Cascades from 300kW

	Beschreibung	for product	Art. no.	DG	€
	Standard kit for flue cascade for two MGK-2-390-1000, version dependent on room air consisting of: <ul style="list-style-type: none"> • 4 inspection pipes DN 250 • 2 supports DN 250 • 2 bends 45° DN 250 • 2 collecting pipes DN 250/315 • 1 pipe DN315 × 500mm • 1 inspection end piece DN 315 • 1 siphon blocking height 90 XL • 1 condensate hose 260mm • 1 T-pipe connector • 2 lubricant tubes 50ml 	DN250/315	8752099	H40	9330.00
	Header (cascade) made of polypropylene up to 120° C consisting of: Pipe DN315 with outlet DN250 - 42° for connecting a gas condensing boiler with connection pipe DN250	DN250/315	2651852	H40	970.00
	Inspection end piece made of polypropylene up to 120°C with inspection cover and condensate connection length 440mm	DN315	2651860	H40	810.00
	Trap Polypropylene Effective height 230 mm		2071608	H40	26.80

Flue gas routing Heating value boilers

	Beschreibung	for product	Art. no.	DG	€
	Motorised flue gas damper For installation in the flue	DN110	2484069	H40	555.00
		DN130	2484070	H40	560.00

Cascade (overpressure) room air dependent COB-2-29/40



The following bases were taken into account in all calculations for the design tables:

- Length between the individual devices: 1.0m
- length after the last device: 2,0m
- Resistors: 2 pieces of 45° bends in the diameter of the collector pipe (optionally as lateral offset or as 90° deflection)
- combustion air supply: from the installation room
- Shaft back-ventilation: in co-current principle
- Geodetic height: 325 meters

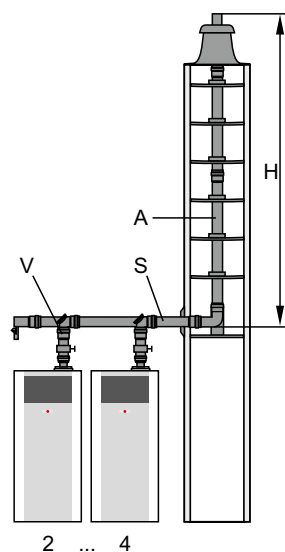
COB-2		V Nominal width Connection line to the de- vice	S Nominal size Collector	A Nominal size Flue pipe vertical	round minimum shaft size	angular minimum shaft size	H reachable height from shaft entran- ce to shaft mouth
29	2x Series	DN110	DN110	DN110	188mm	168mm	39m
	2x Series	DN110	DN110	DN160	244mm	224mm	50m
	3x Series	DN110	DN110	DN110	188mm	168mm	9m
	3x Series	DN110	DN110	DN160	244mm	224mm	50m
	4x Series	DN110	DN110	DN160	244mm	224mm	29m
	4x Series	DN110	DN110	DN200	280mm	260mm	50m
40	2x Series	DN110	DN110	DN110	188mm	168mm	32m
	2x Series	DN110	DN110	DN160	244mm	224mm	50m
	3x Series	DN110	DN110	DN160	244mm	224mm	50m
	4x Series	DN110	DN110	DN200	280mm	260mm	49m

Cascade (overpressure) room air dependent TOB-18

TOB		V Nominal width Connection line to the device	S Nominal size Collector	A Nominal size Flue pipe vertical	round minimum shaft size	angular minimum shaft size	H reachable height from shaft entrance to shaft mouth
18	2x Series	DN110	DN110	DN110	188mm	168mm	30m
	3x Series	DN110	DN110	DN110	188mm	168mm	30m
	4x Series	DN110	DN110	DN110	188mm	168mm	29m

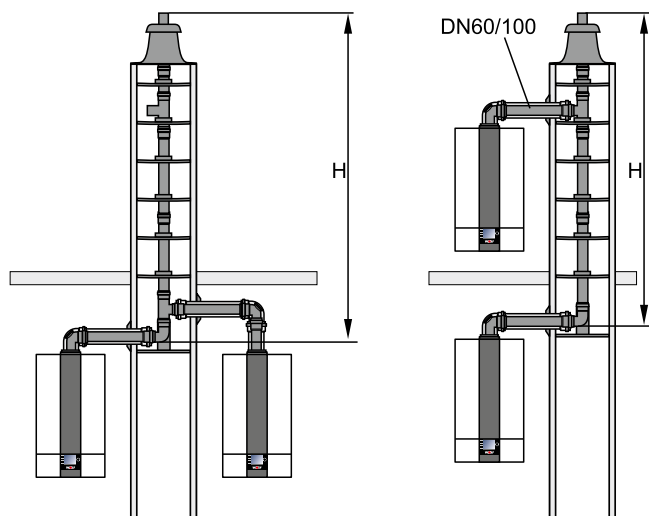
Cascades

Cascade (overpressure) room air dependent
TGB-2-20/30/40



TGB-2		V Nominal width Connection line to the de- vice	S Nominal size Collector	A Nominal size Flue pipe vertical	round minimum shaft size	angular minimum shaft size	H reachable height from shaft entran- ce to shaft mouth
20	2x Series	DN110	DN110	DN110	188mm	168mm	30m
	3x Series	DN110	DN110	DN110	188mm	168mm	21m
	4x Series	DN110	DN160	DN160	244mm	224mm	30m
	5x Series	DN110	DN160	DN160	244mm	224mm	30m
30	2x Series	DN110	DN110	DN110	188mm	168mm	30m
	2x Series	DN110	DN160	DN160	244mm	224mm	30m
	3x Series	DN110	DN160	DN160	244mm	224mm	30m
40	2x Series	DN110	DN110	DN110	188mm	168mm	50m
	3x Series	DN110	DN110	DN110	188mm	168mm	11m
	3x Series	DN110	DN160	DN160	244mm	224mm	50m
	4x Series	DN110	DN160	DN160	244mm	224mm	50m
	5x Series	DN110	DN160	DN160	244mm	224mm	41m

Multiple occupancy room sealed CGB-2(K)-14/20/24, CGS-2, CGW-2

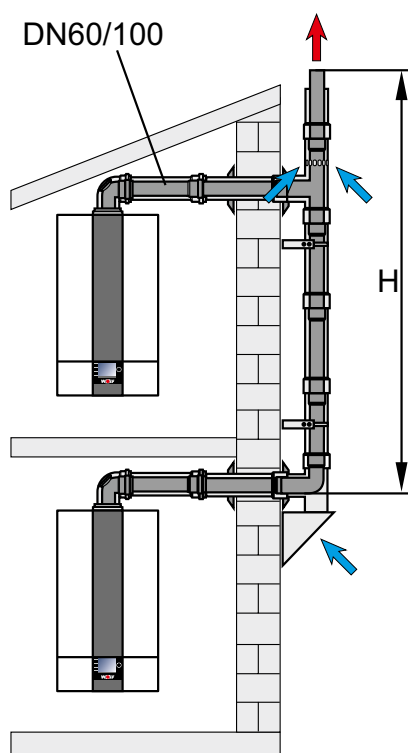


The following bases were taken into account in all calculations for the design tables:

- Connection line to the shaft: 1 x inspection bend 87° and 1m air / exhaust gas duct
- Safety factor 1.2
- Minimum distance between the individual fireplaces: 0.25m
- shaft cross section: DN110 - 168mm x 168mm
DN125 - 186mm x 186mm
- Maximum operating pressure: 60Pa

		Max. Abgaslänge vertikal in m					
Anzahl Geräte	Geräte/Etage	CGB-2 14		CGB-2 20		CGB-2 24	
		DN110	DN125	DN110	DN125	DN110	DN125
2	1	50	50	50	50	50	50
	2	50	50	50	50	50	50
3	1	50	50	31	48	26	43
	2	50	50	29	46	24	41
4	1	35	50	19	32	15	26
	2	33	50	16	29	12	24
5	1	26	41	14	23	11	18
	2	22	38	10	19	7,5	14
6	1	20	32	-	17	-	14
	2	15	28	-	12	-	9

Multiple occupancy room air independent facade CGB-2(K)-14/20/24, CGS-2, CGW-2



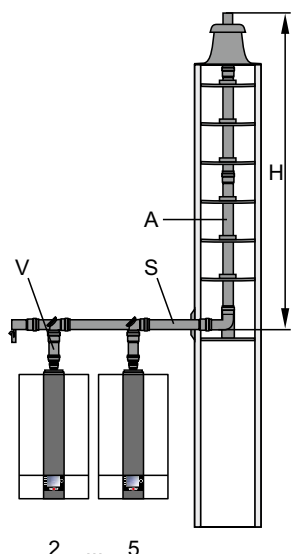
The following bases were taken into account in all calculations for the design tables:

- Connectors: 1 m length, DN60/100, 1 bend x 87°.
- Flow safety factor: 1.2
- vertical flue pipe: DN110/160
- vertical distance of connecting pieces: 2,5m
- max. operating pressure: 100Pa

		Max. Flue gas length vertical in m		
Quantity devices	Devices/ Floor	CGB-2 14 DN110/160	CGB-2 20 DN110/160	CGB-2 24 DN110/160
		DN110/160	DN110/160	DN110/160
2	1	50	50	50
3	1	50	45	35
4	1	50	22,5	17,5
5	1	50	14	-
6	1	35,5	-	-

Cascades

Cascade (positive pressure) room air dependent
CGB-2(K), CGS-2, CGW-2 bis 24kW

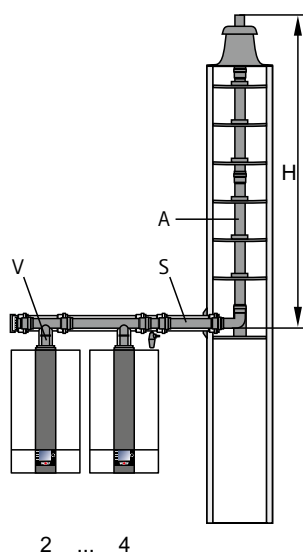


The following bases were taken into account in all calculations for the design tables:

- Length between the individual devices: 1.0m
- length after the last device: 2,0m
- Resistors: 2 pieces of 45° bends in the diameter of the collector pipe (optionally as lateral offset or as 90° deflection)
- combustion air supply: from the installation room
- Shaft back-ventilation: in co-current principle
- Geodetic height: 325 meters

CGB-2(K) / CGS-2 / CGW-2	V Nominal width Connection line to the de- vice	S Nominal size Collector	A Nominal size Flue pipe vertical	round minimum shaft size	angular minimum shaft size	H reachable height from shaft entran- ce to shaft mouth
14 + 14	DN110	DN110	DN110	188mm	168mm	50m
20 + 20	DN110	DN110	DN110	188mm	168mm	50m
20 + 24	DN110	DN110	DN110	188mm	168mm	50m
24 + 24	DN110	DN110	DN110	188mm	168mm	50m
14 + 14 + 14	DN110	DN110	DN110	188mm	168mm	50m
20 + 20 + 20	DN110	DN110	DN110	188mm	168mm	50m
20 + 20 + 24	DN110	DN110	DN110	188mm	168mm	47m
	DN110	DN110	DN125	205mm	185mm	50m
20 + 24 + 24	DN110	DN110	DN110	188mm	168mm	44m
	DN110	DN110	DN125	205mm	185mm	50m
24 + 24 + 24	DN110	DN110	DN110	188mm	168mm	44m
	DN110	DN110	DN125	205mm	185mm	50m
14 + 14 + 14 + 14	DN110	DN110	DN110	188mm	168mm	50m
20 + 20 + 20 + 20	DN110	DN110	DN110	188mm	168mm	24m
	DN110	DN110	DN125	205mm	185mm	50m
20 + 20 + 20 + 24	DN110	DN110	DN110	188mm	168mm	19m
	DN110	DN110	DN125	205mm	185mm	47m
	DN110	DN125	DN125	205mm	185mm	50m
20 + 20 + 24 + 24	DN110	DN110	DN110	188mm	168mm	15m
	DN110	DN110	DN125	205mm	185mm	40m
	DN110	DN125	DN125	205mm	185mm	46m
	DN110	DN125	DN160	244mm	224mm	50m
20 + 24 + 24 + 24	DN110	DN110	DN110	188mm	168mm	12m
	DN110	DN110	DN125	205mm	185mm	33m
	DN110	DN125	DN125	205mm	185mm	40m
	DN110	DN125	DN160	244mm	224mm	50m
24 + 24 + 24 + 24	DN110	DN110	DN110	188mm	168mm	15m
	DN110	DN110	DN125	205mm	185mm	39m
	DN110	DN125	DN125	205mm	185mm	45m
	DN110	DN125	DN160	244mm	224mm	50m

Cascade (positive pressure) room air independent CGB-2(K)-14/20, CGS-2-20/160, CGW-2-14/100, CGW-2-20/120



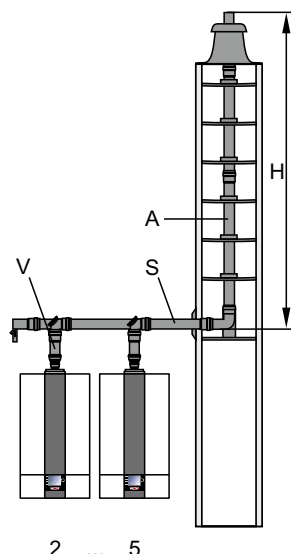
The following bases were taken into account in all calculations for the design tables:

- Length between the individual devices: 1.0m
- length after the last device: 2,0m
- Resistors: 2 pieces 45° bends in the diameter of the header pipe (optionally as lateral offset or as 90° deflection)
- Geodetic height: 325 meters
- Calculation software Kesa Aladin
- Max. Operating pressure 60Pa

CGB-2(K) / CGS-2 / CGW-2		V Nominal width Connection line to the de- vice	S Nominal size Collector	A Nominal size Flue pipe vertical	round minimum shaft size	angular minimum shaft size	H reachable height from shaft entran- ce to shaft mouth
14 + 14	2-er Series	DN80/125	DN110/160	DN80	155mm	135mm	24m
14 + 14 + 14	3-er Series	DN80/125	DN110/160	DN80	155mm	135mm	10m
	3-er Series	DN80/125	DN110/160	DN110	188mm	168mm	49m
14 + 14 + 14 + 14	4-er Series	DN80/125	DN110/160	DN110	188mm	168mm	27m
20 + 20	2-er Series	DN80/125	DN110/160	DN80	155mm	135mm	9m
		DN80/125	DN110/160	DN110	188mm	168mm	50m
20 + 20 + 20	3-er Series	DN80/125	DN110/160	DN110	188mm	168mm	24m
20 + 20 + 20 + 20	4-er Series	DN80/125	DN110/160	DN110	188mm	168mm	6m
24 kW - Devices		Calculation on demand					

Cascades

Cascade (positive pressure) room air dependent
CGB-2-38/55

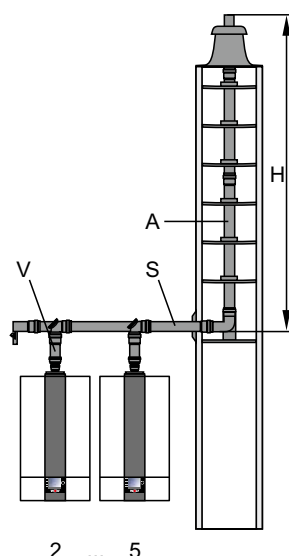


The following bases were taken into account in all calculations for the design tables:

- Length between the devices: 1m
- Length after the last device: 2.0 m
- resistances: 1 arc x 87
- room air dependent operation
- geod. height 325m
- max. operating pressure: 50Pa.
- partial load pressure of the units: 20 Pa each
- Otherwise unit data from database Kesa Aladin
- Si = 1,2
- Design of pressure conditions only
- one unit in partial load, the rest in full load is considered
- header DN160/110 (boiler spigot DN80)

CGB-2		V Nominal width Connection line to the de- vice	S Nominal size Collector	A Nominal size Flue pipe vertical	round minimum shaft size	angular minimum shaft size	H reachable height from shaft entran- ce to shaft mouth
38	2er Series	DN110	DN110	DN110	188mm	168mm	22m
38	2er Series	DN110	DN160	DN110	188mm	168mm	25m
38	2er Series	DN110	DN160	DN125	205mm	185mm	50m
38	3er Series	DN110	DN160	DN125	205mm	168mm	8m
38	3er Series	DN110	DN160	DN160	205mm	185mm	50m
38	4er Series	DN110	DN160	DN160	205mm	185mm	21m
38	4er Series	DN110	DN160	DN200	285mm	265mm	50m
38	5er Series	DN110	DN160	DN200	285mm	265mm	50m
55	2er Series	DN110	DN110	DN110	188mm	168mm	20m
55	2er Series	DN110	DN160	DN160	205mm	185mm	50m
55	3er Series	DN110	DN160	DN160	205mm	185mm	50m
55	4er Series	DN110	DN160	DN160	205mm	185mm	46m
55	4er Series	DN110	DN160	DN200	285mm	265mm	50m
55	5er Series	DN110	DN160	DN200	285mm	265mm	20m
55	5er Series	DN110	DN160	DN200	285mm	265mm	50m

Cascade (positive pressure) room air dependent CGB-75/100, CGB-2-75/100



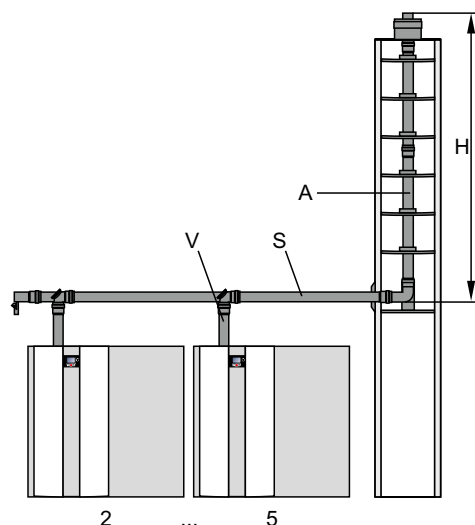
The following bases were taken into account in all calculations for the design tables:

- Length between the individual devices: 1.0m
- length after the last device: 2,0m
- Resistors: 2 pieces of 45° bends in the diameter of the collector pipe (optionally as lateral offset or as 90° deflection)
- combustion air supply: from the installation room
- Shaft back-ventilation: in co-current principle
- Geodetic height: 325 meters

CGB		V Nominal width Connection line to the de- vice	S Nominal size Collector	A Nominal size Flue pipe vertical	round minimum shaft size	angular minimum shaft size	H reachable height from shaft entran- ce to shaft mouth
75	2x Series	DN110	DN160	DN160	244mm	224mm	25m
	2x Series	DN110	DN160	DN200	285mm	265mm	50m
	3x Series	DN110	DN200	DN200	285mm	265mm	50m
	4x Series	DN110	DN250	DN250	333mm	313mm	50m
	4x Series	DN110	DN250	DN250	333mm	313mm	50m
	5x Series	DN110	DN250	DN250	411mm	351mm	50m
100	2x Series	DN110	DN160	DN160	244mm	224mm	25m
	2x Series	DN110	DN160	DN200	285mm	265mm	50m
	3x Series	DN110	DN200	DN250	333mm	313mm	50m
	4x Series	DN110	DN250	DN250	333mm	313mm	50m
	5x Series	DN110	DN250	DN315	411mm	351mm	50m
	5x Series	DN110	DN250	DN250	411mm	351mm	50m
2-75	2x Series	DN110	DN160	DN160	244mm	224mm	47m
	2x Series	DN110	DN160	DN200	285mm	265mm	50m
	3x Series	DN110	DN160	DN200	285mm	265mm	31m
	3x Series	DN110	DN200	DN200	285mm	265mm	50m
	4x Series	DN110	DN200	DN250	333mm	313mm	50m
	5x Series	DN110	DN250	DN250	411mm	351mm	50m
2-100	2x Series	DN110	DN160	DN160	244mm	224mm	26m
	2x Series	DN110	DN160	DN200	285mm	265mm	50m
	3x Series	DN110	DN200	DN200	285mm	265mm	22m
	3x Series	DN110	DN200	DN250	333mm	313mm	50m
	4x Series	DN110	DN250	DN250	333mm	313mm	50m
	5x Series	DN110	DN250	DN315	411mm	351mm	50m

Cascades

Cascade (overpressure) room air dependent MGK-2-130-300



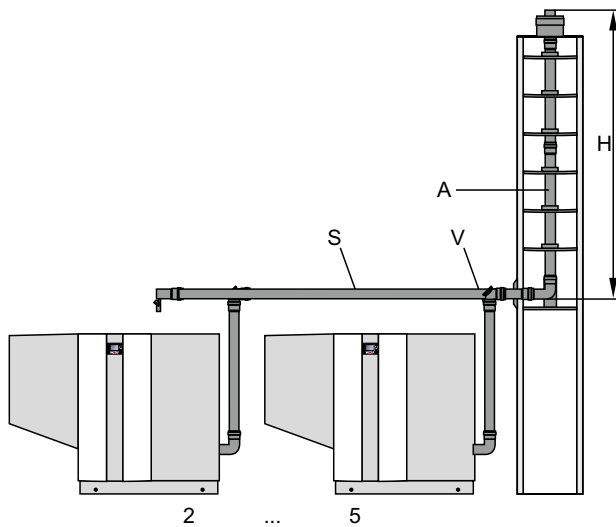
The following bases were taken into account in all calculations for the design tables:

- Length between the individual devices: 1.0m
- length after the last device: 2,0m
- Resistors: 2 pieces of 45° bends in the diameter of the collector pipe (optionally as lateral offset or as 90° deflection)
- combustion air supply: from the installation room
- Shaft back-ventilation: in co-current principle
- Geodetic height: 325 meters

For pipe cross-sections not specified, a calculation or design according to EN 13384-2 is required.

MGK-2		V Nominal width Connection line to the de- vice	S Nominal size Collector	A Nominal size Flue pipe vertical	round minimum shaft size	angular minimum shaft size	H reachable height from shaft entran- ce to shaft mouth
130	2x Series	DN160	DN200	DN200	280mm	260mm	50m
	3x Series	DN160	DN250	DN250	330mm	310mm	50m
	4x Series	DN160	DN250	DN250	330mm	310mm	45m
	4x Series	DN160	DN250	DN315	420mm	400mm	50m
	5x Series	DN160	DN250	DN315	420mm	400mm	50m
170	2x Twin	DN160	DN200	DN200	280mm	260mm	50m
	2x Series	DN160	DN200	DN200	280mm	260mm	50m
	3x Series	DN160	DN250	DN250	330mm	310mm	50m
	4x Series	DN160	DN250	DN315	420mm	400mm	50m
	5x Series	DN160	DN315	DN315	420mm	400mm	50m
210	2x Twin	DN160	DN200	DN200	280mm	260mm	35m
	2x Twin	DN160	DN200	DN250	330mm	310mm	50m
	2x Series	DN160	DN200	DN200	280mm	260mm	37m
	2x Series	DN160	DN250	DN250	330mm	310mm	50m
	3x Series	DN160	DN250	DN250	330mm	310mm	32m
	3x Series	DN160	DN250	DN315	420mm	400mm	50m
	4x Series	DN160	DN250	DN315	420mm	400mm	50m
	5x Series	Calculation auf Anfrage					
250	2x Twin	DN160	DN200	DN200	280mm	260mm	13m
	2x Twin	DN160	DN200	DN250	330mm	310mm	50m
	2x Series	DN160	DN200	DN200	280mm	260mm	13m
	2x Series	DN160	DN250	DN250	330mm	310mm	50m
	3x Series	DN160	DN250	DN315	420mm	400mm	50m
	4x Series	DN160	DN315	DN315	420mm	400mm	37m
	5x Series	Calculation auf Anfrage					
300	2x Twin	DN200	DN250	DN250	330mm	310mm	50m
	2x Series	DN200	DN250	DN250	330mm	310mm	50m
	3x Series	DN200	DN250	DN315	420mm	400mm	50m
	3x Series	DN200	DN315	DN315	420mm	400mm	50m
	4x Series	DN200	DN315	DN315	420mm	400mm	50m
	5x Series	Calculation auf Anfrage					

Cascade (overpressure) room air dependent MGK-2-390-630, 800-1000



Folgende Grundlagen wurden bei allen Calculationen für die Auslegungstabellen berücksichtigt:




- Länge zwischen den einzelnen Geräten: 1,0m
- Länge to dem letzten Gerät: 2,0m
- Widerstände: 2 Stück 45° Bogen im Durchmesser des Sammlerrohres (wahlweise als seitlicher Versatz oder als 90° Umlenkung)
- Verbrennungsluftversorgung: vom Aufstellraum
- Schachthinterlüftung: im Gleichstromprinzip
- Geodätische Höhe: 325 Meter
- Für nicht angegebene Rohrquerschnitte ist eine Calculation bzw. Auslegung to EN 13384-2 erforderlich.

MGK		V Nominal width Connection line to the de- vice	S Nominal size Collector	A Nominal size Flue pipe vertical	round minimum shaft size	angular minimum shaft size	H reachable height from shaft entran- ce to shaft mouth
390	2x Series	DN250	DN315	DN315	420mm	400mm	50m
	3x Series	DN250	DN315	DN315	420mm	400mm	42m
	4x Series	Calculation auf Anfrage					
470	2x Series	DN250	DN315	DN315	420mm	400mm	50m
	3x Series	Calculation auf Anfrage					
550	2x Series	DN250	DN315	DN315	420mm	400mm	50m
	3x Series	Calculation auf Anfrage					
630	2x Series	DN250	DN315	DN315	420mm	400mm	50m
	3x Series	Calculation auf Anfrage					
800	2x Series	DN250	DN315	DN315	420mm	400mm	36m
	3x Series	Calculation auf Anfrage					
1000	2x Series	Calculation auf Anfrage					





WOLF solar

High performance solar collector TopSon F3-1 / CFK-1 / TopSon F3-1Q	Page 188
Connection set TopSon F3-1 / CFK-1 / TopSon F3-1Q	Page 189
Rooftop mounting kit	Page 190
On-roof mounting set for corrugated/sheet metal roofs	Page 196
AluPlus rooftop mounting	Page 198
Erection scaffolds for horizontal surface or wall mounting	Page 200
In-roof mounting set single row	Page 201
In-roof mounting set multi-row	Page 203
High performance vacuum tube collector CRK-12	Page 204
Rooftop mounting kit for CRK-12	Page 206
Regulations for solar thermal energy	Page 207
Accessories	Page 210
Technical data	Page 216

High-performance solar collector TopSon F3-1 / CFK-1 / TopSon F3-1Q

	Description	Art. no.	DG	€
	TopSon F3-1 high performance solar collector, portrait format Absorber with highly selective coating, pan collector made from highly weather-resistant aluminium, 3.2 mm safety glass, hailstone impact tested with improved transparency. Mineral wool insulation 6 mm. Self-supporting casing. Collector weather and temperature-resistant even during stagnation. Gross collector area 2.3 m ²			
	Glazing bead silver	7700965	H20	679.00
	Glazing bead dark grey	7701155	H20	710.00
	Note: 2 expansion joints are required for each connection between the collectors to compensate for thermal expansion. For 2 "TopSon F3-1" collectors = 2 expansion joints For 4 "TopSon F3-1" collectors = 6 expansion joints			
	TopSon F3-1Q high performance solar collector, landscape format Absorber with highly selective coating, pan collector made from highly weather-resistant aluminium, 3.2 mm safety glass, hailstone impact tested with improved transparency. Mineral wool insulation 6 mm. Self-supporting casing. Collector weather and temperature-resistant even during stagnation. Gross collector area 2.3 m ²			
	Glazing bead silver	7701468	H20	655.00
	Glazing bead dark grey	7701473	H20	690.00
	Note: 2 expansion joints are required for each connection between the collectors to compensate for thermal expansion. For 2 "TopSon F3-1Q" collectors = 2 expansion joints For 4 "TopSon F3-1Q" collectors = 6 expansion joints			
	CFK-1 high performance solar collector Absorber with highly selective coating, pan collector made from highly weather-resistant aluminium 3 mm safety glass, hailstone impact tested. Mineral wool insulation 6 mm. Self-supporting casing. Collector weather and temperature-resistant even during stagnation. Gross collector area 2.3 m ²	7700778	H20	516.00
	Note: 2 expansion joints are required for each connection between the collectors to compensate for thermal expansion. For 2 "CFK-1" collectors = 2 expansion joints For 4 "CFK-1" collectors = 6 expansion joints			

Connection kit TopSon F3-1 / CFK-1 / TopSon F3-1Q

	Description	Art. no.	DG	€
	Compensator for collector fitting Note: 2 expansion joints are required for each connection between the collectors. For 2 collectors = 2 expansion joints For 4 collectors = 6 expansion joints	2000030	H21	14.00
	Sealing plug 1 set = 2 pcs	2483744	H21	7.20
	Connection kit for one collector array For rooftop installation and roof integration Consisting of: 2 special cast fittings 3/4", 2 sealing plugs	2482410	H21	43.00
	FLEXIBLE CONNECTION KIT Matches connection kit „TopSon F3-1“ / CFK-1 for easy, flexible roof outlet Consisting of: 2 flexible stainless steel hoses DN2, thermal insulation resistant to temperature, UV and weather. Length: approx. 1 mm, connection G3/4" female thread and G3/4" male thread incl. gaskets.	2482381	H21	94.00
	MOUNTING KEY SET FOR FLAT-PLATE COLLECTORS For easier lock nut resistance to the collector screw fitting.	7701675	H21	costl

Rooftop installation kit

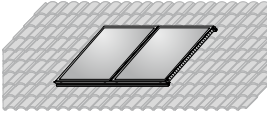
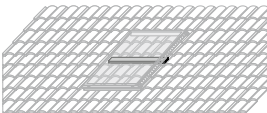
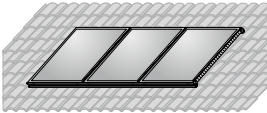
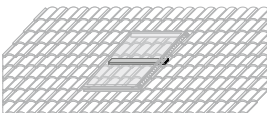
AluPlus rooftop mounting sets for collectors Topson F3-1 / CFK-1 / F3-1Q

Note:

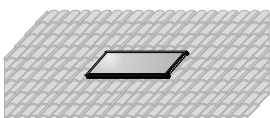


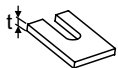
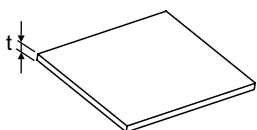
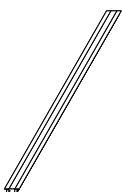
Rooftop mounting sets are suitable for building heights up to 25m. Please note the roof edge area during installation. This is calculated from the building dimensions and is usually 1m to 1.5m. If the rafter spacing is large, components may remain that you no longer need for installation.

The application limits of the mounting set can be checked on the following pages.

An individual design of the mounting system is possible on www.wolf.eu/solar-conf.

	Description	Art. no.	DG	€
	ALUPLUS ROOFTOP INSTALLATION KIT (PORTRAIT FORMAT) for two Topson F3-1 / CFK-1 collectors Consisting of: 4 mounting rails, 2 collector rails (length 2m) and 8 hooks Application range: Rafter spacing of 68-80 cm			
	Interlocking tile roofing	7701670	H21	578.00
	Slate roofing	7701598	H21	535.00
	Beaver Covering	7701592	H21	875.00
	Note: Wood screws only for plain-tailed hooks Set included!			
	ALUPLUS SNOW LOAD EXTENSION (PORTRAIT FORMAT) for two TopSon F3-1 / CFK-1 collectors Increases the application limits of the mounting system. AluPlus snow load rails (length 2m) and 4 hooks. Range of application: Rafter spacing of 68-80cm.			
	Interlocking tile roofing	7701672	H21	219.00
	Slate roofing	7701602	H21	157.00
	Beaver Covering	7701596	H21	327.00
	Note: Wood screws only for plain-tailed hooks Set included!			
	ALUPLUS ROOFTOP INSTALLATION KIT (PORTRAIT FORMAT) for three TopSon F3-1 / CFK-1 collectors Consisting of: 5 mounting rails, 2 collector rails (length 3m) and 10 hooks Application range: Rafter spacing of 68-80 cm			
	Interlocking tile roofing	7701671	H21	724.00
	Slate roofing	7701599	H21	691.00
	Slate roofing	7701593	H21	1122.00
	Note: Wood screws only for plain-tailed hooks Set included!			
	ALUPLUS SNOW LOAD EXTENSION (PORTRAIT FORMAT) for three TopSon F3-1 / CFK-1 collectors increases the application limits of the mounting system. AluPlus snow load rails (length 3m) and 5 hooks. Range of application: Rafter spacing of 68-80cm.			
	Interlocking tile roofing	7701673	H21	276.00
	Slate roofing	7701603	H21	210.00
	Beaver Covering	7701597	H21	438.00
	Note: Wood screws only for plain-tailed hooks Set included!			

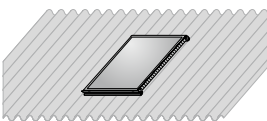
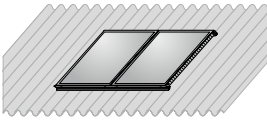
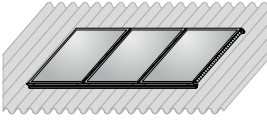
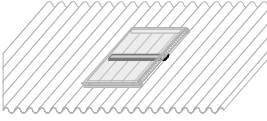
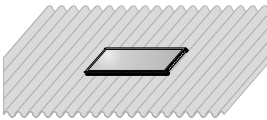
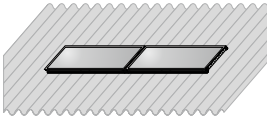
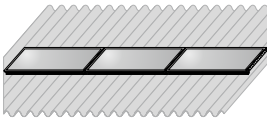
Rooftop installation kit

	Description	Art. no.	DG	€
	AluPlus snow load extension (portrait format format) For TopSon F3-1 / CFK-1 collectors Increases the application limits of the mounting system. Application range: Rafter spacing of 68-80cm.			
	Interlocking tile roofing	7701674	H21	375.00
	Slate roofing	7701601	H21	371.00
	Beaver Covering	7701600	H21	632.00
	Note: Wood screws only for plain-tailed hooks Set included!			
	ALUPLUS COLLECTOR RAIL CONNECTOR KIT Consisting of: 2 rail connectors and 6 drilling screws Kits can be combined with the collector rail connectors. In this case, you may find there are components left over which are not needed for installation.	2484922	H21	16.30
	AluPlus wood screw set For fastening the roof hooks to the rafter Set of 50 pieces			
	811 × 287 mm	2484997	H21	70.00
	811 × 608mm (2 pieces)	2485016	H21	95.00
	811 × 608mm (4 pieces)	2485017	H21	26.20
	AluPlus shim kit Aluminium plate 40 × 50mm to compensate for roof unevenness consisting of: 10 pieces with t=2mm 10 pieces with t=5mm 10 pieces hammer head screws M8×40	2484974	H21	31.90
	AluPlus rafter shim kit wooden disc 80 × 80mm for height compensation for batten heights > 30mm or brick types with high rebate consisting of: 10 pieces with t=5mm 10 pieces with t=10mm 10 pieces with t=15mm	2484996	H21	25.50
	Collector intermediate plate For two „TopSon F3-1“ / CFK-1 collectors For covering the space between two collectors for rooftop installation in portrait format.			
	712 × 712 × 367mm	2482459	H21	61.00
	712 × 712 × 367mm	2444452	H21	64.00


Notes

Notes

Rooftop installation kit for corrugated/sheet metal roof

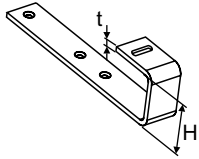
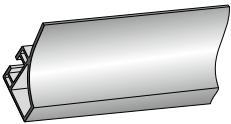
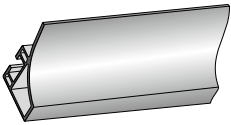
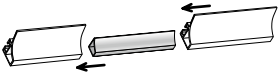
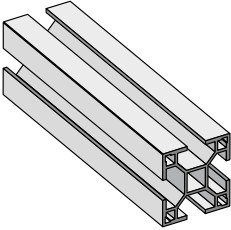
	Description	Art. no.	DG	€
	AluPlus rooftop installation kit (portrait) For one „TopSon F3-1“ / CFK-1 collector For mounting the collectors on the corrugated/sheet metal roof. Consisting of: 2 AluPlus mounting rails (length 1 m) and 4 double-ended screws	2484141	H21	206.00
	AluPlus rooftop installation kit (portrait) For two „TopSon F3-1“ / CFK-1 collectors For mounting the collectors on the corrugated/sheet metal roof. Consisting of: 2 AluPlus mounting rails (length 2 m) and 6 double-ended screws	2484142	H21	333.00
	AluPlus rooftop installation kit (portrait) For three „TopSon F3-1“ / CFK-1 collectors For mounting the collectors on the corrugated/sheet metal roof. Consisting of: 2 AluPlus mounting rails (length 3 m) and 8 double-ended screws	2484143	H21	510.00
	AluPlus snow load extension (portrait) For „TopSon F3-1“ / CFK-1 collectors Required for a surface load of 2.4 kN/m ² or more; for use up to a maximum of 4 kN/m ² . 612 × 612mm (2 pieces) 612 × 612mm (4 pieces) 611 × 955 × 712mm	2484153 2484154 2484155	H21 H21 H21	129.00 215.00 271.00
	AluPlus rooftop installation kit (landscape format) For one „TopSon F3-1Q“ collector For mounting the collectors on the corrugated/sheet metal roof. Consisting of: 2 AluPlus mounting rails (length 2 m) and 4 double-ended screws	2484144	H21	238.00
	AluPlus rooftop installation kit (landscape format) For two „TopSon F3-1Q“ collectors For mounting the collectors on the corrugated/sheet metal roof. Consisting of: 4 AluPlus mounting rails (length 2 m), 6 double-ended screws and 2 AluPlus mounting rail connectors	2484145	H21	444.00
	AluPlus rooftop installation kit (landscape format) For three „TopSon F3-1Q“ collectors For mounting the collectors on the corrugated/sheet metal roof. Consisting of: 6 AluPlus mounting rails (length 2 m), 8 double-ended screws and 4 AluPlus mounting rail connectors	2484146	H21	645.00

Rooftop installation kit for corrugated/sheet metal roof

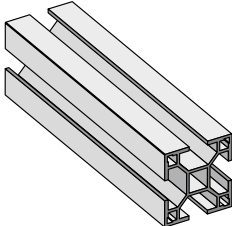
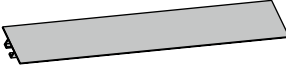
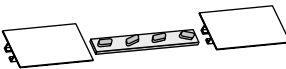

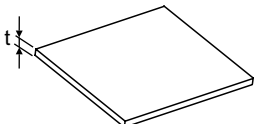

	Description	Art. no.	DG	€
	AluPlus mounting rail connector kit „TopSon F3-1“ / CFK-1 / „TopSon F3-1Q“ For connecting two AluPlus rooftop installation kits. Consisting of: 2 AluPlus mounting rail connectors	2483481	H21	40.00

rooftop installation AluPlus

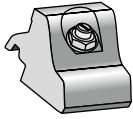
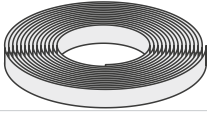

	Description	Art. no.	DG	€
	AluPlus hook kit for interlocking tiles (6 mm) Consisting of: Hooks (t=6 mm) for interlocking tile roof, hammerhead screws with nuts t = 6mm h = 45mm H = 130mm			
	712 × 915 × 411mm	2484963	H21	23.00
	712 × 915 × 411mm	2484964	H21	87.00
	795 × 303 mm (1 piece), 811 × 608 mm (3 pieces)	2484965	H21	123.00
	795 × 303 mm (2 pieces), 811 × 608 mm (2 pieces)	2484966	H21	198.00
	AluPlus hook kit for interlocking tiles (8 mm) Consisting of: Hooks (t=8 mm) for interlocking tile roof, hammerhead screws with nuts t = 8mm h = 45mm H = 130mm			
	795 × 303mm (4 pieces)	2484967	H21	27.00
	795 × 333mm	2484968	H21	145.00
	795 × 333mm	2484969	H21	175.00
	795 × 333mm	2485500	H21	209.00
	795 × 333mm	2484970	H21	235.00
	ALUPLUS INTERLOCKING TILE HOOK SET FOR LOW BATTENS consisting of: Hook [t=8mm] for interlocking roofing tiles, hammer head screws with nuts t = 8mm h = 35mm H = 130mm			
	842 × 406mm	2485513	H21	66.00
	842 × 406mm	2485514	H21	128.00
	AluPlus hook kit for plain tiles Consisting of: Powder-coated sheet metal replacement tile (RAL 21, brick red), for plain tile roof 180×380, reinforcing rails, woodscrews and hammer-head screws with nuts			
	795 × 333mm	2484999	H21	81.00
	795 × 333mm	2485000	H21	253.00
	799 × 307mm (1 piece), 815 × 612mm (3 pieces)	2485001	H21	380.00

	Description	Art. no.	DG	€
	AluPlus hook kit for slate Consisting of: Hooks for slate roof, hammerhead screws with nuts t= 6 mm H= 70mm			
	799 × 307mm (2 pieces), 815 × 612mm (2 pieces)	2485003	H21	23.00
	799 × 307 mm (4 pieces)	2485004	H21	83.00
	6-pcs set	2485005	H21	119.00
	AluPlus collector rail kit (installation: portrait format) For TopSon F3-1/CFK-1 Consisting of: 2 collector rails, threaded pins, nuts and bolts			
	for 1 collector	2484950	H21	72.00
	for 2 collector	2484951	H21	130.00
	for 2 collector	2484952	H21	195.00
	AluPlus collector rail kit (installation: landscape format) For TopSon F3-1Q Consisting of: 2 collector rails, threaded pins, nuts and bolts	2484953	H21	122.00
	For 1 collector			
	ALUPLUS COLLECTOR RAIL CONNECTOR KIT Consisting of: 2 rail connectors and 6 drilling screws Kits can be combined with the collector rail connectors. In this case, you may find there are components left over which are not needed for installation.	2484922	H21	16.30
	AluPlus mounting rails (installation: portrait format) For TopSon F3-1/CFK-1 Consisting of: Mounting rail(s), cross connectors and black end caps			
	1-pcs set	2484954	H21	101.00
	2-pcs set	2484955	H21	126.00
	3-pcs set	2484956	H21	183.00
	4-pcs set	2485501	H21	239.00
	5-pcs set	2484957	H21	294.00


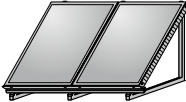
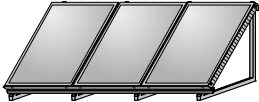
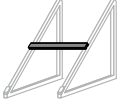


rooftop installation AluPlus

	Description	Art. no.	DG	€
	AluPlus mounting rail (installation: landscape format) For TopSon F3-1Q Consisting of: Mounting rail(s), cross connectors and black end caps			
	1-pcs set	2485012	H21	48.00
	3-pcs set	2484958	H21	130.00
	5-pcs set	2484959	H21	209.00
	AluPlus snow rail extension kit (installation in portrait format) For TopSon F3-1/CFK-1 For rooftop installation in areas with high snow loads, consisting of snow rail and cross connectors			
	for 1 collector	2484960	H21	33.90
	for 2 collector	2484961	H21	74.00
	for 3 collector	2484962	H21	104.00
	AluPlus snow rail connector kit (installation in portrait format) For TopSon F3-1/CFK-1 For connecting two snow rails Consisting of: Rail joiners and 4 hammerhead screws with nuts	2484923	H21	9.30
	AluPlus shim kit Aluminium plate 40 × 50mm to compensate for roof unevenness consisting of: 10 pieces with t=2mm 10 pieces with t=5mm 10 pieces hammer head screws M8×40	2484974	H21	31.90
	AluPlus rafter shim kit wooden disc 80 × 80mm for height compensation for batten heights > 30mm or brick types with high rebate consisting of: 10 pieces with t=5mm 10 pieces with t=10mm 10 pieces with t=15mm	2484996	H21	25.50
	AluPlus wood screw set For fastening the roof hooks to the rafter Set of 50 pieces 811 × 287 mm 811 × 608mm (2 pieces) 811 × 608mm (4 pieces)	2484997 2485016 2485017	H21 H21 H21	70.00 95.00 26.20



rooftop installation AluPlus

	Description	Art. no.	DG	€
	AluPlus cross connector kit For connecting the mounting rails to connector rails and snow rails Consisting of: 5 cross connectors with hammerhead screw, washer and nut	2485021	H21	44.00
	Compriband For additional sealing of roof tiles 8 m roll, black, 15 × 4-9 mm	3738244	H21	34.80
	AluPlus M8 hammerhead screw kit – 25 pcs Consisting of: hammerhead screw M8×2 and nut with locking teeth			
	M8×20	2484998	H21	17.40
	M10×30	2485020	H21	20.60

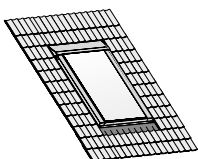
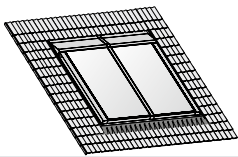
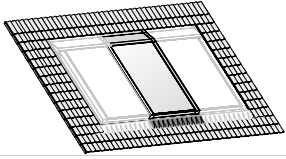
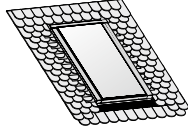
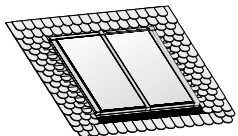
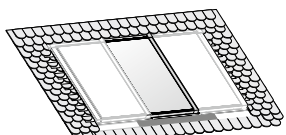
Triangle stands for horizontal surfaces or wall mounting

	Description	Art. no.	DG	€
	AluFlex-U support stands (portrait format) For one „TopSon F3-1“ / CFK-1 collector For mounting the collectors on horizontal surfaces (flexibly adjustable 20°, 30°, 45°) or wall mounting. Consisting of: 2 AluPlus mounting rails (length 1 m) and 2 AluFlex-U support stands	2484082	H21	392.00
	AluFlex-U support stands (portrait format) For one „TopSon F3-1“ / CFK-1 collector For mounting the collectors on horizontal surfaces (flexibly adjustable 20°, 30°, 45°) or wall mounting. Consisting of: 2 AluPlus mounting rails (length 2m) and 2 AluFlex-U support stands	2484083	H21	625.00
	AluFlex-U support stands (portrait format) For three „TopSon F3-1“ / CFK-1 collectors For mounting the collectors on horizontal surfaces (flexibly adjustable 20°, 30°, 45°) or wall mounting. Consisting of: 2 AluPlus mounting rails (length 3 m) and 4 AluFlex-U support stands	2484084	H21	915.00
	AluPlus snow load extension (portrait format) For „TopSon F3-1“ / CFK-1 collectors Required for a surface load of 2.4 kN/m² or more; for use up to a maximum of 4 kN/m².			
	1 collector: AluPlus snow rail (length 1 m)	2484277	H21	28.20
	2 collectors: AluPlus snow rail (length 2 m)	2484278	H21	37.70
	3 collectors consisting of: AluPlus snow rail (length 3 m)	2484279	H21	69.00
	AluFlex-U support stands (landscape format) For one „TopSon F3-1Q“ collector For mounting the collectors on horizontal surfaces (flexibly adjustable 20°, 30°, 45°) or wall mounting. Consisting of: 2 AluPlus mounting rails (length 2 m) and 2 AluFlex-U support stands	2484085	H21	325.00
	AluFlex-U support stands (landscape format) For two „TopSon F3-1Q“ collectors For mounting the collectors on horizontal surfaces (flexibly adjustable 20°, 30°, 45°) or wall mounting. Consisting of: 4 AluPlus mounting rails (length 2 m) and 3 AluFlex-U support stands and one AluPlus mounting rail connector set	2484086	H21	585.00

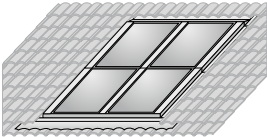
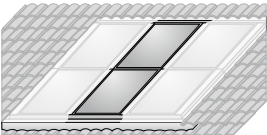
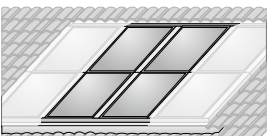

Triangle stands for horizontal surfaces or wall mounting

	Description	Art. no.	DG	€
	<p>AluFlex-U support stands (landscape format) For three „TopSon F3-1Q“ collectors For mounting the collectors on horizontal surfaces (flexibly adjustable 20°, 30°, 45°) or wall mounting.</p> <p>Consisting of: 6 AluPlus mounting rails (length 2 m), 4 AluFlex-U support stands and 2 AluPlus mounting rail connector sets</p>	2484087	H21	865.00
	<p>AluPlus mounting rail connector kit „TopSon F3-1“ / CFK-1 / „TopSon F3-1Q“ For connecting two AluPlus rooftop installation kits.</p> <p>Consisting of: 2 AluPlus mounting rail connectors</p>	2483481	H21	40.00


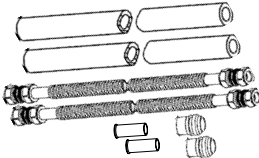

Rooftop installation kit, single-row

	Description	Art. no.	DG	€
	„INTERLOCKING TILE“ ROOF INTEGRATION KIT for one TopSon F3-1 and CFK-1 Collector Roof integration frame for architecturally attractive roof integration of collectors into the interlocking tile roof, with coated aluminium sheet in dark grey. For roof pitches of 20° to 60°.	2485044	H21	555.00
	„INTERLOCKING TILE“ ROOF INTEGRATION KIT for two TopSon F3-1 and CFK-1 Collectors Roof integration frame for architecturally attractive roof integration of collectors into the interlocking tile roof, with coated aluminium sheet in dark grey. For roof pitches of 20° to 60°.	2485043	H21	815.00
	„INTERLOCKING TILE“ ROOF INTEGRATION KIT for extension by one TopSon F3-1 and CFK-1 Collector Roof integration frame for architecturally attractive roof integration of collectors into the interlocking tile roofing, with coated aluminium sheet in dark grey. For roof pitches of 20° to 60°.	2485045	H21	456.00
	„SLATE/PLAIN TILE“ ROOF INTEGRATION KIT for one TopSon F3-1 und CFK-1 Collector Roof integration frame for architecturally attractive roof integration of collectors into the slate/plain tile roof, with coated aluminium sheet in dark grey. For roof pitches of 15° to 60°.	2485123	H21	660.00
	„SLATE/PLAIN TILE“ ROOF INTEGRATION KIT for two TopSon F3-1 and CFK-1 Collectors Roof integration frame for architecturally attractive roof integration of collectors into the slate/plain tile roof, with coated aluminium sheet in dark grey. For roof pitches of 15° to 60°.	2485124	H21	1000.00
	„SLATE/PLAIN TILE“ ROOF INTEGRATION KIT for extension by one TopSon F3-1 and CFK-1 Collector Roof integration frame for architecturally attractive roof integration of collectors into the slate/plain tile roof, with coated aluminium sheet in dark grey. For roof pitches of 15° to 60°.	2485125	H21	478.00

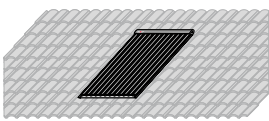
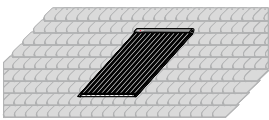


Roof integration kit, multi-row, for interlocking tiles

	Description	Art. no.	DG	€
	Roof integration kit, double row "interlocking tiles" for four TopSon F3-1 Collectors with dark grey glazing bead Standard installation kit for architecturally attractive roof integration of the collectors into the interlocking tile roofing, all-round roofing frame of dark grey aluminium sheet, for roof pitches from 20° to 60°.	2484020	H21	1220.00
	Single extension kit for roof integration kit, double row Interlocking tile roofing For two "TopSon F3-1" collectors with dark grey glazing bead (2 x vertical, 1 x horizontal)	2484023	H21	595.00
	Double extension kit for roof integration kit, double row Interlocking tile roofing For four "TopSon F3-1" collectors with dark grey glazing bead (2 x vertical, 2 x horizontal)	2484024	H21	885.00
	Flexible connection kit for roof integration, double row Consisting of: Stainless steel hoses DN16 and DN18, thermal insulation resistant to temperature, UV and weather, suitable connecting fittings for joining the collectors with corrugated pipes and the associated sealing plugs.	2484101	H21	239.00

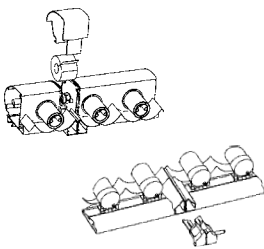
High-performance vacuum tube collector CRK-12

	Description	Art. no.	DG	€
	CRK-12 high performance vacuum tube collector High performance vacuum tube collector with direct flow and protected, highly selective layer in high vacuum with permanently high efficiency and no degradation. Optimum utilisation of sunlight through efficient CPC mirror. Can be installed at angles between 15° and 75°, 12 tubes incl. header, direct flow.	2484854	H20	1445.00
	CRK-12 connection kit Consisting of: 2 angle fittings 90°, 2 reducer ring sets 15 mm to 12 mm, 2 support sleeves 15 mm and 2 support sleeves 12 mm.	2483565	H21	63.00
	Flexible CRK-12 connection kit Consisting of: 2 thermally insulated corrugated hoses (length 1 m), 4 straight threaded connections, 2 reducer ring sets 15 mm to 12 mm, 2 support sleeves 15 mm and 2 support sleeves 12 mm.	2483566	H21	245.00
	CRK-12 shut-off valve for shutting off parallel collector circuits to ensure proper flushing and venting consisting of: Shut-off valve (temperature resistant up to 400°C) and 2 cutting rings 15mm with union nuts.	2483584	H21	303.00



rooftop installation kit CRK-12

	Description	Art. no.	DG	€
	Standard rooftop installation kit For one CRK-12 collector on interlocking tile roofing Consisting of: Collector rail set (standard), 4 roof hooks for interlocking tiles and installation material	7701610	H21	496.00
	Extended rooftop installation kit For one additional CRK-12 collector on interlocking tile roofing Consisting of: Collector rail set (extension), 2 roof hooks for interlocking tiles and installation material Note: Up to 6 collectors can be installed in a row.	7701611	H21	421.00
	Standard rooftop installation kit For one CRK-12 collector on slate roofing Consisting of: Collector rail set (standard), 4 roof hooks for slate and installation material	7701612	H21	600.00
	Extended rooftop installation kit For one additional CRK-12 collector on slate roofing Consisting of: Collector rail set (extension), 2 roof hooks for slate and installation material Note: Up to 6 collectors can be installed in a row.	7701613	H21	473.00
	Standard rooftop installation kit For one CRK-12 collector on corrugated/sheet metal roofing Consisting of: Collector rail set (standard), 4 double-ended screws and installation material	7701614	H21	456.00
	Extended rooftop installation kit For one additional CRK-12 collector on corrugated/sheet metal roofing Consisting of: Collector rail set (extension), 2 double-ended screws and installation material Note: Up to 6 collectors can be installed in a row.	7701615	H21	401.00
	MOUNTING SCAFFOLD FOR A COLLECTOR CRK-12 for mounting the collectors on horizontal surfaces (flexibly adjustable 30°, 45° or 55°) or wall mounting (flexibly adjustable 45° or 60°) consisting of: 2x folding scaffold (aluminium) 4 x dowel screws (stainless steel) for concrete slabs	2486212	H21	349.00







rooftop installation kit CRK-12

	Description	Art. no.	DG	€
	<p>CRK-12 connection kit For creating a visual connection between two CRK-12 collectors</p> <p>Consisting of: 1 cover panel, 1 thermal insulation, 1 connecting plug and installation material.</p>	2483567	H21	85.00


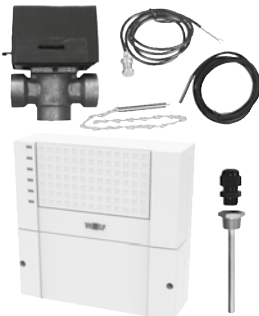



Control systems for solar heating

	Description	Art. no.	DG	€
	<p>SM1-2 solar module Extension module for controlling a solar system with up to 2 storage tanks and 2 collector arrays</p> <ul style="list-style-type: none"> • Simple configuration of the controller by selection of pre-defined plant variants • In combination with Wolf heaters, higher energy savings due to intelligent Storage tank recharging, i.e. blocking of storage tank recharging with a sufficiently high solar yield • Heat quantity measurement with external heat quantity meter for all configurations • Function control for volume flow and gravity brake • Selection of the storage mode (priority, secondary and parallel operation) • Display of setpoints and actual values in the adjustment module BM-2 eBus interface with automatic energy management • Rast 5 Connection technology • Immersion sensor PT1000 For collector • Immersion sensor 5K NTC for storage tank • Storage immersion sleeve 1/2" with PG strain relief • Collector immersion sleeve 3/4" with PG strain relief and seal 	2745867	H41	305.00
	<p>SM1-2 solar module controller insert for installation in solar pump group as above, but additionally already wired</p> <ul style="list-style-type: none"> • Mains cable with safety plug (length 2m) • Connection cable for collector temperature sensor (length 2m) • 2 thermowells • Immersion sensor PT1000 for collector • 1 immersion sensor 5K NTC for memory (wired) 	2745936	H41	353.00

Control systems for solar heating






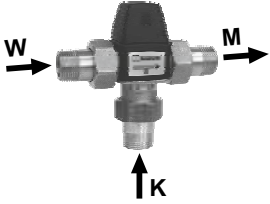


	Description	Art. no.	DG	€
	SM2-2 solar module Extension module for controlling a solar system with up to 2 storage tanks and 2 collector arrays <ul style="list-style-type: none"> • Simple configuration of the controller by selecting predefined system variants • In conjunction with Wolf heaters higher energy savings through intelligent storage tank recharging, i.e. blocking of storage tank recharging if solar yield is sufficiently high • Heat quantity measurement with external heat quantity meter for all configurations • Function control for volume flow and gravity brake • Selection of the storage mode (priority, subordinate and parallel operation) • Display of set and actual values in the BM-2 operating module • eBus interface with automatic energy management • Rast 5 Connection technology • Immersion sensor PT1000 For collector • Immersion sensor 5K NTC for storage tank • Storage immersion sleeve 1/2" with PG strain relief • Collector immersion sleeve 3/4" with PG strain relief and seal 	2745869	H41	500.00
	BM-2 Solar programming unit <ul style="list-style-type: none"> • Can be used for SM1-2 and SM2-2 • 3.5" colour display • Easy menu navigation through plain text display • Graphic display of system diagrams, temperature curves and solar yields • Operation using rotary selector with pushbutton function • eBus interface 	2745926	H41	308.00
	Collector temperature sensor (PT1000) Loose, for all solar control units	2741078	H41	49.00
	Temperature sensor (NTC 5k, Ø 6 mm) loose Can be used as a cylinder, boiler, central unit and supply air temperature sensor	8852829	H41	67.00
	Cylinder sensor well 1/2" With cable gland	2425077	H41	21.70
	Collector sensor well 3/4" With cable gland and gasket	2425078	H41	42.00







Control systems for solar heating

	Description	Art. no.	DG	€
	Return temperature raising facility kit For MM/MM-2 mixer module, KM/KM-2 cascade module and SM2-2 solar module for solar central heating backup Consisting of: 3-way diverter valve Incl. 1 return contact sensor (NTC 5k) 1 temperature sensor (NTC 5k) 1 sensor well for temperature sensor	2744352	H41	244.00
	SRTA return temperature raising kit for solar heating support consisting of: 3-way switching valve, solar module SM1-2 Contact sensor 5K NTC for return flow boost Immersion sensor PT1000 for return flow increase Storage immersion sleeve 1/2" with PG strain relief	2745925	H41	540.00
	Heat metering kit For measuring the yield of SM1-2 and SM2-2 solar modules Consisting of: Flow meter, return contact sensor (NTC 5k), 2 union connections with male thread 1/2"			
	Q _{Nenn} /max 1,5/3 m³/h	2744392	H41	204.00
	Q _{nom} /max. 2.5/5 m³/h	2744610	H41	250.00
	Return contact sensor (NTC 5k) For SM1-2 and SM2-2 solar modules For measuring the yield using Δt and the flow rate set in the control unit.	2792022	H41	57.00
	Solar pump assembly 10 Consisting of: High efficiency pump (EEI < 0.20), variably adjustable fully wired with cable Ball valves with thermometer in flow and return Gravity brakes in flow and return 6 bar safety valve, 0-10 bar pressure gauge Drain and fill valve, air separator and manual air vent valve Wall retainer and installation material Dimensions HxWxD: 375 × 400 (250) x 190mm Well designed EPP thermal insulation shells, resistant up to 130°C Solar pump assembly 10 Suitable for up to max. 10 solar collector at 50 l flow rate per hour and collector (subject to system sizing). Flow rate control 2 to 15 l/min. Connection: 18 mm locking ring fitting	2484991	H21	695.00
	Note: SM1-2 and SM2-2 solar modules can be integrated into pump assembly			

	Description	Art. no.	DG	€
	Solar connection kit for solar pump group 10 for direct mounting on the Hot water solar cylinder SEM-2	7701167	H46	19.60
	Solar pump assembly 20 consisting of: High-efficiency pump (EEI < 0.20), infinitely variable wired with cable ready to plug in Ball valves with thermometer in flow and return Gravity brakes in forward and return flow Safety valve 6 bar, pressure gauge 0-10 bar Filling and draining tap, air separator and manual air vent, Wall bracket and mounting material Dimensions HxWxD: 375 × 400 (250) x 190mm Design heat insulation shells made of EPP, resistant up to 130° C Solar pump group 20 Suitable up to max. 20 solar collectors at 50 ltr. flow per hour and collector (depending on the system dimensioning). Flow rate regulation 7 to 30 l/min. Connection: 22mm compression fitting Note: SM1-2 and SM2-2 solar modules can be integrated into pump assembly	2484992	H21	715.00
	Solar pump group extension for the connection of a second heat consumer consisting of: High-efficiency pump (EEI < 0.20), infinitely adjustable with cable wired ready to plug in Ball valve with thermometer, gravity brake Wall bracket and mounting material Dimensions HxWxD: 375×182×210mm Thermal insulation made of EPP, resistant up to 130° C Solar pump group 10E 2486312 Solar pump group 20E Suitable for up to max. 20 solar collectors at 50 ltr. flow per hour and collector (depending on the system dimensioning). Flow rate regulation 7 to 30 l/min. Connection: 22mm compression fitting 2486313	2486312 2486313	H21 H21	493.00 575.00

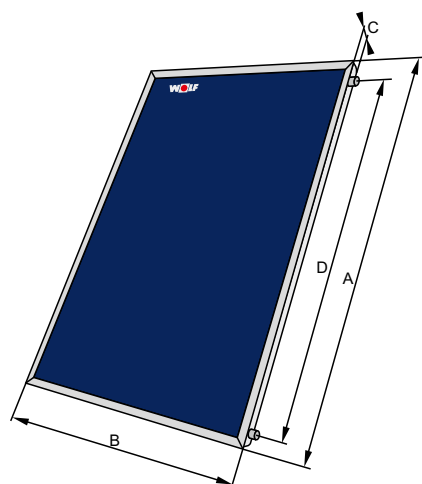
Accessories

	Description	Art. no.	DG	€
	Brine expansion vessels With fixing materials for wall mounting up to 50 l; 2.5 bar pre-charge pressure			
	12 ltrs.	2444210	H21	87.00
	18 ltrs.	2444211	H21	107.00
	25 Ltr.	2444212	H21	130.00
	35 Ltr.	2483075	H21	164.00
	50 Ltr.	2444223	H21	238.00
	80 Ltr.	2483608	H21	392.00
	100 l	2482818	H21	615.00
	150 Ltr.	2484096	H21	1010.00
	200 Ltr.	2484097	H21	1180.00
	Solar pre-cooling vessels To protect the solar expansion vessel from excessive temperatures.			
	18 Ltr.	2484098	H21	142.00
	35 Ltr.	2484099	H21	186.00
	50 Ltr.	2484100	H21	246.00
	Connection kit for expansion vessel For solar and brine up to 25 l Consisting of: Flexible hose (900mm long), cap valve, wall clip	2483076	H21	74.00
	Cap valve ¾" for expansion vessels up to 50 l 1" for expansion vessels from 80 l	2400445 2400439	H40 H40	42.00 128.00
	Air vent trap 0,15 l, thermally insulated Connection Ø 22mm, copper	2444050	H21	82.00
	Thermostatic water mixer With anti-scalding protection incl. threaded sleeves ¾"	2744370	H46	140.00
	Zone valve, 3-way diverter valve, solar DN25 1", 230V	2483800	H21	180.00
	Unistar 2000A solar fill & flush pump Dry self-priming impeller pump with inlet filter of clear glass for filling solar thermal systems with heat transfer medium; intake, filling and flushing hose with ¾" union nut, plastic container with lid, max. 30l/min, max. 5 bar, 230V, 50Hz, 3.2 A	2071408	H21	935.00

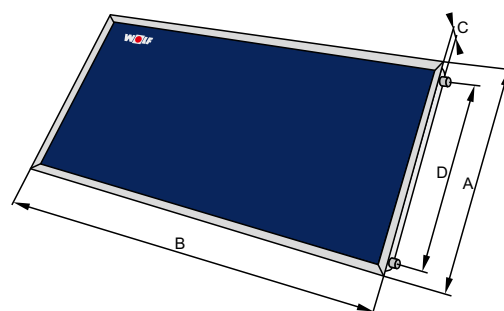
	Description	Art. no.	DG	€
	Filling pump For filling solar thermal systems with heat transfer medium, suitable for wall mounting	2015200	H21	220.00
	Check valve 3/4"	2444099	H21	55.00
	Solar flow regulation for installation in the return DN20 2 - 12 l/min (up to 8 collectors) DN20 8 - 30 l/min (from 6 to 20 collectors)	2483735 2483736	H21 H21	258.00 253.00
	ANRO heat transfer medium For „TopSon F3-1“ / „TopSon F3-1Q“ / CFK-1 high performance solar collectors Brine liquid (fluid), physiologically harmless, biodegradable For the solar circuit with high heat absorption capacity, frost protection and effective anti-corrosion materials.			
	Content 10 kg	3501521	H21	69.00
	Content 20 kg	3501520	H21	132.00
	Content 30 kg	3501522	H21	179.00
	ANRO LS heat transfer medium For CRK-12 high performance vacuum tube collector Brine liquid (fluid), physiologically harmless, biodegradable For the solar circuit with high heat absorption capacity, frost protection and effective anti-corrosion materials.			
	Content 10 kg	3501556	H21	71.00
	Content 20 kg	3501557	H21	143.00
	Measuring spindle For checking the frost protection of the solar circuit (for ANRO and ANRO LS)	2744202	H21	37.70

Technical data

High performance solar collector
TopSon F3-1
TopSon F3-1Q
CFK-1



TopSon F3-1 / CFK-1



TopSon F3-1Q

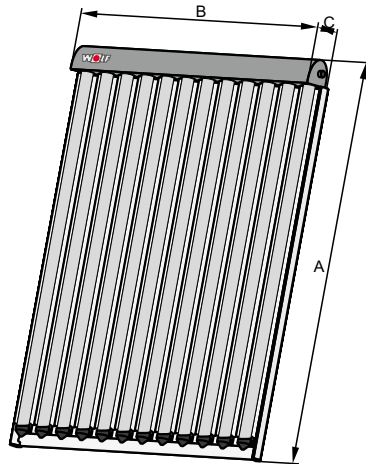
TYPE		TopSon F3-1	TopSon F3-1Q	CFK-1
Dimensions / Weights				
Length	A mm	2099	1099	2099
Width	B mm	1099	2099	1099
Depth	C mm	110	110	110
Flow/Return	D mm	1900	1900	1900
Weight (empty)	kg	40	41	36
Technical data				
Connections (flat sealing with union nut)	G	3/4"	3/4"	3/4"
Installation angle		15° bis 75°	15° bis 75°	15° bis 75°
gross area	m ²	2,3	2,3	2,3
optical efficiency eta 0hem*	%	70,4	70,7	70,8
Heat loss coefficient a1 *	W/(m ² K)	3,037	3,152	3,380
Heat loss coefficient a2 *	W/(m ² K ²)	0,014	0,010	0,016
Irradiation angle correction factor K50° *	%	95,0	94,0	95,0
Heat capacity C *	kJ/(m ² K)	5,85	5,88	7,78
absorber area	m ²	2,0	2,0	2,0
optical efficiency eta 0hem**	%	81,0	81,4	81,3
heat loss coefficient a1 **	W/(m ² K)	3,492	3,630	3,888
Heat loss coefficient a2 **	W/(m ² K ²)	0,016	0,012	0,019
Irradiation angle correction factor K50° **	%	95,0	94,0	95,0
heat capacity C **	kJ/(m ² K)	5,85	5,88	7,78
maximum standstill temperature	°C	194	189	196
max. operating overpressure	bar	10	10	10
filling capacity	Ltr.	1,7	1,9	1,1
recommended flow rate per collector	Ltr./h	30 - 90	30 - 90	90
Heat transfer medium		ANRO (undiluted)	ANRO (undiluted)	ANRO (undiluted)
Solar-Keymark Register no.		011-7S260F	011-7S2439F	011-7S591F

* Values according to DIN EN ISO 9806 related to gross area

** Values according to DIN EN ISO 9806 related to absorber area

Technical data

High performance vacuum tube collector CRK-12



TYPE	CRK	12
Dimensions / Weights		
Connections (compression fitting MS)	mm	15
Installation angle		15° bis 75°
Length	mm	1640
Width	mm	1390
Depth	mm	100
Weight (empty)	kg	32,7
Technical data		
Absorption (energy absorption)		> 93,5
Emission		≤ 6
optical efficiency *		64,2
Heat loss coefficient a1 *		0,885
heat loss coefficient a2 *		0,001
maximum standstill temperature		272
irradiation angle correction factor K * longitudinal / transversal		89 / 99
effective heat capacity *		8,416
max. operating overpressure		10
pressure drop (at 15 ltr./h x m ² and 40°C)		5
number of vacuum tubes per collector	Stück	12
glass tube diameter	mm	47 / 33 / 1,6
gross area	m ²	2,29
Aperture area	m ²	2,0
Filling capacity	Ltr.	1,74
Heat transfer medium		ANRO (undiluted)
Solar Keymark Register No.		011-7S321 R

* Values according to EN 12975 related to aperture area

Notes

WOLF

Heat pumps

Air/Water		Page 220
CHA-Monoblock	Air/Water-Heat pump	Page 220
CHT-Monoblock/200(-35)	Building services center CHA-Monoblock + Storage package + BM-2 + Residential ventilation	Page 222
CHT-MONOBLOCK/300(-50(S))	Building services center CHA-Monoblock + Storage package + BM-2 + Residential ventilation	Page 223
CHC-MONOBLOCK/200(-35)	Heat pumpncenter CHA-Monoblock + Storage package + BM-2	Page 226
CHC-MONOBLOCK/300(-50(S))	Heat pumpncenter CHA-Monoblock + Storage package + BM-2	Page 227
BWL-1S	Air/Water-Heat pump in split design with indoor and outdoor unit	Page 228
BWL-1SB	Air/Water-Heat pump in split design with indoor and outdoor unit	Page 229
CHC-Split/200(-35)	Heat pumpncenter Heat pump BWL-1S + Storage package + BM-2	Page 332
CHC-SPLIT/300(-50(S))	Heat pumpncenter Heat pump BWL-1S + Storage package + BM-2	Page 333
Regulation/Control accessories		Page 334
BWL-1-I	Air/Water-Heat pump in monoblock design, indoor installation	Page 340
Sole/Water		Page 341
BWS-1	Sole/Water-Heat pump Indoor installation	Page 341
Water/Water		Page 342
BWW-1	Water/Water-Heat pump Indoor installation	Page 342
Regulation/Control accessories		Page 343
Hot Water		Page 346
SWP	Hot Water - Heat pump	Page 346
Accessories Heat pump		Page 347
Technical data		Page 368



CHA-Monoblock with indoor and outdoor module



DG | H30

TYPEE	CHA	07	10
Energy efficiency class			
Room heating low temperature	A+++ → D	A+++	A+++
Space heating medium temperature	A+++ → D	A++	A++
Seasonal space heating energy efficiency / heat rating at average climate conditions according to EU 811/2013			
s [35°C]* / Prated	%/kW	194 / 6	191 / 8
s [55°C]* / Prated	%/kW	148 / 6	141 / 8
Heating capacity / COP according to EN14511			
at A2/W35 nominal power	kW / -	5,2 / 4,5	5,8 / 4,7
at A7/W35 nominal power	kW / -	4,5 / 5,5	4,1 / 5,7
at A-7/W35 nominal power	kW / -	5,9 / 2,7	8,0 / 2,9
Power range according to EN14511	kW / -	5,9 / 2,7	8,0 / 2,9
at A2/W35		1,9 - 7,0	3,0 - 10
with A-7/W35		1,6 - 6,8	2,2 - 9,8
Width x height x depth outdoor unit		1286x79x562	1286x79x562
Width x height x depth indoor unit		440x790x340	440x790x340
Weight	kg	152/27	162/27
CHA	Art.-No.	9146862	9146863
	€	10950,00	13380,00

*in the composite label, an additional contribution of the temperature controller of up to 5% is possible.

- Modulating air-to-water heat pump in monoblock design incl. indoor module
- Standard heating and cooling operation (inverter technology) and hot water preparation
- Standard strong 9kW electric heating element
- Outdoor module:
 - Refrigerant of the future R290 (propane) for high flow temperatures of +70°C in pure heat pump operation
 - Extremely quiet operation: sound pressure level below 34dB(A) already at a distance of 3m
 - Robust EPP core (expanded polypropylene) for the toughest environmental conditions, optimum airflow and quiet operation
- Indoor module:
 - Heat meter, 3-way switching valve, water pressure sensor and safety valve already integrated
 - energy-saving operation through spread control of the integrated, speed-controlled high-efficiency pump
 - Slot for LAN / WLAN interface Link Home
 - Programmable input and output
 - Contacts for EVU control signal or Smart Grid
 - Simple optimisation of the use of your own electricity: can be integrated into intelligent energy management via plug & play using EEBUS
 - Note: Be sure to install sludge and magnetite separators.

Coordinated air/water heat pump centers CHT monobloc In 10 variations: Simple, Complete.



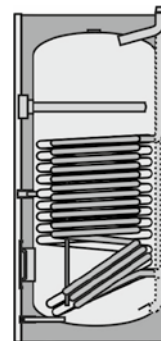
CHT-MONOBLOCK/200
CHT-MONOBLOCK/300

1. Basic unit with outdoor and indoor unit in 2 power levels incl. living room ventilation



CHA-07
CHA-10

2. HOT WATER STORAGE TANK IN 2 SIZES



180 Liter
oder
280 Liter

3. With or without Buffer tank



35 liters
(200 l WW)
Row storage tank

50 liters
(300 L WW)
In-line or
Separation tank

4. Always Included



BM-2 operating module



Expansion tank
MAG 24 L



CHT-Monoblock/200(-35) Home automation center CHA monoblock + storage package + BM-2 + living room ventilation



TYPEE	CHT	07/200	10/200
Space heating Low temperature*		A+++	A+++
Space heating medium temperature*		A++	A++
Energy efficiency class WW storage tank		B	B
Energy efficiency class buffer tank		A	A
Energy efficiency class CWL-T-300			
TYPEE of buffer tank	CHC	without	without
	CHC-35	Row memory	Row memory
Hot water storage tank capacity	l	180	180
Buffer storage tank capacity	l	34	34
Heat pump monobloc CHA		07/400V	10/400V
Dimensions			
Height	mm	2137	2137
Height	mm	2081	2081
Width	mm	1130	1130
Width	mm	1130	1130
Depth	mm	685	685
Depth	mm	751	751
Weights			
Hot water/buffer tank	kg	145/21	145/21
CHA outdoor unit/indoor unit	kg	152/27	162/27
Living space ventilation	kg	50	50
CHT-Monoblock 200	Art.-No.	9147360	9147365
	€	19105,00	21535,00
CHT-Monoblock 200-35	Art.-No.	9147361	9147366
	€	20345,00	22775,00

*Composite label with controller

- Carefree complete solution for single-family house incl. living space ventilation (up to 300m³/h)
- One BM-2 operating module for the entire building services control center
- Hot water tank (180l), expansion tank (24l), connection set
- CHT central building services unit /200: Variant with integrated living space ventilation and without buffer storage. Recommendation: Defrosting energy is provided elsewhere.
- CHT building services control center / 200-35: Variant with integrated living space ventilation and 35l row buffer tank (incl. overflow valve). Recommendation: For safe provision of defrost energy in systems with one heating circuit.
- Note: Be sure to install sludge and magnetite separator. Also available as a variant for commercial use. Ask your sales consultant.



CHT Monoblock/300(-50(S))

Home automation center

CHA monoblock + storage package +

BM-2 + living room ventilation



TYPEE	CHT	07/300	10/300
Space heating Low temperature*		A++	A++
Space heating medium temperature*		A++	A++
Energy efficiency class WW storage tank		C	C
Energy efficiency class buffer tank		A	A
Energy efficiency class CWL-T-300		A	A
TYPEE of buffer tank	CHC	without	without
	CHC-50	Row memory	Row memory
	CHC-50S	Separation memory	Separation memory
Hot water storage tank capacity	l	180	180
Buffer storage tank capacity	l	34	34
Heat pump monobloc CHA		07/400V	10/400V
Dimensions			
Height	mm	1829	1829
Width	mm	1080	1080
Depth	mm	999	999
Weights			
Hot water/buffer tank	kg	145/21	145/21
CHA outdoor unit/indoor unit	kg	152/27	162/27
Living space ventilation	kg	50	50
CHT-Monoblock 300	Art.-No.	9147362	9147367
	€	1945,00	21880,00
CHT-Monoblock 300-50	Art.-No.	9147363	9147368
	€	20575,00	23005,00
CHT-Monoblock 300-50S	Art.-No.	9147364	9147369
	€	20630,00	23060,00

*Composite label with controller

- Carefree complete solution for single-family house incl. living space ventilation (up to 300m³/h)
- One BM-2 operating module for the entire building services control center
- Hot water tank (280l), expansion tank (24l), connection set
- CHT building services control center / 300: Variant with integrated living space ventilation and without buffer storage. Recommendation: Defrosting energy is provided elsewhere.
- CHT building services control center / 300-50: Variant with integrated living space ventilation and 50l row buffer tank
- CHT building services control center / 300-50S: Variant with integrated living space ventilation and 50l separating buffer tank for hydraulic decoupling. Recommendation: For safe provision of defrost energy in systems with several heating circuits.
- Note: Be sure to install sludge and magnetite separator. Also available as a variant for commercial use. Ask your sales consultant.

Notes

Coordinated air/water heat pump centers CHC monobloc In 10 variations: Simple, Complete.



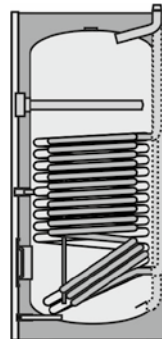
CHC-MONOBLOCK/200
CHC-MONOBLOCK/300

1. Basic unit with outdoor and indoor unit in 2 power levels incl. living room ventilation

2. HOT WATER STORAGE TANK IN 2 SIZES



CHA-07
CHA-10



180 Liter
oder
280 Liter

3. With or without Buffer tank

4. Always Included



35 liters
(200 l WW)
Row storage tank

50 liters
(300 L WW)
In-line or
Separation tank



BM-2 operating module



Expansion tank
MAG 24 L



CHC-Monoblock/200(-35) Heat pump center Heat pump CHA-Monoblock + storage package + BM-2



RG | H30

TYPEE	CHC	07/200	10/200
Space heating Low temperature*		A+++ ➔	A+++ ➔
Space heating medium temperature*		A++ ➔	A++ ➔
Energy efficiency class WW storage tank		B ➔	B ➔
Energy efficiency class buffer tank		A ➔	A ➔
TYPEe of buffer tank	CHC	without	with
	CHC-35	Row memory	Row memory
Hot water storage tank capacity	l	180	180
Buffer storage tank capacity	l	34	34
Heat pump monobloc CHA		07/400V	10/400V
Dimensions			
Height	mm	2137	2137
Height	mm	2081	2081
Width	mm	650	650
Width	mm	650	650
Depth	mm	685	685
Depth	mm	751	751
Weights			
Hot water/buffer tank	kg	145/21	145/21
CHA Outdoor unit/indoor unit	kg	152/27	162/27
CHC-Monoblock 200	Art.-No.	9146835	9146836
	€	15585,00	18015,00
CHC-Monoblock 200-35	Art.-No.	9146838	9146839
	€	16825,00	19255,00

- Carefree complete solution for single-family house: CHA monobloc + 180l hot water tank + BM-2 control module + 24l expansion tank + connection set + 35l buffer tank (optional) integrated
- space-saving & easily accessible structure
- modular design for easy insertion
- Plug-in connections for particularly easy and fast installation
- high efficient smooth tube heat exchanger with 2,3m²
- Variant without buffer tank: For systems where defrost

energy is available elsewhere.

- Variant with 35l row buffer tank (incl. overflow valve): For safe provision of defrost energy in systems with one heating circuit.
- Note: Be sure to install sludge and magnetite separator. Also available as a variant for commercial use. Ask your sales consultant.



CHC Monobloc/300(-50(S))

Heat pump center

Heat pump CHA-Monoblock + storage package + BM-2



RG | H30

TYPEE	CHC	07/300	10/300
Space heating Low temperature*		A++	A++
Space heating medium temperature*		A++	A++
Energy efficiency class WW storage tank		C	C
Energy efficiency class buffer tank		A	A
TYPEe of buffer tank	CHC	without	without
	CHC-50	Row memory	Row memory
	CHC-50S	Separation memory	Separation memory
Hot water storage tank capacity	l	180	180
Buffer storage tank capacity	l	50	50
Heat pump monobloc CHA		07/400V	10/400V
Dimensions			
Height	mm	2137	2137
Height	mm	2081	2081
Width	mm	650	650
Width	mm	650	650
Depth	mm	685	685
Depth	mm	751	751
Weights			
Hot water/buffer tank	kg	145/21	145/21
CHA Outdoor unit/indoor unit	kg	152/27	162/27
CHC-Monoblock 300	Art.-No.	9146841	9146842
	€	15930,00	18360,00
CHC-Monoblock 300-50	Art.-No.	9146844	9146845
	€	17055,00	19485,00
CHC-Monoblock 300-50S	Art.-No.	9146847	9146848
	€	17110,00	19540,00

- Carefree complete solution for one- to two-family house: CHC monoblock + 280l hot water tank + BM-2 control module + 24l expansion tank + connection set + 50l buffer tank (optional) integrated
- space-saving & easily accessible structure
- modular design for easy insertion
- Plug-in connections for particularly easy and fast installation
- highly efficient smooth tube heat exchanger with 3.0m²
- KFE valve and immersion sleeve already installed
- G1" connections VL/RL and G3/4" KW, WW, circulation from above

- Variant without buffer tank: For systems where defrost energy is available elsewhere.
- Variant with 50l row buffer tank (incl. overflow valve): For safe provision of defrost energy in systems with one heating circuit.
- Variant with 50l separating buffer tank (hydraulically decoupled): For safe provision of defrost energy in systems with several heating circuits.
- Note: Be sure to install sludge and magnetite separator. Also available as a variant for commercial use. Ask your sales consultant.

The above mentioned prices are without obligation and without VAT.



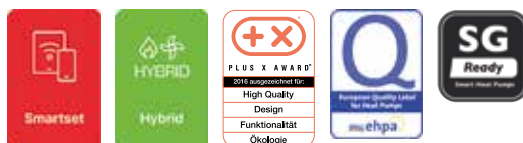
WOLF HEAT PUMPS

227



BWL-1S

Air-to-water heat pump in split design with indoor and outdoor unit



RG | H30

TYPEE	BWL-1S	05/230V	07/230V	10/400V	14/400V	16/400V
Energy efficiency class						
Room heating low temperature	A+++ → D	A++	A+++	A+++	A+++	A++
Space heating medium temperature	A+++ → D	A+	A++	A++	A++	A++
Seasonal space heating energy efficiency / heat rating at average climate conditions according to EU 811/2013						
η _s (35°C)* / Prated	%/kW	168 / 6	180 / 7	195 / 10	178 / 12	172 / 12
η _s (55°C)* / Prated	%/kW	115 / 5	133 / 6	130 / 11	131 / 12	125 / 15
Heating capacity / COP according to EN14511						
at A2/W35 nominal power	kW / -	3,4 / 3,7	5,0 / 3,5	7,6 / 3,8	8,8 / 3,8	10,8 / 3,3
at A7/W35 nominal power	kW / -	5,2 / 4,9	7,3 / 4,8	10,2 / 4,8	12,1 / 4,8	17,5 / 4,0
Power range at A2/W35	kW	1,9 – 6,6	1,9 – 8,8	2,9 – 10,6	3,1 – 12,4	3,5 – 12,2
Cooling capacity / EER according to EN14511						
at A35/W7 nominal capacity	kW / -	4,5 / 2,5	7,6 / 2,7	8,8 / 2,7	10,7 / 2,5	11,7 / 2,1
at A35/W18 nominal capacity	kW / -	6,1 / 3,5	9,0 / 3,8	8,7 / 4,1	12,0 / 3,4	13,0 / 2,5
Power range at A35/W18	kW	1,6 – 6,9	2,9 – 9,6	3,1 – 11,0	3,2 – 13,2	4,5 – 14,3
Dimensions (incl. feet and front doors)						
Outdoor unit WxHxD	mm	964×1261×363	964×862×363	964×1261×363	964×1261×363	964×1261×363
Indoor unit WxHxD	mm	440×790×340	440×790×340	440×790×340	440×790×340	440×790×340
Weight outdoor unit / indoor unit	kg	66 / 33	66 / 33	110 / 35	110 / 37	110 / 37
BWL-1S						
	Art.-No.	9146611	9146520	9146522	9146524	9146613
	€	6725,00	7150,00	9920,00	11005,00	11985,00

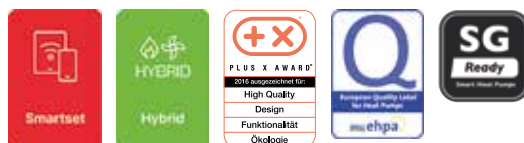
*in the composite label, an additional contribution of the temperature controller of up to 5% is possible.

- Modulating split heat pump for heating and cooling operation and domestic hot water preparation
- unobtrusive installation due to wall or floor bracket and lateral cover of the connections
- Refrigerant (R410A) is already pre-charged (for single line length up to 12 m; max. 25 m possible)
- Flow- and efficiency-optimized additional electric heating
- up to 6 kW for peak load reduction, as well as emergency operation and screed heating
- complete integration into the Wolf control system
- Slot for LAN / WLAN interface Link Home
- Contacts for EVU control signal or SG-ready (easy to integrate into intelligent energy management systems)



BWL-1SB

Air-to-water heat pump in split design with indoor and outdoor unit



RG | H30

TYPEE	BWL-1S - B	05/230V	07/230V	10/400V	14/400V	16/400V
Energy efficiency class						
Room heating low temperature	A+++ → D	A++	A+++	A+++	A+++	A++
Space heating medium temperature	A+++ → D	A+	A++	A++	A++	A++
Seasonal space heating energy efficiency / heat rating at average climate conditions according to EU 811/2013						
η _s (35°C)* / Prated	%/kW	168 / 6	180 / 7	195 / 10	178 / 12	172 / 12
η _s (55°C)* / Prated	%/kW	115 / 5	133 / 6	130 / 11	131 / 12	125 / 15
Heating capacity / COP according to EN14511						
at A2/W35 nominal power	kW / -	3,4 / 3,7	5,0 / 3,5	7,6 / 3,8	8,8 / 3,8	10,8 / 3,3
at A7/W35 nominal power	kW / -	5,2 / 4,9	7,3 / 4,8	10,2 / 4,8	12,1 / 4,8	17,5 / 4,0
Power range at A2/W35	kW	1,9 – 6,6	1,9 – 8,8	2,9 – 10,6	3,1 – 12,4	3,5 – 12,2
Cooling capacity / EER according to EN14511						
at A35/W7 nominal capacity	kW / -	4,5 / 2,5	7,6 / 2,7	8,8 / 2,7	10,7 / 2,5	11,7 / 2,1
at A35/W18 nominal capacity	kW / -	6,1 / 3,5	9,0 / 3,8	8,7 / 4,1	12,0 / 3,4	13,0 / 2,5
Power range at A35/W18	kW	1,6 – 6,9	2,9 – 9,6	3,1 – 11,0	3,2 – 13,2	4,5 – 14,3
Dimensions (incl. feet and front doors)						
Outdoor unit WxHxD	mm	964×862×363	964×862×363	964×1261×363	964×1261×363	964×1261×363
Indoor unit WxHxD	mm	440×790×340	440×790×340	440×790×340	440×790×340	440×790×340
Weight outdoor unit / indoor unit	kg	66 / 31	66 / 31	110 / 33	110 / 35	110 / 35
BWL-1S - B						
Art.-No.		9146612	9146521	9146523	9146525	9146614
€		6245,00	6660,00	9425,00	10505,00	11495,00

*in the composite label, an additional contribution of the temperature controller of up to 5% is possible.

- Modulating split heat pump for heating and cooling operation and domestic hot water preparation
- discreet installation by wall or floor console and lateral cover of the connections
- Refrigerant (R410A) is already pre-charged (for single line length up to 12 m; max. 25 m possible)
- Optionally available: flow- and efficiency-optimized addi-

onal electric heating up to 6 kW for peak load reduction, as well as emergency operation and screed heating

- Slot for LAN / WLAN interface Link Home
- Contacts for EVU control signal or SG-ready (easy to integrate into intelligent energy management systems)



BWL-1SB

Air-to-water heat pump in split design with indoor and outdoor unit



RG | H30

TYPEE	BWL-1S - B	10/230V	14/230V
Energy efficiency class			
Room heating low temperature	A+++ → D	A++	A++
Space heating medium temperature	A+++ → D	A+	A+
Seasonal space heating energy efficiency / heat rating at average climate conditions according to EU 811/2013			
η _s (35°C)* / Prated	%/kW	150 / 10	150 / 12
η _s (55°C)* / Prated	%/kW	111 / 10	111 / 11
Heating capacity / COP according to EN14511			
at A2/W35 nominal power	kW / -	7,7 / 3,5	9,6 / 3,3
at A7/W35 nominal power	kW / -	11,1 / 4,7	14,1 / 4,3
Power range at A2/W35	kW	3,6 – 9,5	3,6 – 10,9
Cooling capacity / EER according to EN14511			
at A35/W7 nominal capacity	kW / -	6,6 / 2,7	8,2 / 2,5
at A35/W18 nominal capacity	kW / -	8,5 / 3,4	10,1 / 2,9
Power range at A35/W18	kW	4,9 – 11,2	4,9 – 12,9
Dimensions (incl. feet and front doors)			
Outdoor unit WxHxD	mm	964×1261×363	964×1261×363
Indoor unit WxHxD	mm	440×790×340	440×790×340
Weight outdoor unit / indoor unit	kg	110 / 33	110 / 35
BWL-1S - B		Art.-No. 9146526	9146527
		€ 9015,00	10105,00

- Modulating split heat pump for heating and cooling operation and domestic hot water preparation
- discreet installation by wall or floor console and lateral cover of the connections
- Refrigerant (R410A) is already pre-charged (for single line length up to 12 m; max. 25 m possible)
- Optionally available: flow- and efficiency-optimized additional electric heating up to 6 kW for peak load reduction, as well as emergency operation and screed heating
- Slot for LAN / WLAN interface Link Home
- Contacts for EVU control signal or SG-ready (easy to integrate into intelligent energy management systems)

Coordinated air/water heat pump centers CHC-Split In 25 variations: Simple, Complete.



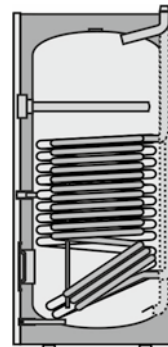
CHC-SPLIT/200
CHC-SPLIT/300

1. Basic unit with outdoor and Indoor unit in 5 power levels

2. HOT WATER STORAGE TANK IN 2 SIZES



BWL-1S-05
BWL-1S-07
BWL-1S-10
BWL-1S-14
BWL-1S-16



200 Liter
oder
300 Liter

3. With or without Buffer tank

4. Always Included



35 liters
(200 l WW)
Row storage tank

50 liters
(300 l WW)
In-line or
Separation tank



BM-2 operating module



Expansion tank
MAG 24 L



CHC-Split/200(-35) Heat pump center Heat pump BWL-1S + storage package + BM-2



RG | H30

TYPEE	CHC-Split 200	05/200	07/200	10/200	14/200	16/200
Room heating low temperature	A++ → G	A++	A+++	A+++	A+++	A++
Space heating medium temperature	A++ → G	A+	A++	A++	A++	A++
Energy efficiency class WW storage tank	A+ → F	B	B	B	B	B
Energy efficiency class buffer tank	A+ → F	A	A	A	A	A
Buffer tank						
CHC		without	without	without	without	without
CHC-35		In-line storage	In-line storage	In-line storage	In-line storage	In-line storage
Storage tank capacity hot water storage tank	l	180	180	180	180	180
Buffer storage tank capacity	l	34	34	34	34	34
Heat pump split design BWL-1S		05/230V	07/230V	10/400V	14/400V	16/400V
Dimensions						
Height	mm	2137	2137	2137	2137	2137
Width	mm	2081	2081	2081	2081	2081
Depth	mm	650	650	650	650	650
Height	mm	650	650	650	650	650
Width	mm	685	685	685	685	685
Depth	mm	751	751	751	751	751
Weights						
Hot water tank/buffer tank	kg	145/21	145/21	145/21	145/21	145/21
BWL-1S outdoor unit/indoor unit	kg	66/31	66/31	110/35	110/37	110/35
CHC-Split 200	Art.-No.	9146657	9146658	9146659	9146660	9146661
	€	11570,00	11845,00	14575,00	15695,00	16705,00
CHC-Split 200-35	Art.-No.	9146662	9146663	9146664	9146665	9146666
	€	12845,00	13130,00	15855,00	16975,00	17980,00

*Composite label with controller

- Carefree complete solution for single-family house: BWL-1S + 180l hot water tank + BM-2 control module + 24l expansion tank + connection set + 35l buffer tank (optional) integrated
- modular design for easy insertion
- Plug-in connections for particularly easy and fast installation
- Can be optimally combined with the building services control center with CWL-T
- high efficient smooth tube heat exchanger with 2,3m²
- Variant without buffer tank: For systems where defrost energy is available elsewhere.
- Variant with 35l row buffer tank (incl. overflow valve): For safe provision of defrost energy in systems with one heating circuit.



CHC-SPLIT/300(-50(S))

Heat pump center

Heat pump BWL-1S +

storage package + BM-2



RG | H30



TYPEE	CHC-Split 300	05/300	07/300	10/300	14/300	16/300
Room heating low temperature	A++ → G	A++	A+++	A+++	A+++	A++
Space heating medium temperature	A++ → G	A+	A++	A++	A++	A++
Energy efficiency class WW storage tank	A+ → F	C	C	C	C	C
Energy efficiency class buffer tank	A+ → F	A	A	A	A	A
Buffer tank						
CHC		without	without	without	without	without
CHC-50		In-line storage	In-line storage	In-line storage	In-line storage	In-line storage
CHC-50S		Separation memory	Separation memory	Separation memory	Separation memory	Separation memory
Storage tank capacity hot water storage tank	I	280	280	280	280	280
Buffer storage tank capacity	I	50	50	50	50	50
Heat pump split design BWL-1S		05/230V	07/230V	10/400V	14/400V	16/400V
Dimensions						
Height	mm	1829	1829	1829	1829	1829
Width	mm	600	600	600	600	600
Depth	mm	999	999	999	999	999
Weights						
Hot water tank/buffer tank	kg	140/22	140/22	140/22	140/22	140/22
BWL-1S outdoor unit/indoor unit	kg	66/33	66/33	110/35	110/37	110/37

CHC-Split 300	Art.-No.	9146667	9146668	9146669	9146670	9146671
	€	11945,00	12220,00	14950,00	15555,00	17075,00
CHC-Split 300+50	Art.-No.	9146672	9146673	9146674	9146675	9146676
	€	13075,00	13355,00	16070,00	17185,00	18195,00
CHC-Split 300L+50	Art.-No.	9146677	9146678	9146679	9146680	9146681
	€	13145,00	13425,00	16135,00	17255,00	18260,00






*Composite label with controller

- Carefree complete solution for one- to two-family house: BWL-1S + 280l hot water tank + BM-2 operating module + 24l expansion tank + connection set + 50l buffer tank (optional) integrated
- modular design for easy insertion
- Plug-in connections for particularly easy and fast installation
- can be combined with the building services control center with CWL-T
- highly efficient smooth tube heat exchanger with 3.0m²
- KFE valve and immersion sleeve already installed
- G1" connections VL/RL and G3/4" KW, WW, circulation from above
- Variant without buffer tank: For systems where defrost energy is available elsewhere.
- Variant with 50l row buffer tank (incl. overflow valve): For safe provision of defrost energy in systems with one heating circuit.
- Variant with 50l separating buffer tank (hydraulically decoupled): For safe provision of defrost energy in systems with several heating circuits.



Control systems / Control accessories

	Description	Art. no.	DG	€
	BM-2 programming unit <ul style="list-style-type: none"> • Central operating module for WOLF heat generators of the WRS-2 generation • Room/weather-compensated temperature controller • for installation in heat generators / additional modules or in wall sockets for remote control • with time programs for heating, hot water and circulation • intuitive menu guidance with plain text display and 3.5" colour display • Commissioning assistant with automatic detection of plant components • Support of 5 heat generators with KM-2 • Adjustment of heating and cooling curves • Can be used as remote control for CWL Excellent / CWL-2 • Compatible with WOLF Smartset 			
	incl. outdoor temperature sensor, BM-2 black	2745304	H41	489.00
	incl. outdoor temperature sensor, BM-2 white	2745927	H41	489.00
	without outdoor temperature sensor, BM-2 black	2745306	H41	452.00
	Note: Required for the operation in accordance with EnEV.			
	Outside, ceiling or room temperature sensor	2792021	H41	37.00
	Room module RM-2 4 in 1: Automatic recognition of the function based on system components: <ul style="list-style-type: none"> • Room temperature controller with daily/weekly program • Remote control for living room ventilation CWL Excellent / CWL 2 (at the same time as room temperature control) • Remote control of all heating or mixing circuits (with BM/BM-2 in the system) • Remote control for up to 7 individual heating circuits with several RM-2 (with BM/BM-2 in the system) • Illuminated touch screen • Integrated room temperature sensor • Connection via eBus interface • Many functions: Holiday mode, fault messages, temperature displays etc. • Compatible with WOLF Smartset 	2747657	H41	252.00




Control systems / Control accessories

	Description	Art. no.	DG	€
	Room module RM-2 Wireless Wireless version of the RM-2 A BASE WIRELESS is required for connection to the heat generator/ventilation system. (Long life batteries included) 4 in 1: Automatic recognition of function based on system components: <ul style="list-style-type: none"> • Room temperature controller with daily/weekly program • Remote control for living room ventilation CWL Excellent / CWL 2 (simultaneously with room temperature control) • Remote control of all heating or mixer circuits (with BM/BM-2 in the system) • Remote control for up to 7 individual heating circuits with several RM-2 (with BM/BM-2 in the system) • Illuminated touch screen • Integrated room temperature sensor • Many functions: Vacation mode, fault messages, temperature displays, etc. • Compatible with WOLF Smartset • Long life batteries included 	2747658	H41	298.00
	Base Wireless <ul style="list-style-type: none"> • Wireless receiver with eBus connection for the heat generator or domestic ventilation. • For wireless communication with RM-2 Wireless or outdoor temperature sensor Wireless 	2747659	H41	228.00
	Outdoor temperature sensor for RM-2 Wireless Wireless based outdoor temperature sensor BASE WIRELESS is required for connection. Battery with long runtime included.	2747660	H41	169.00
	AM display module For installation in the appliance Note: Required for appliance operation if the BM-2 is used as a remote control.	2745310	H41	244.00
	Wall mounting base for BM-2 For using the BM-2 programming unit as a remote control black white	1731129 1731442	H41 H41	33.80 33.80







Control systems / Control accessories

	Description	Art. no.	DG	€
	MM-2 mixer module Extension module for weather-compensated flow temperature control of a circuit with mixer. <ul style="list-style-type: none"> • Can be extended with the BM-2 programming unit as a remote control • Up to 7 mixer modules can be integrated into one system • Easy configuration of the controller by selecting predefined system versions • eBus interface with automatic energy management • Rast 5 connection technology • Incl. flow temperature sensor 	2745865	H41	412.00
	SM1-2 solar module Extension module for controlling a solar system with up to 2 storage tanks and 2 collector arrays <ul style="list-style-type: none"> • Simple configuration of the controller by selection of pre-defined plant variants • In combination with Wolf heaters, higher energy savings due to intelligent Storage tank recharging, i.e. blocking of storage tank recharging with a sufficiently high solar yield • Heat quantity measurement with external heat quantity meter for all configurations • Function control for volume flow and gravity brake • Selection of the storage mode (priority, secondary and parallel operation) • Display of setpoints and actual values in the adjustment module BM-2 eBus interface with automatic energy management • Rast 5 Connection technology • Immersion sensor PT1000 For collector • Immersion sensor 5K NTC for storage tank • Storage immersion sleeve 1/2" with PG strain relief • Collector immersion sleeve 3/4" with PG strain relief and seal 	2745867	H41	305.00


Control systems / Control accessories

	Description	Art. no.	DG	€
	SM2-2 solar module Extension module for controlling a solar system with up to 2 storage tanks and 2 collector arrays	2745869	H41	500.00
	<ul style="list-style-type: none"> • Simple configuration of the controller by selecting predefined system variants • In conjunction with Wolf heaters higher energy savings through intelligent storage tank recharging, i.e. blocking of storage tank recharging if solar yield is sufficiently high • Heat quantity measurement with external heat quantity meter for all configurations • Function control for volume flow and gravity brake • Selection of the storage mode (priority, subordinate and parallel operation) • Display of set and actual values in the BM-2 operating module • eBus interface with automatic energy management • Rast 5 Connection technology • Immersion sensor PT1000 For collector • Immersion sensor 5K NTC for storage tank • Storage immersion sleeve 1/2" with PG strain relief • Collector immersion sleeve 3/4" with PG strain relief and seal 			
	Cascadenmodul KM-2 V2 Erweiterungsmodul zur Regelung von Anlagen mit to zu 5 Wärmeerzeugern. Passend nur für die CHA Monoblock und BWL-1S(B).	2747765	H41	615.00
	<ul style="list-style-type: none"> • einfache Konfiguration des Reglers durch Auswahl von vordefinierten Anlagenvarianten • Ansteuerung eines Mischerkreises • Bedienmodul BM-2 einclipsbar oder mit Wandsockel als Fernbedienung erweiterbar • 0-10V-Eingang für GLT-Anlagen, Störmeldeausgang 230V • eBus-Schnittstelle mit automatischem Energiemanagement • Rast 5 Anschlusstechnik • Für Hybridbetrieb vorbereitet • Flexibler Betrieb: Warmwasserbereitung und Heizen oder Kühlen gleichzeitig 			
	AFB analogue remote control <ul style="list-style-type: none"> • Basic WRS remote control for heating and mixer circuits • Each heating circuit can be operated separately with a remote control • Integrated room temperature sensor • Setting of temperature and program selection via rotary selector • eBus interface 	2744551	H41	132.00
	Maximum thermostat For underfloor heating For switching off the heating circuit pump if the set temperature is exceeded.	2791905	H41	65.00

Control systems / Control accessories

	Description	Art. no.	DG	€
	Temperature sensor (NTC 5k, Ø 6 mm) loose Can be used as a cylinder, boiler, central unit and supply air temperature sensor	8852829	H41	67.00
	Heat metering kit For measuring the yield of SM1-2 and SM2-2 solar modules Consisting of: Flow meter, return contact sensor (NTC 5k), 2 union connections with male thread 1/2"			
	QNenn/max 1,5/3 m³/h	2744392	H41	204.00
	Qnom/max. 2.5/5 m³/h	2744610	H41	250.00
	Return contact sensor (NTC 5k) For SM1-2 and SM2-2 solar modules For measuring the yield using Δt and the flow rate set in the control unit.	2792022	H41	57.00
	WOLF LINK HOME LAN / WLAN INTERFACE MODULE Consisting of: WOLF LINK HOME interface module, connection cable, installation / operating instructions, network cable <ul style="list-style-type: none"> Integrated LAN and WLAN interfaces for integration of WOLF heating systems in one network, or For WOLF heating device connections to the Wiburler Smarthome system 	2746365	H41	270.00
	Note: To obtain full access to both functions and operation a programming module BM-2 is recommended.			
	WOLF Link 4G Consisting of: Interface module WOLF Link 4G incl. LTE router with external antenna, mounting / operating instructions, power supply unit <ul style="list-style-type: none"> Interface module for wall mounting in systems without a fixed Internet connection Connection of WOLF heating systems to the WOLF Smartset Portal / App Use for parameterization of compatible WOLF devices Power supply via power supply unit A mobile data tariff (min. 3G) with approx. 500MB/month is required for operation. 	2747704	H41	1060.00
	Note: Service leasing variant incl. Multi-Sim card (minimum contract term 2 years) available from Wolf Service.			
	iSM8i OPEN SOURCE ETHERNET INTERFACE MODULE Interface module with disclosed TCP/IP protocol for system-independent integration of WOLF heating appliances and ventilation units.	2745831	H41	277.00

Control systems / Control accessories

	Description	Art. no.	DG	€
	<p>KNX interface kit Interface kit for integration of WOLF heating appliances into a KNX network</p> <p>Consisting of: Interface module ISM8i ETHERNET, KNX-IP-BAOS module, installation and operating instructions, network cable</p>	2745713	H41	845.00



BWL-1-I AIR-TO-WATER HEAT PUMP IN MONOBLOC CONSTRUCTION, IN- DOOR INSTALLATION



DG | H30

TYPEE	BWL-1-I	08	10	12	14
Energy efficiency class					
Space heating low temperature	A+++ → D	A++	A+	A++	A++
Space heating medium temperature	A+++ → D	A+	A+	A+	A+
Seasonal space heating energy efficiency / heat rating at average climate conditions according to EU 811/2013					
η _s (35°C)* / Prated	%/kW	154 / 11	135 / 13	153 / 14	162 / 17
η _s (55°C)* / Prated	%/kW	112 / 8	110 / 13	111 / 13	114 / 17
Heating capacity / COP acc. to EN14511					
with A2/W35 nominal power	kW / -	8.4 / 3.8	9.6 / 3.7	11.7 / 3.7	13.5 / 3.6
for A7/W35 nominal power	kW / -	8.7 / 4.5	9.8 / 4.4	11.9 / 4.3	13.6 / 4.2
with A7/W45 nominal power	kW / -	10.4 / 3.3	11.7 / 3.6	14.4 / 3.5	13.0 / 3.3
with A10/W35	kW / -	9.9 / 4.7	11.1 / 4.6	13.8 / 4.5	13.7 / 4.5
with A7/W35 nominal power	kW / -	7.5 / 3.7	8.5 / 3.2	10.4 / 3.1	11.3 / 3.0
Dimensions					
height	mm	1665	1665	1665	1665
width	mm	985	985	985	985
depth	mm	810	810	810	810
Weight	kg	217	242	244	254
BWL-1-I					
	Art. no.	9145394	9145395	9145396	9145397
	€	10725.00	12440.00	13440.00	15420.00

- High-efficiency air-to-water heat pump for a max. heating water temperature of 63°C and a min. air temperature down to -25°C
- Heat flow meter integrated in the device (approved by BAFA)
- electronic soft start for starting current limitation
- electronically controlled electric heating element 6kW (or 8kW for BWL-1-14) for demand-oriented support of heating and hot water preparation in monoenergetic operation
- Integrated control for high-efficiency pump (EEI < 0.23) and switching valve
- vibration-decoupled connections
- speed-controlled EC centrifugal fan
- Ready-to-plug-in connection (incl. 5m cable) from the heat pump to the heat pump manager WPM-1 „Wolf Easy connect System
- defrosting on demand by natural or active defrosting (process reversal)
- integrated phase and rotating field monitor
- Discharge connection either left or right, corner installation possible
- Suction duct connection at the rear
- External raising of the system temperature by Smart Grid or PV system
- Easy installation due to direct connection of supply and return



BWS-1 Ground source heat pump (sole) indoor installation



DG | H30

TYPEE	BWS-1	06	08	10	12	16
Energy efficiency class						
Space heating low temperature	A+++ → D	A+++	A++	A++	A++	A++
Space heating medium temperature	A+++ → D	A+	A+	A++	A++	A++
Seasonal space heating energy efficiency / heat rating at average climate conditions according to EU 811/2013						
η _s (35°C)* / Prated	%/kW	176 / 6	171 / 9	170 / 11	166 / 12	162 / 18
η _s (55°C)* / Prated	%/kW	121 / 5	118 / 7	149 / 9	129 / 11	126 / 17
Heating capacity / COP acc. to EN14511						
with B0/W35 Nennleistung	kW / -	5.9 / 4.7	8.4 / 4.7	10.8 / 4.7	12.0 / 4.7	16.8 / 4.6
with B0/W55 Nennleistung	kW / -	5.3 / 2.8	7.4 / 2.8	9.2 / 2.9	10.5 / 2.8	15.8 / 2.8
with B5/W35 Nennleistung	kW / -	6.9 / 4.3	9.7 / 5.4	12.3 / 5.4	13.8 / 5.3	19.9 / 5.3
bei B-5/W45 Nennleistung	kW / -	4.8 / 3.1	6.8 / 3.2	8.6 / 3.1	9.7 / 3.1	14.7 / 3.2
Dimensions						
height	mm	740	740	740	740	740
width	mm	600	600	600	600	600
depth	mm	650	650	650	650	650
Weight	kg	140	145	148	168	174
BWS-1	Art. no.	9145384	9145385	9145386	9145387	9145388
	€	9395.00	9550.00	9940.00	11060.00	12500.00

- High efficiency ground source heat pump (sole) for a maximum heating water temperature of 63 °C and a sole temperature of -7 °C to 21 °C
- Heat meter integrated into the appliance (recognised by BAFA)
- Electronic soft start to limit start-up current (BWS-1-08/10/12/16)
- Electronically controlled electric heating element 6 kW to support central heating and DHW heating in mono energetic operation as required
- High efficiency pumps (EEI < 0.23) for heating and sole circuits
- Diverter valve for DHW heating
- Insulated safety valve assemblies for heating circuit/DHW heating and sole circuit
- Anti-vibration connections
- „Wolf Easy Connect System“ with fully wired connection (including 4 m cable) from the heat pump to the WPM-1 heat pump manager
- Integral phase and rotary field monitors
- External system temperature raising by Smart Grid or PV system



BWW-1 Ground source heat pump (water) indoor installation






DG | H30

TYPEE	BWW-1	07	11	13	15	21
Energy efficiency class						
Space heating low temperature	A+++ → D	A+++	A+++	A+++	A+++	A+++
Space heating medium temperature	A+++ → D	A++	A++	A++	A++	A++
Seasonal space heating energy efficiency / heat rating at average climate conditions according to EU 811/2013						
η _s (35°C)* / Prated	%/kW	184 / 7	194 / 11	193 / 13	193 / 15	191 / 21
η _s (55°C)* / Prated	%/kW	129 / 6	135 / 9	134 / 12	136 / 14	134 / 17
consisting of:		BWS-1-06 + BWM-S	BWS-1-08 + BWM-S	BWS-1-10 + BWM-S	BWS-1-12 + BWM-L	BWS-1-16 + BWM-L
Dimensions BWS-1 / BWM						
with W10/W35 Nennleistung	kW / -	7.1 / 5.4	10.5 / 5.6	13.3 / 5.6	15.0 / 5.5	20.8 / 5.5
with W10/W45 Nennleistung	kW / -	6.9 / 4.2	10.0 / 4.4	12.2 / 4.3	14.0 / 4.3	19.3 / 4.3
with W10/W55 Nennleistung	kW / -	6.2 / 3.2	9.3 / 3.3	11.5 / 3.2	13.5 / 3.3	17.0 / 3.3
Weight BWS-1 / BWM	kg	141 / 11	145 / 11	149 / 11	169 / 16	174 / 16
BWW-1						
	Art. no.	9146033	9146034	9146035	9146036	9146037
	€	10850.00	11020.00	11420.00	12850.00	14265.00

- High efficiency ground source heat pump (water) with intermediate heat exchanger for a max. heating water temperature of 63 °C and a well water temperature of +7 °C to 22 °C
- Heat meter (recognised by BAFA) integrated into the appliance
- Electronic soft start to limit start-up current (BWW-1-11/13/15/21)
- Electronically controlled electric heating element 6 kW to support central heating and DHW heating in mono energetic operation
- High efficiency pumps (EEI < 0.23) for heating and sole circuits
- Diverter valve for DHW heating
- Insulated safety assemblies for heating circuit/DHW heating and sole circuit
- Anti-vibration connections
- „Wolf Easy Connect System“ with fully wired connection (including 4 m cable) from the heat pump to the WPM-1 heat pump manager
- Integral phase and rotary field monitors
- BWM-S or BWM-L water/water module
- Nickel soldered plate heat exchanger made from stainless steel
- Diffusion-proof thermal insulation
- Wall retainer with fixing kit
- Parameter plug for configuring the heat pump
- External system temperature raising through Smart Grid or PV system




Control systems / Control accessories

	Description	Art. no.	DG	€
	WPM-1 heat pump manager With BM programming unit (incl. outside temperature sensor and mixer circuit sensor) <ul style="list-style-type: none">• Room temperature-dependent/weather-compensated controller, with time program for heating and DHW to regulate one heating circuit, one circuit with mixer and DHW heating• Flexible wall mounting• Heat pump connection to WPM-1 ready to plug in „Wolf Easy Connect System“• The entire system can be disconnected from the mains using the main switch in the WPM-1• Easy commissioning through pre-configured hydraulic schemes• Heat quantity indication• Display of seasonal performance factor (SPF) and daily performance factor (DPF) possible by connecting the pulse signal from the on-site electricity meter to the S interface• Programmable input for DHW circulation remote control, heating/ DHW block, external demand ON/OFF,0-10V• Programmable output for DHW circulation pump (timer or switch), alarm output, swimming pool charging pump• Floating contact for switching on a second heat generator• eBus interface• Connection possibility for Smart Grid or PV system	2744960	H41	1455.00
	Connecting cable (power cable and control cable) Fully wired cable set for power cable and control cable from the heat pump manager to the heat pump, (min. pipe diameter Ø 75 mm) 6 m 14m 21m 30m	2744916 2744917 2744918 2744919	H41 H41 H41 H41	243.00 371.00 494.00 655.00
	KM-2 cascade module Extension module to control systems with a low loss header or cascade operation. Can be used for up to 5 heat generators. (Subject to heat generator) <ul style="list-style-type: none">• Easy configuration of the controller by selecting predefined system versions• Switching of a circuit with mixer• BM-2 programming unit can be clipped into place or extended as a remote control unit with a wall mounting base• 0-10V input for building management systems, fault message output 230V• eBus interface with automatic energy management• Rast 5 connection technology	2745866	H41	615.00

Control systems / Control accessories

	Description	Art. no.	DG	€
	MM mixer module Extension module for weather-compensated flow temperature control of a mixer circuit. <ul style="list-style-type: none"> • Can be extended as remote control with operating module BM • Up to 7 mixer modules can be integrated into one system • Simple configuration of the controller by selecting predefined system variants • Operating module BM can be clipped in or extended with wall socket as remote control • eBus interface with automatic energy management • Rast 5 Connection technology • can also be used for hot water preparation or return temperature increase • incl. flow temperature sensor 	2744293	H41	410.00
	BM programming unit Room temperature-dependent/weather-compensated control, time programs for heating and DHW, backlit LCD, simple menu navigation through plain text display, operation using rotary selector with push-button function, 4 function keys for frequently used functions (heating, DHW, setback, information), mounted in wall mounting base, only one programming unit necessary for installations with multiple circuits, eBus interface <p>Without outside temperature sensor (only in combination with wall mounting base, art.-no. 2744275)</p>	2744347	H41	442.00
	Wall mounting base Wall mounting base for using the BML programming unit as a remote control	2744275	H41	37.00
	Maximum thermostat For underfloor heating For switching off the heating circuit pump if the set temperature is exceeded.	2791905	H41	65.00
	WOLF LINK PRO LAN/WLAN external interface module Consisting of: Interface module ISM7e / WOLF LINK PRO, installation and operating instructions, eBus cable, power supply unit, network cable <ul style="list-style-type: none"> • LAN and WLAN interface module for wall mounting or mobile application • Connection of Wolf heating appliances to the Wolf Smartset portal/App • mobile application for parametrisation of the heating system • Voltage supply via mains adapter or USB <p>Note: Nur in Verbindung mit BM-2 verwendbar.</p>	2746366	H41	505.00

Control systems / Control accessories

	Description	Art. no.	DG	€
	SM1-2 solar module Extension module for controlling a solar system with up to 2 storage tanks and 2 collector arrays <ul style="list-style-type: none"> • Simple configuration of the controller by selection of pre-defined plant variants • In combination with Wolf heaters, higher energy savings due to intelligent Storage tank recharging, i.e. blocking of storage tank recharging with a sufficiently high solar yield • Heat quantity measurement with external heat quantity meter for all configurations • Function control for volume flow and gravity brake • Selection of the storage mode (priority, secondary and parallel operation) • Display of setpoints and actual values in the adjustment module BM-2 eBus interface with automatic energy management • Rast 5 Connection technology • Immersion sensor PT1000 For collector • Immersion sensor 5K NTC for storage tank • Storage immersion sleeve 1/2" with PG strain relief • Collector immersion sleeve 3/4" with PG strain relief and seal 	2745867	H41	305.00
	SM2-2 solar module Extension module for controlling a solar system with up to 2 storage tanks and 2 collector arrays <ul style="list-style-type: none"> • Simple configuration of the controller by selecting predefined system variants • In conjunction with Wolf heaters higher energy savings through intelligent storage tank recharging, i.e. blocking of storage tank recharging if solar yield is sufficiently high • Heat quantity measurement with external heat quantity meter for all configurations • Function control for volume flow and gravity brake • Selection of the storage mode (priority, subordinate and parallel operation) • Display of set and actual values in the BM-2 operating module • eBus interface with automatic energy management • Rast 5 Connection technology • Immersion sensor PT1000 For collector • Immersion sensor 5K NTC for storage tank • Storage immersion sleeve 1/2" with PG strain relief • Collector immersion sleeve 3/4" with PG strain relief and seal 	2745869	H41	500.00
	Temperature sensor (NTC 5k, Ø 6 mm) loose Can be used as a cylinder, boiler, central unit and supply air temperature sensor	8852829	H41	67.00



SWP DHW heat pump

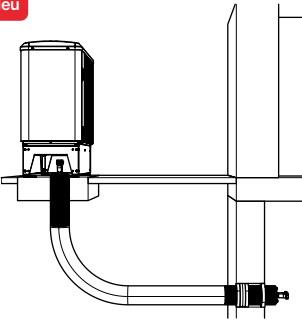
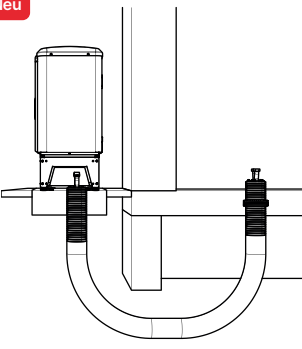
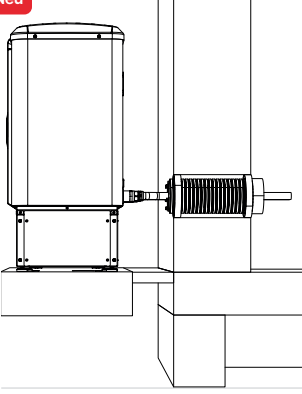




DG | H30




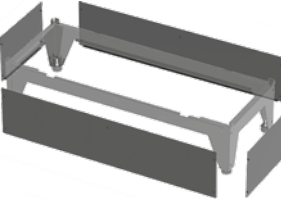

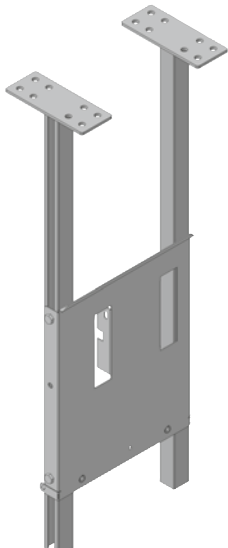
TYPEE	SWP	200	260	260B
Energy efficiency class				
Energy efficiency class Water heating	A+ → F	A+	A+	A+
Heating capacity	kW	2	2	2
COP acc. to EN16147				
with A15/W10-55	-	3.24	3.54	3.54
with A7/W10-55	-	2.94	3.08	3.08
Tapping code		L	XL	XL
Output of additional electr. heating element	kW	1.5	1.5	1.5
Cylinder capacity	l	200	260	260
Dimensions				
Dimensions ØxH	mm	Ø650 × 1714	Ø650 × 2000	Ø650 × 2000
Tilting measure	mm	1780	2080	2080
Weight	kg	80	115	100
SWP	Art. no.	2484891	2484841	2485089
	€	3355.00	3525.00	3475.00

- Fully wired DHW heat pump
- Recirculation air, extract air and outdoor air mode possible via ductwork system
- Cellar or storage room can be cooled and dehumidified
- Safe separation of refrigerant and potable water due to external safety condenser
- Increase of on-site consumption of power from a photovoltaic system thanks to Smart Grid Ready connection to the inverter (increased set value up to 75 °C)
- Integrated electric heating element 1.5 kW
- SWP-260 is additionally equipped with a 1 m² indirect coil for dual mode operation (solar/gas/biomass)
- Integral control unit with 2 time programs, pasteurisation function and demand-dependent defrost function
- SWP-260 and SWP-260B with 2 additional air duct connections at the side for rooms with low ceilings
- 160 mm air connector for air duct with WOLF DN160 insulated duct

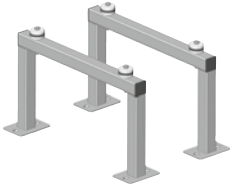
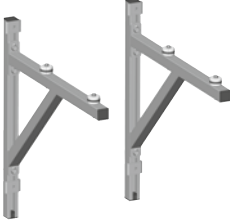




Heat pump accessories

	Description	for product	Art. no.	DG	€
	SET CELLAR INLET Consisting of: 5m jacket pipe DN200 5m insulated corrugated stainless steel pipe DN32 each 5m cable conduit for control and power supply Sealing set for jacket pipe and cellar inlet (core hole drilling or lining pipe DN250) Assembly accessories (assembly instructions, route tape, sheet pull)				
	DN200/32 - 3M		2075164	H31	1875.00
	DN200/32 - 5M		2075165	H31	2185.00
	DN200/32 - 10M		2075166	H31	2735.00
	SET FLOOR PLATE INSERTION Consisting of: 10m jacket pipe DN200 10m insulated corrugated stainless steel pipe DN32 each 10m cable duct for control and power supply Sealing set for jacket tube and base plate Assembly accessories (assembly instructions, route tape, sheet pull)				
	DN200/32 - 5M		2075162	H31	1735.00
	DN200/32 - 10m		2075163	H31	2290.00
	SET WALL BUSHING Consisting of: 0,7m jacket pipe DN160 1.5m insulated corrugated stainless steel pipe DN25 Sealing set for jacket pipe and wall bushing (core drill hole or lining pipe DN250) Mounting accessories DN160/25		2075161	H31	905.00
	Adaptornippel-Sets G 1 1/4-Rp 1 1/4 Einfacher Anschluss des Außenmoduls am Fremdfernwärmerohr		9147597	H31	32.90
	Adaptornippel-Sets G 1 1/4-G 1 1/4 Einfacher Anschluss des Außenmoduls am Fremdfernwärmerohr		9147598	H31	41.00



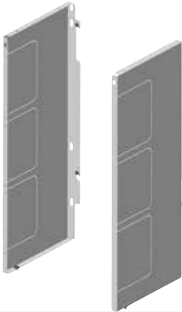

Heat pump accessories

	Description	for product	Art. no.	DG	€
Neu 	Adaptornippel-Sets G 1 1/4-G 1 1/2 Einfacher Anschluss des Außenmoduls am Fremdfernwärmerohr		9147599	H31	46.00
Neu 	Kürzungsset für Vorlauf- und Rücklauf	CHA	2075113	H31	26,00
	Floor bracket CHA-Monoblock <ul style="list-style-type: none"> • Floor console for a raised stand • Reduces contamination of the external module • Advantages for areas with higher snow-fall intensity 	CHA	9146878	H31	351.00
	CLADDING FLOOR CONSOLE <ul style="list-style-type: none"> • Optionally suitable for CHA monoblock floor console • For a high-quality and closed look • Set consisting of cladding sheets and matt black design screws 	floor console CHA	9147102	H31	245.00
	Wandkonsole CHA-Monoblock <ul style="list-style-type: none"> • Wandkonsole für einen erhöhten Stand • Platzsparende und unauffällige Lösung für Massivbauwände • Robuste Lösung für anspruchsvolle Einsatzzwecke • Max. Windlastzone 3 • Schneelast to max. 100kg/m² 	CHA-Monoblock	2486375	H31	403.00
	Appliance bracket <ul style="list-style-type: none"> • For fastening the wall units to the ceiling before laying the screed • Screed drying without storage possible • Installation of the storage tank only after completion of the floor coverings • Mounting possibility for expansion tank 25 ltr. • in combination with CEW-2-200 suitable for carcass heights from 2,50m to 2,75m • for fixing the wall units to the floor • Device distance to the floor max. 400mm • Mounting possibility for expansion tank 25 ltr. 	BWL-1S(B)	2484830	H31	265.00

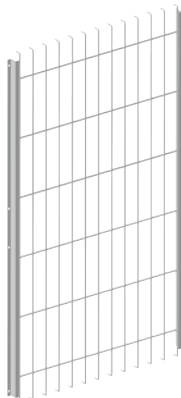




Heat pump accessories

	Description	for product	Art. no.	DG	€
	Floor bracket For attaching the outdoor module, galvanised incl. 4 anti-vibration mounts, height 300mm	BWL-1S(B)	2484747	H31	343.00
	Wall mounting bracket For attaching the outdoor module, galvanised incl. 4 anti-vibration mounts Note: Wall bracket only on walls with high basis weight (>250 kg/m²) can be used. Lightweight construction walls or stud construction are inadmissible.	BWL-1S(B)	2484749	H31	403.00
	CPU-1-50 buffer cylinder Wall-hanging or floor-standing buffer with heat insulation made of PU rigid foam. Operation as a separate or in-line storage tank possible. Operating pressure: 3bar, capacity 50l Connections: 4xG1" AG Weight: 28kg Dimensions: 360×790×356mm WxHxD	BWL-1S(B) CHA-Monoblock	9146529	H45	930.00
	Connection kit for series cylinder For installation of the CPU-1-50 to the right of the BWL-1S(B) indoor unit with integral overflow valve	CPU-1-50 (BWL-1S(B)) CPU-1-50 (CHA)	9146591 9147111	H46 H46	491.00 349.00
	Connection kit for separating cylinder For installation of the CPU-1-50 to the right of the BWL-1S(B) indoor unit	CPU-1-50 (BWL-1S(B)) CPU-1-50 (CHA)	9146592 9147112	H46 H46	258.00 158.00
	Tragegurte bestehend aus: Zwei extrem widerstandsfähigen mehrfach verwendbaren Hebegurten mit verstärkten Schlaufen. Nach EN 1492-1. Material: Polyester, 2-lagig, Länge je 2m, Tragfähigkeit 1000 Kg.	CHA	2486399	H31	87,00






Heat pump accessories

	Description	for product	Art. no.	DG	€
	CEW-2-200 DHW cylinder FOR HEATING CENTRE <ul style="list-style-type: none"> • Can be stacked in combination with BWL-1S(B)-07/10/14 as a heating centre • 75 mm rigid PUR foam thermal insulation for minimum radiation losses • High efficiency smooth tube, dual indirect coil for convenient DHW heating • Sacrificial anode accessible from front, cylinder with special enamel coating on inside • Inspection and cleaning aperture for easy maintenance • Boiler drain and fill valve and sensor well already fitted • Five 1" Rp connections for DHW, cold water, DHW circulation, flow and return <p>Weight: approx. 145 kg Dimensions: 650 × 650 × 1250 mm (W x D x H) Overall height of heating centre 28 mm Operating pressure: 10 bar Cylinder capacity: 180 l</p>	BWL-1S(B)	9146188	H45	3160.00
	Connection kit CEW-2-200 for heating centre To connect the indoor unit and cylinder <p>Consisting of: Push-fit appliance connections with drain and fill valve and corrugated stainless steel pipes with 1" male thread connection for expansion vessel</p>	CEW-2-200	2071878	H46	310.00
	Pipework casing for heating centre With knock-outs for connection on the left and right	CEW-2-200	9146189	H31	120.00
	Retainer for 25 l expansion vessel For fastening to the rear of the indoor module	CEW-2-200	9146217	H31	20.70





Heat pump accessories

	Description	for product	Art. no.	DG	€
	Protective grille To protect the evaporator				
	<ul style="list-style-type: none">• Easy fastening• Powder-coated in appliance colour				
		BWL-1S(B)-10/14 BWL-1S(B)-05/07	2485019 2485039	H31 H31	207.00 207.00
	3-way diverter valve DN32, Rp 1 1/4",24 V, complete				
	Consisting of: Motor for 3-way diverter valve with 4 m connecting cable, 24 VAC/SPST, 3-way mixer DN32, Rp 1 1/4", Kvs 16				
	DN 32 Rp 1 1/4",24V, Kvs 16	BWL-1 / BWS-1 / BWW-1	9146530	H31	188.00
	DN 32 Rp 1 1/4" 230V, Kvs 16	CHA-/BWL-1S(B)-Cascade	9147610	H31	399.00
	DN 40 Rp 1 1/2" 230V, KVS 25	CHA-/BWL-1S(B)-Cascade	9147611	H31	454.00
	DN 50 Rp 2" 230V, Kvs 40	CHA-/BWL-1S(B)-Cascade	9147612	H31	493.00
	3-way diverter valve Heating/cooling 230V As an additional diverter valve, wired to 5 m cable Connections 1" female thread, Kvs = 12	BWL-1S(B)	2745446	H31	161.00
	THREE-WAY SWITCHING VALVE Heating / cooling 230 V wired with cable as additional change-over valve Connections 1 „IG, kvs = 12	CHA, CGB-2-38/55	9146880	H31	215.00
	2-WAY SHUT-OFF VALVE FOR COOLING OPERATION Optional for systems with realised cooling operation Protects the buffer tank from cold flow during cooling operation	Boiler, Heat Pumps, CGB-35/50/-K-40-35	9146879	H31	196.00






Heat pump accessories

	Description	for product	Art. no.	DG	€
	Gravity brake / non-return valve Brass, for installation between appliance flow and low loss header with 2 female threaded connections 1". (Only in conjunction with KM cascade module)		201122899	H40	21.70
	Microbubble separator For removing nitrogen, oxygen and carbon dioxide from the heating system. 1¼" to 3.5 m³/h 1½" up to 5.4 m³/h Note: WOLF recommends a microbubble separator in the heating flow for effective removal of air and microbubbles. To protect the unit and the high-efficiency pump from dirt / sludge and magnetite, install a sludge separator with magnetite separator in the heating return.		2070407 2072251	H40 H40	213.00 235.00
	Thermal insulation For microbubble separator 1¼" / 1½"		1669276	H40	89.00
	Sludge separator Incl. magnetite separator to protect the appliance and the high efficiency heating circuit pump from dirt/sludge and magnetite 1¼" up to 3,5m³/h 1½" up to 5.4 m³/h Note: Please consider the correct installation position in the heating system. Instructions can be found in the installation and operating instructions for the heat pump. For the CHA monobloc, a sludge and magnetite separator must be installed as a functionally necessary accessory.		2071879 2072246	H40 H40	300.00 326.00
	Thermal insulation 1¼" / 1½" For dirt trap Incl. magnetite separator		1669271	H40	93.00





Heat pump accessories

	Description	for product	Art. no.	DG	€
	SLUDGE SEPARATOR, ROTATABLE <ul style="list-style-type: none"> Rotatable version for flexible use on the construction site With extra powerful removable magnet Incl. sludge tap and removable <p>Housing bottom part for easy maintenance To protect the unit and the high-efficiency pump from dirt / sludge and magnetite, a sludge separator with magnetite separator must be installed in the heating return.</p> <p>WOLF recommends a microbubble separator in the heating flow for effective removal of air bubbles and microbubbles.</p>				
	1¼" till 3,5m³/h		2075009	H40	414.00
	1½" to 5,4m³/h		2075010	H40	461.00
	Note: Please consider the correct installation position in the heating system. Instructions can be found in the installation and operating instructions for the heat pump. For the CHA mono-bloc, a sludge and magnetite separator must be installed as a functionally necessary accessory.				
	THERMAL INSULATION for sludge separator (rotatable) incl. magnetite separator				
	1¼"		1669603	H40	91.00
	1½"		1669604	H40	91.00
	Refrigerant lines Made from high quality copper pipe with thermal insulation; temperature resistance up to 120°C				
	10×1mm (insulation thickness 9mm) 10m roll	BWL-1S(B)	2071803	H31	243.00
	10×1mm (insulation thickness 9mm) 25m roll	BWL-1S(B)	2071805	H31	444.00
	16×1mm (insulation thickness 10mm) 10m roll	BWL-1S(B)	2071804	H31	267.00
	16×1mm (insulation thickness 10mm) 10m roll	BWL-1S(B)	2071806	H31	620.00
	6×1mm and 12×1mm, 10m roll	BWL-1S(B)	2072479	H31	334.00
	6×1mm and 12×1mm, 25m roll	BWL-1S(B)	2072480	H31	770.00
	Adhesive tape for refrigerant line To cover components and joints in the refrigerant circuit, self-adhesive, width of roll 50mm, colour: white	BWL-1S(B)	9146477	H31	42.00



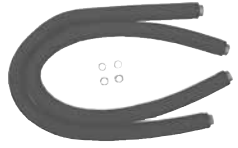
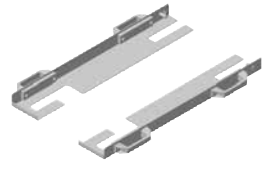

Heat pump accessories


	Description	for product	Art. no.	DG	€
	Euro flanged adaptor connection kit For brazing on refrigerant lines Consisting of: 2 Euro adaptors 5/8" incl. 2 copper gaskets 2 Euro adaptors 7/8" incl. 2 copper gaskets	BWL-1S(B)	2484750	H31	97.00
	Copper sealing ring (5 pce) Substitute for Euro flanged adaptor 5/8" for 10×1mm refrigerant lines 7/8" for 16×1mm refrigerant lines	BWL-1S(B) BWL-1S(B)	2071873 2071874	H31 H31	16.10 23.90
	CONNECTION SET FOR REFRIGERANT LINES for connecting refrigerant lines with flanged connections consisting of: 1 double nipple each with 2 union nuts Diameter: 6 + 12mm Diameter: 10 + 16mm	BWL-1S(B)-05 BWL-1S(B)	2485246 2484705	H31 H31	61.00 60.00
	Drain heater for condensate pan With integrated frost stat For installation in the condensate pan of the outdoor module	BWL-1S(B)	9146214	H31	230.00
	Immersion heater For simple retrofitting to BWL-1SB Fully wired 6 kW	BWL-1SB	274546099	H31	462.00

Heat pump accessories



	Description	for product	Art. no.	DG	€
	<p>CEW-1-200 DHW cylinder can be combined with BWS-1-06/08/10 as a central unit can be combined with BWW-1-07/11 as a central unit with CPM-1-70 as Hydrotower for BWL-1-08/10</p> <p>can be combined with heat insulation of PU hard foam, protective anode accessible from the front, specially enamelled, highly efficient smooth tube heat exchanger with double helix</p> <p>Heat exchanger surface: 2,3m² Operating pressure: 10bar Memory capacity: 180Ltr. Heating connections: G 1½" weight: 147kg</p> <p>Dimensions: 600 × 650 × 1290mm (W x D x H)</p>	BWL-1-08/10, BWS-1-06/08/10, BWW-1-07/10	9145460	H45	2865.00
<p>Neu</p> 	<p>Hydraulic separator up to 18 m³/h consisting of: Square hollow profile 200 × 120 mm and four connecting flanges DN80/PN6, 1/2" vent valve mounted, 2" closing cap mounted, 1/2" immersion sleeve (l=100 mm) mounted, with mounted blind flange plate for opt. installation of a magnetite separator</p>	Cascade CGB-2-75/100 MGK-2 CHA	2075380	H40	1995,00
<p>Neu</p> 	<p>Insulation for hydraulic separator 18 m³/h consisting of: Half shells with cutouts for all nozzles, 65 mm PUR foam in aluminum coarse grain jacket</p>	Hydraulic switch 18 m³/h	2075381	H40	745,00
<p>Neu</p> 	<p>Magnetite separator for hydraulic separator 18 m³/h Blind flange DN100 PN6 with gasket and Magnetite plug 40×160 (D×L)</p>	Hydraulic switch 18 m³/h	2075382	H40	690,00

Heat pump accessories


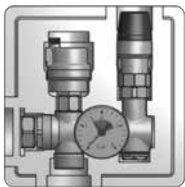
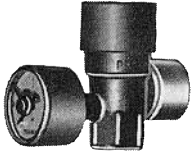



	Description	for product	Art. no.	DG	€
 	CPM-1-70 buffer cylinder CPM-1-70 with CEW-1-200 can be combined as a hydrotower with thermal insulation made of PU rigid foam, operation as a separate storage tank or in-line storage possible, built-in high-efficiency pump (EEI < 0.23) and changeover valve for hot water preparation, incl. 4m connection cable to WPM-1, thermally insulated safety group Operating pressure: 3bar Contents: 70Ltr. connections: G1½" Weight: 62kg Dimensions: 600 × 650 × 740mm (W x D x H)				
	CPM-1-70/7 (7 m pump) CPM-1-70/8 (8 m pump)	BWL-1-08/10 BWL-1-12	9145458 9145459	H45 H45	2295.00 2655.00
	Hose connection kit suitable for hydraulic connection for CEW-1-200 and BWS-1-6/8/10 or BWL-1-07/11 as central unit or CEW-1-200 and CPU-1-70 as Hydrotower. Insulated corrugated stainless steel hoses with screwed union flat sealing 2 x G1½", L = 1400/1950mm	BWL-1 / BWS-1 / BWL-1	2484095	H31	179.00
	Lifting gear Lifting gear for the BWS-1 and the CPM-1. Can be used to lift BWS-1 and CPM-1 onto the CEW cylinder.	BWS-1 / CPM-1-70	9145566	H31	157.00
	Tragegurte Für einfachen Transport der Außeneinheit. (Je Set 4 wiederverwendbare Schlaufen)	CHA	2486399	H40	87.00
	Flange plate DN110 With connection 1½" For electric booster heater E2 or E4.5	CEW-1-200 / CEW-2-200 (only 2,0kW) SEW-1-300/400 SEM-1W-360	2483991	H46	81.00

	Description	for product	Art. no.	DG	€
	Thermometer 	SEW-1-300/400, SEM-1W-360	2039052	H41	29.50
	Pipe assembly for heating circuit consisting of: High-efficiency pump (EEI < 0.20) self-regulating, wired with cable ready to plug in, Ball valves with thermometer in flow and return, gravity brake without overflow valve Design thermal insulation shells made of EPP, group completely assembled, hydraulically and electrically tested Dimensions HxWxD: 384×250×260 DN25: Connection flat at the bottom. 1½" top IG 1" transition screw connection Δp=150 mbar at V=2350 l/h at Δt 10K to 27kW, at Δt 15K to 41kW at Δt 20K to 55kW DN32: Connection flat at the bottom. 1½" top IG1 1¼" Transition screw connection Δp=150 mbar at V=3100 l/h at Δt 10K to 36kW, at Δt 15K to 54kW at Δt 20K to 72kW DN32-60 Note: Flow can be easily switched from left to right.No additional wall retainer required for installation on a manifold.		2072136	H40	980.00





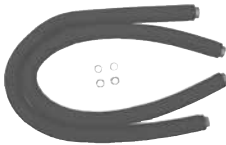
Heat pump accessories

	Description	for product	Art. no.	DG	€
	Verrohrungsgruppe Mischerkreis DN32 consisting of: High-efficiency pump (EEI < 0.20) self-regulating, mounted mixer motor, both wired with cable ready to plug in, drip-proof at zero position, ball valves with thermometer in flow and return, gravity brake without overflow valve Design thermal insulation shells made of EPP, group completely assembled, hydraulically and electrically tested Dimensions HxWxD: 384×250×260 DN25: 3-way brass mixer kvs=10 Connection flat at the bottom. 1½" Above IG 1" transition screw connection, adjustable bypass Δp=150 mbar at V=2200 l/h at Δt 10K to 26kW at Δt 15K to 38kW at Δt 20K to 51kW DN32: 3-way brass mixer kvs=18 Connection flat at the bottom. 1½" top IG1 1¼" Transition screw connection Δp=150 mbar at V=3000 l/h at Δt 10K up to 35kW at Δt 15K to 52kW at Δt 20K to 70kW Note: Flow can be easily switched from left to right. No additional wall retainer required for installation on a manifold. MM-2 mixer module can be integrated.		2072140	H40	1465.00
	 Dirt trap 1½" For the installation in the heating and sole return circuit, casing made of brass, screen made of stainless steel Note: Essential to protect the heat pump.	BWS-1	2484398	H31	58.00

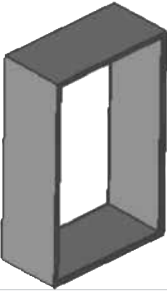
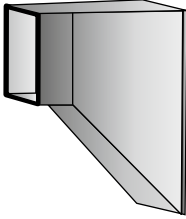


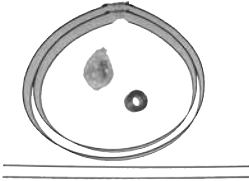
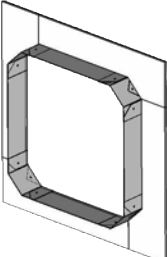
Heat pump accessories

	Description	for product	Art. no.	DG	€
	High efficiency pump (EEI < 0.23) Connection G 1½"; installed length 180mm With push-fit thermal insulation Mains cable with Molex plug (length 4 m) and connecting cable for controller with plug (length 4 m)				
	Wilo Yonos Para 25/7.5 Wilo Stratos Para 25/1-8	BWL-1-08/10 BWL-1-12/14	9145462 9145463	H31 H31	318.00 665.00
	Note: Included in the standard delivery of the CPM-1-70 buffer cylinder.				
	Safety assembly Small distributor with ¾" connection for expansion vessel, for sealed unvented hot water heating systems Consisting of: Safety valve with 3 bar response pressure, pressure gauge, automatic air vent valve with automatic shut-off, fully assembled with diffusion-proof thermal insulation	BWL-1	2071383	H31	88.00
	Note: Included in the standard delivery of the CPM-1-70 buffer cylinder.				
	Safety valve with pressure gauge 3 bar response pressure for sealed unvented hot water heating systems up to 50 kW, connection ½" female thread, discharge ¾" female thread, pressure gauge display range 0-4 bar	BWL-1	240046599	H40	57.00
	Threaded adaptor fitting Freely combinable, 1x flat gasket flange with 1½" union nut and 1x with 1¼" male thread. (1 set = 2 pcs)	BWS-1 / BWW-1, all boilers	2012086	H40	30.80
	Automatic air vent valve With automatic shut-off, connection ½" male thread	All boilers, all heat pumps	2400486	H40	12.80
	Differential pressure overflow valve, right angle version 1" DN25 1" female thread – 1 1/4" male thread Incl. threaded connection Setting range: 50-500 mbar	heat pumps	2072388	H31	164.00





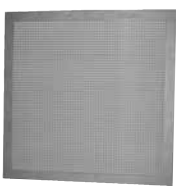

Heat pump accessories

	Description	for product	Art. no.	DG	€
	Expansion vessels For heating systems 1.5 bar pre-charge pressure, 90°C flow temperature				
	25 l for heating systems up to 235 l		2400450	H40	105.00
	35 l for heating systems up to 320 l		2400455	H40	111.00
	50 l for heating systems up to 470 l		2400458	H40	144.00
	80 l for heating systems up to 750 l		2400462	H40	196.00
	100 l for heating systems up to 850 l		2400470	H40	387.00
	140 l for heating systems up to 1210 l		2400471	H40	458.00
	200 l Sizing according to heating system		2400472	H40	550.00
	Connection kit for expansion vessel Consisting of: flexible corrugated stainless steel pipe (1 m long), threaded adaptors suitable for heat generator and expansion vessel.				
	Additionally with cap valve 1" – from 80 l		2012081	H40	203.00
	Additionally with cap valve ¾" – 25-50 l		2012080	H40	144.00
	3-way mixer				
	DN20, Kvs 6.3		2744673	H40	84.00
	DN25, Kvs 10		2744674	H40	91.00
	DN32, Kvs 16		2744675	H40	96.00
	DN40, Kvs 25		2744676	H40	137.00
	DN50, Kvs 40		2744677	H40	140.00
	4-way mixer				
	DN20, kvs 6,3		8908809	H40	109.00
	DN25, kvs 10		8908810	H40	112.00
	DN32, kvs 16		8908811	H40	120.00
	DN40, kvs 25		8908812	H40	170.00
	DN50, kvs 40		8908813	H40	202.00
	Mixer motor 230 V~/50 Hz, 6 Nm For 3-way mixing valve and 4-way mixing valve, fully wired, 120 sec, 90° DN20 - DN50	All boilers, gas heaters, BWL-1/BWS-1/BWW-1	2269715	H40	288.00
	Hose connection kit Suitable for hydraulic connection. Corrugated stainless steel hoses with union nut fittings, flat gasket 2 x G1½", L = 1000mm	BWL-1 / BWS-1 / BWW-1	2484112	H31	136.00



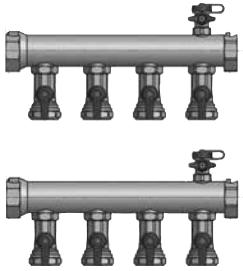

Heat pump accessories

	Description	for product	Art. no.	DG	€
	Straight air duct For air intake directly at the unit, made from glass fibre reinforced concrete (GFRC) with internal insulation of mineral wool, covered with glass fibre mat, thermal and sound insulation, moisture-resistant 1320 × 825 mm, L = 440mm, weight 19 kg	BWL-1	2483982	H31	308.00
	Air duct, intake reducer from 1320 × 825 mm to 600 × 600 mm, For air intake directly at the unit, made from glass fibre reinforced concrete (GFRC) with internal insulation of mineral wool, covered with glass fibre mat, thermal and sound insulation, moisture-resistant, with guiding device for air routing L = 985 mm, weight 25 kg	BWL-1	2484094	H31	870.00
	Air duct sealing tape kit For complete sealing of the air intake and discharge of a heat pump Consisting of: One set of sealing tape for the front and one for the circumference	BWL-1	2484052	H31	78.00
	Flexible air duct With thermal and sound insulation For connection to the heat pump air discharge DN 630 mm with approx. 30 mm thermal insulation. Integral vapour barrier suitable for the temperature range -20 °C to +40 °C. Fire protection to DIN 412-B2, or M1 Length 3 m	BWL-1	2483900	H31	610.00
	Connection kit for flexible air duct For connection to the air discharge of the heat pump for joining and fixing, required if the length of the flexible air duct is > 1 m. Consisting of: 2 fastening tapes, 2 threaded rods M8 (length 1 m), duct tape 50 mm wide, plus fixing and installation material	BWL-1	2484089	H31	135.00
	Flexible air duct connecting frame For on-site connection to a wall outlet incl. fixing materials	BWL-1	9145470	H31	106.00


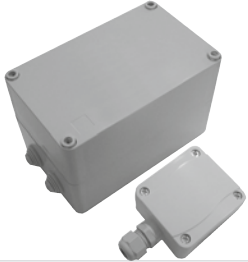

Heat pump accessories

	Description	for product	Art. no.	DG	€
	90° air duct bend, DN 600 × 600 mm For air discharge, made from glass fibre reinforced concrete (GFRC) with internal insulation of mineral wool, covered with glass fibre mat, thermal and sound insulation, moisture-resistant L x W = 1150 × 750 mm, weight 20 kg Note: For air intake, only possible in combination with intake reducer (art.-no. 2484094).	BWL-1	2483979	H31	715.00
	Straight air duct 600 × 600 mm For air discharge, made from glass fibre reinforced concrete (GFRC) with internal insulation of mineral wool, covered with glass fibre mat, thermal and sound insulation, moisture-resistant L = 625mm, Gewicht 15kg L = 1250 mm, weight 28 kg Note: For air intake, only possible in combination with intake reducer (art.-no. 2484094).	BWL-1 BWL-1	2483980 2483981	H31 H31	219.00 441.00
	Air duct connector (plaster tape) For connecting and affixing glass fibre reinforced concrete ducts (GFRC ducts), W = 100mm – 10rolls		2484053	H31	90.00
	Air duct end frame 600 × 600 mm For ducts shortened on site	BWL-1	2483983	H31	32.00
	Air duct protective grille 710 × 710 mm When installing the appliance below ground level Mesh width 12.7 mm, holes 4 × 8 mm	BWL-1	2483265	H31	89.00
	Weatherproofing and protective grille When installing the appliance above ground level 600 × 600 mm for the discharge side for the intake side with reducer 1320 × 825 mm for the intake side without reducer	BWL-1-08/10/12/14 BWL-1-08/10/12/14	2484233 2484255	H31 H31	355.00 510.00






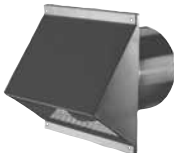

Heat pump accessories

	Description	for product	Art. no.	DG	€
	Sole concentrate For the sole circuit based on monoethylene glycol with high heat absorption capacity and effective anti-corrosion materials. Before filling the system, the concentrate must be mixed with water in a ratio of 1:3.				
	Content: 3 l / weight: 3.4 kg Content: 20 l / weight: 23 kg	BWW-1 BWS-1	2484552 2483422	H31 H31	28.40 191.00
	Sole expansion vessels With fixing materials for wall mounting up to 50 l; 2.5 bar pre-charge pressure				
	12 ltrs. 18 ltrs.	BWS-1 BWS-1	2444210 2444211	H21 H21	87.00 107.00
	Connection kit for expansion vessel For solar and sole up to 25 l Consisting of: Flexible hose (900mm long), cap valve, wall clip		2483076	H21	74.00
	Sole manifold Consisting of: Header for flow and return 2" (female thread), ball valves, one drain and fill valve in the flow and one in the return, gaskets Collector connections: Locking ring fitting for PE pipe with DN32 external diameter				
	Sole distributor brass 3-fold up to 6 kW (PE 32×2.9)	BWS-1-06	2483892	H31	474.00
	Sole distributor brass 4-fold up to 9 kW (PE 32×2.9)	BWS-1-08	2483893	H31	680.00
	Sole distributor brass 6-fold up to 12 kW (PE 32×2.9)	BWS-1-10/12	2483894	H31	945.00
	Sole distributor brass 8-fold up to 16 kW (PE 32×2.9)	BWS-1-12/16	2483899	H31	1190.00
	Hydronic balancing valve For the well circuit				
	DN 25, 10 - 40 l/min		2070934	L50	286.00
	DN 32, 20 - 70 l/min		2070935	L50	352.00
	DN 40, 30 - 120 l/min		2070936	L50	465.00

Heat pump accessories

	Description	for product	Art. no.	DG	€
	BKM cooling module kit for passive cooling Pre-assembled unit consisting of thermally insulated plate heat exchanger and hydraulics, 3-way mixer, wall retainer, ABS casing, fixing kit and flow temperature sensor. Depth: 188 mm Height: 401 mm Width: 498 mm Weight: 15 kg Incl. wall mounting base for BM programming unit, MM mixer module, 3-way diverter valve and one dew point monitor for pipe installation	BWS-1 / BWW-1	9146073	H31	3335.00
	Dew point monitor kit For connection of max. 3 dew point monitors Consisting of: 1 dew point monitor and 1 distributor box	BWL-1S(B)	9146213	H46	525.00
	Taupunktwärter <ul style="list-style-type: none"> • Taupunktüberwachung jedes einzelnen Kühlkreises • Einstellbereich 75 - 100% r.F. Für den direkten Anschluss an: <ul style="list-style-type: none"> • MM-2, KM-2 V2 • Innenmodul CHA • Taupunktwärter-Set (Art. Nr.: 9146213) für BWL-1S(B) 	CHA, BWS-1, BWW-1	9147290	H46	404.00

Heat pump accessories

	Description	for product	Art. no.	DG	€
	Insulated duct Length 2000 mm DN 160	unit size (F/T-)300, unit size 325 SWP	2577362	H36	81.00
	Insulated duct 90° bend DN 160	unit size (F/T-)300, unit size 325 SWP	2577363	H36	29.10
	Insulated duct 45° bend DN 160	unit size (F/T-)300, unit size 325 SWP	2577364	H36	21.70
	Locking ring for insulated duct One locking ring is required for each connection DN 160	ISO pipe	2577365	H36	9.00
	Fastening clip for insulated duct DN 160	ISO pipe	2577405	H36	7.80
	Wall hood DN 160, black (RAL 9005)	unit size (F/T-)300, unit size 325 SWP	2575807	H36	114.00
	Wall hood DN 160, white (RAL 9010)	unit size (F/T-)300, unit size 325 SWP	2575810	H36	114.00

Heat pump accessories

Plate heat exchanger made of stainless steel for system separation incl. insulation hood and base fastening consisting of:

- Plate heat exchanger copper brazed
- mounting set
- ISO insulating hood with aluminum sheet casing with mineral wool insulation and quick fasteners

Design at temperature conditions

- Primary 40°C/33°C
- secondary 35°C/28°C
- max. operating pressure 10bar
- max. operating temperature 110°C



Power TYPEe kW	Height x width m ²	Pressure loss primary / se- secondary kPa	Connections primary / secondary	Art.-No.	DG	€
7	313 × 113	7 / 9	G 1" / G 1"	2071884	H42	485,00
10	313 × 113	7 / 9	G 1" / G 1"	2071885	H42	550,00
20	313 × 113	13 / 14	G 1" / G 1"	2071886	H42	635,00
21	313 × 113	8 / 9	G 1" / G 1"	2071887	H42	690,00
30	313 × 113	11 / 12	G 1" / G 1"	2071888	H42	735,00
40	313 × 113	10 / 11	G 1" / G 1"	2071889	H42	855,00
50	313 × 113	11 / 11	G 1" / G 1"	2071890	H42	990,00

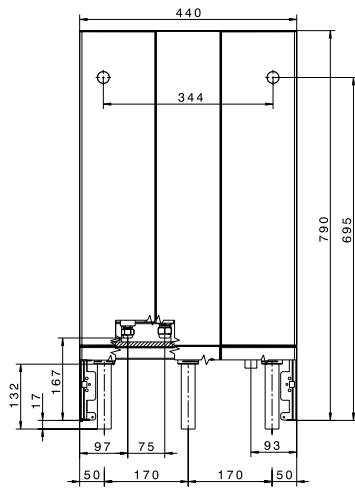
Technical data

Air/Water heat pump

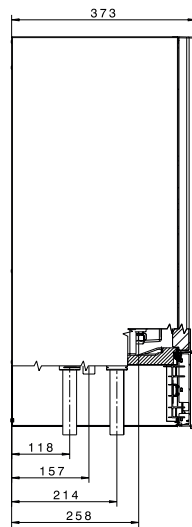
CHA -07/400V

CHA -10/400V

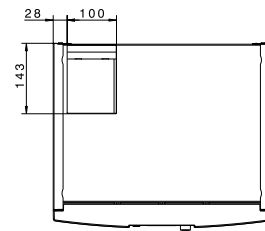
Indoor unit
Front view



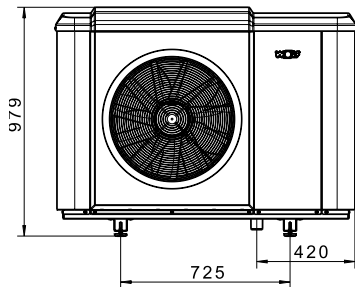
Indoor unit
Side view



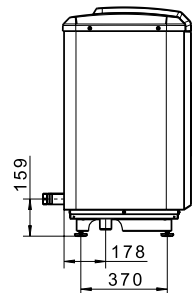
Indoor unit
Top view



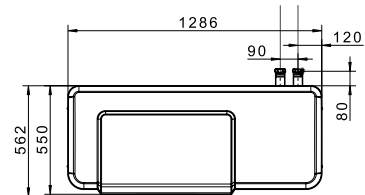
CHA outdoor unit
Front view



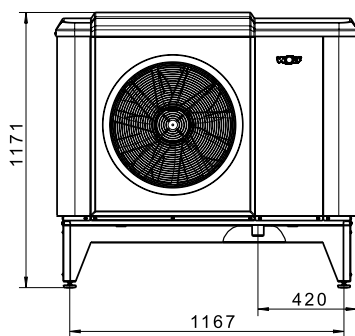
CHA outdoor unit
Side view



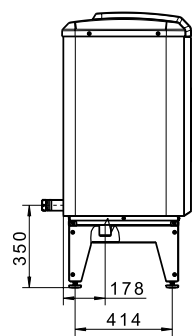
CHA outdoor unit
Top view



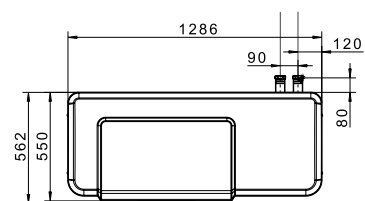
CHA outdoor unit with floor cosole
Front view



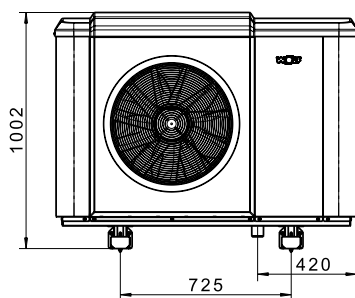
CHA outdoor unit with floor cosole
Side view



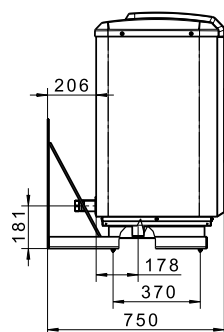
CHA outdoor unit with floor cosole
Top view



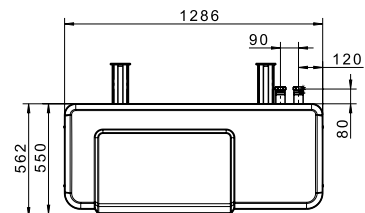
CHA outdoor unit with wall bracket
Front view



CHA outdoor unit with wall bracket
Side view



CHA outdoor unit with wall bracket
Top view



Technical data

Air/Water heat pump
CHA -07/400V
CHA -10/400V

TYPE	CHA	07/400	10/400V
Dimensions / Weight			
Width x height x depth outdoor unit	mm	1286 × 979 × 562	
Width x height x depth indoor unit	mm	440 × 790 × 340	
Weight outdoor unit	kg	152	162
Weight indoor unit	kg	27	27
Technical data			
Refrigeration circuit			
RefrigerantTYPE / GWP	- / -	R290 / 3	R290 / 3
Filling quantity / CO2 eq	kg / t	3,1 / 0,009	3,4 / 0,010
Refrigerating machine oil		PZ46M	PZ46M
Filling quantity refrigerating machine oil	ml	900	900
Compressor TYPE / Quantity		Scroll / 1	Scroll / 1
Heating capacity / COP			
A2/W35 nominal capacity according to EN14511	kW / -	5,15 / 4,54	5,75 / 4,65
A7/W35 Nominal capacity according to EN14511	kW / -	4,50 / 5,47	4,10 / 5,72
A-7/W35 Nominal capacity according to EN 14511	kW / -	5,88 / 2,73	7,95 / 2,88
Capacity range at			
A2/W35	kW	1,9 - 7,0	3,0-10,0
A7/W35	kW	2,2 - 7,0	3,5-10,0
A-7/W35	kW	1,6 - 6,8	2,2-9,8
Seasonal space heating energy efficiency / heat rating at average climate conditions according to EU 811/2013			
$\eta_s (35^\circ\text{C})^* / P_{\text{rated}}$	%/kW	194 / 6	191 / 8
$\eta_s (55^\circ\text{C})^* / P_{\text{rated}}$	%/kW	148 / 6	141 / 8
Cooling capacity / EER			
A35/W18 Rated power according to EN14511	kW / -	5,01 / 5,83	6,01 / 5,92
A35/W7 Rated power according to EN14511	kW / -	3,43 / 3,86	4,81 / 4,04
Power range for A35/W18	kW / -	2,3 - 7,0	4,3 - 10,0
Capacity range at A35/W7	kW / -	1,9 - 6,5	3,1 - 8,3
Sound outdoor unit A7/W55 (based on EN 12102/ EN ISO 9614-2)			
Sound power level at nominal heat output (ErP)	dB(A)	52	53
Sound power level day max.	dB(A)	58	60
Sound power level in reduced night mode	dB(A)	49	51
Sound pressure level in reduced night mode (at a distance of 3 m, free-standing)	dB(A)	32	34
Operating limits			
Temperature Operating limits			
Heating operation	°C	+15 to +70	+15 to +70
Cooling mode	°C	+7 to +30	+7 to +30
maximum heating water temperature with electric heating element	°C	75	75
Temperature operating limits air			
Heating mode	°C	-22 to +40	-22 to +40
Cooling mode	°C	+10 to +45	+10 to +45
Heating water			
Minimum flow rate for defrosting	l/min	27	27
Residual head at minimum flow rate for defrosting	mbar	610	530
maximum operating pressure	bar	3	3
Heat source			
Air flow rate at nominal operating point	m³ / h	3300	3500
Connections			
Indoor unit: flow from outdoor unit, heating flow, WW flow	mm	28×1	28×1

Technical data

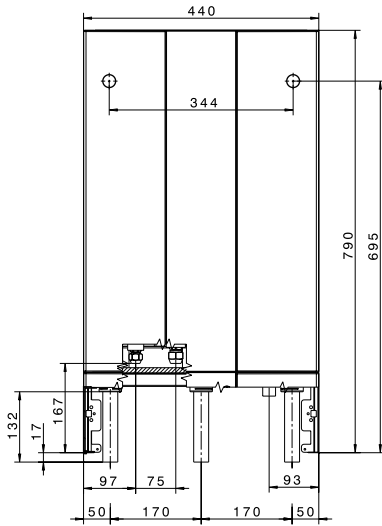
Air/Water heat pump
CHA -07/400V
CHA -10/400V

TYPE	CHA	07/400	10/400V
Technical data			
Outdoor unit:			
Flow, return	G(IG)	1 1/4" IG	5/4" IG
Condensate water connection	DN	50	50
Electrical system outdoor unit (ODU)			
Control unit (ODU)			
Electrical connection		1~NPE, 230VAC, 50Hz / 16A(B)	1~NPE, 230VAC, 50Hz / 16A(B)
Max. Current consumption	A	2,8	2,8
Inverter (ODU)			
Electrical connection		see electrics indoor unit (IDU)	
Max. Power consumption standby	W	13	13
Max. Power consumption compressor 2) within operating limits	kW	4,8	5,75
Max. Compressor current within operating limits	A	8	9,5
Max. Number of compressor starts per hour	1/h	6	6
Protection class		IP 24	IP 24
Electrical system Indoor unit (IDU)			
Control unit (IDU)			
Electrical connection		1~NPE, 230VAC, 50Hz / 16A(B)	
Max. Current consumption	A	6,5	6,5
Inverter (ODU) + electric heater (IDU)			
Electrical connection		3~NPE, 400VAC, 50Hz / 20A(B)	3~NPE, 400VAC, 50Hz / 20A(B)
Max. Power consumption E-heater	kW	9	9
Max. Power consumption heating circuit pump	W	3 - 75	3 - 75
Max. Standby power consumption	W	2	2
Max. Power consumption electric heater (9 kW)	A	13 (400VAC)	13 (400VAC)
Max. Power consumption			
Protection class		IP 20	IP 21

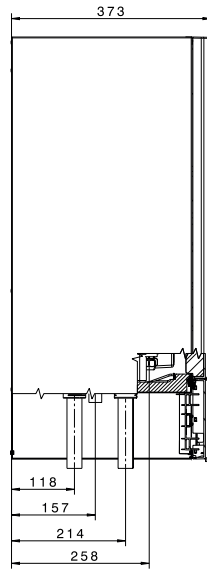
Technical data

Air/Water heat pump
BWL-15(B)-05/230V
BWL-15(B)-07/230V
BWL-15(B)-10/400V
BWL-15(B)-14/400V
BWL-15(B)-16/400V

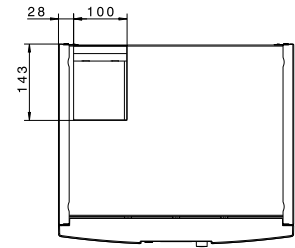
Indoor unit
Front view



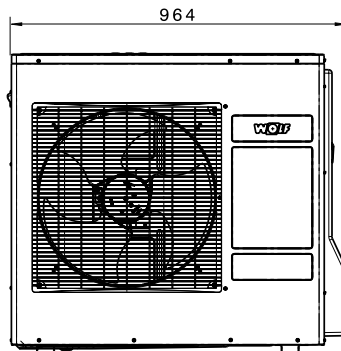
Indoor unit
Side view



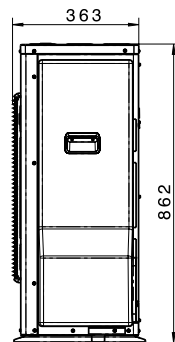
Indoor unit
Top view



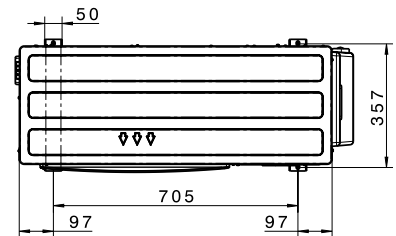
Außeneinheit BWL-1S[B]-05/07
Vorderansicht



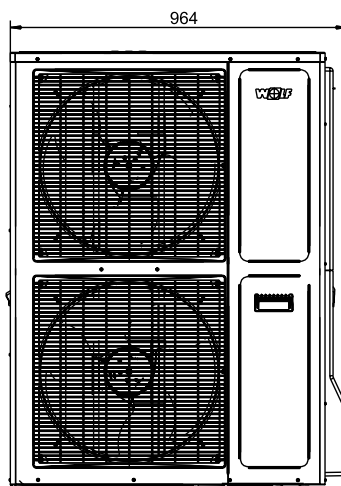
Outdoor unit BWL-1S[B]-05/07
Front view



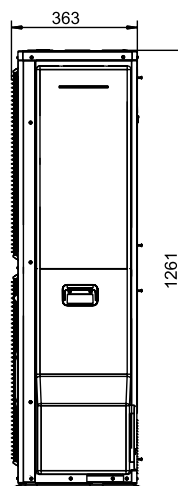
Outdoor unit BWL-1S[B]
Top view



Außeneinheit BWL-1S[B]-10/14/16
Front view



Außeneinheit BWL-1S[B]-10/14/16
Side view



Technical data

Air/Water heat pump
BWL-1S(B)-05/230V
BWL-1S(B)-07/230V
BWL-1S(B)-10/400V
BWL-1S(B)-14/400V
BWL-1S(B)-16/400V

TYPE	BWL-1S(B)	05/230V	07/230V	10/400V	14/400V	16/400V
Dimensions / Weight						
Width x height x depth outdoor unit (incl. feet, incl. front doors)	mm	964 × 1261 × 363				
Width x height x depth Indoor unit (incl. feet, incl. front doors)	mm	440 × 790 × 340				
Weight outdoor unit / indoor unit	kg	66 / 33	66 / 33	110 / 33	110 / 35	110 / 37
Technical data						
Refrigeration circuit		33	33	33	33	33
RefrigerantTYPE / GWP		R410A/2088	R410A/2088	R410A/2088	R410A/2088	R410A/2088
charge / CO ₂ eq	kg / t	2,15 / 4,49	2,15 / 4,49	2,95 / 6,16	2,95 / 6,16	3,5 / 7,31
maximum refrigerant line length	m	25	25	25	25	25
Refrigerant quantity to be refilled for line length >12m - 25m	g/m	60	60	60	60	60
Refrigerant oil / charge quantity	- / ml	FV68S/650	FV68S / 650	POE / 1100	POE / 1100	POE / 1100
compressor - TYPE		Rollkolben	Rollkolben	Doppelrollkolben	Doppelrollkolben	Doppelrollkolben
maximum operating pressure	bar	43	43	43	43	43
Heating capacity / COP according to EN14511						
A2/W35 nominal capacity	kW / -	3,4 / 3,7	5,0 / 3,5	7,6 / 3,8	8,8 / 3,8	11,0 / 3,3
A7/W35 Nominal capacity	kW / -	5,2 / 4,9	7,3 / 4,8	10,2 / 4,8	12,1 / 4,8	13,8 / 3,6
A-7/W35 Max. Power	kW / -	5,1 / 2,9	6,2 / 2,7	8,1 / 2,7	8,7 / 2,7	10,9 / 2,4
Power range at A2/W35	kW	1,9 - 6,6	1,9 - 8,8	2,9 - 10,6	3,1 - 12,4	3,5 - 12,2
Power range at A7/W35	kW	2,1 - 6,9	2,3 - 9,1	5,6 - 12,2	5,6 - 13,5	5,9 - 14,0
Seasonal space heating energy efficiency / Nominal heat output under average climatic conditions according to EU 811/2013						
η _s (35°C)* / P _{rated}	%/kW	168/6	180/7	195/10	178/12	172/12
η _s (55°C)* / P _{rated}	%/kW	115/5	133/6	130/11	131/12	125/15
Cooling capacity / EER according to EN14511						
A35/W7 nominal power	kW / -	4,5 / 2,5	7,6 / 2,7	8,8 / 2,7	10,7 / 2,5	11,7 / 2,1
A35/W18 nominal capacity	kW / -	6,1 / 3,5	9,0 / 3,8	8,7 / 4,1	12,0 / 3,4	13,0 / 2,5
Compressor capacity range for A35/W18	kW	1,6 - 6,9	2,9 - 9,6	3,1 - 11,0	3,2 - 13,2	4,5 - 14,3
Sound outdoor unit						
Sound power level (based on EN 12102/EN ISO 9614-2) for A7/W55 at nominal heat output	dB(A)	59	61	61	63	64
max. sound power level	dB(A)	61	63	64	65	66
max. sound power level with reduced after-run	dB(A)	56	56	57	57	57
Operating limits						
Temperature operating limits heating mode	°C	+20to+55	+20to+55	+20to+55	+20to+55	+20to+55
Temperature operating limits cooling mode	°C	+7to+20	+7to+20	+7to+20	+7to+20	+7to+20
max. heating water temperature with electric heating	°C	75	75	75	75	75
Temperature operating limits air heating mode min/max	°C	-20 / +35	-20 / +35	-20 / +35	-20 / +35	-20 / +35
Temperature operating limits air cooling mode min/max	°C	+10 / +45	+10 / +45	+10 / +45	+10 / +45	+10 / +45
Heating water						
Minimum volume flow	l / min	15	15	21	25	25
Water flow rate nominal (5K)	l / min	16	19,7	28,8	34,1	40,2
Water flow rate maximum (4K)	l / min	24,7	24,7	36	42,7	49,2
Pressure drop heat pump at nominal (5K)	mbar	54	78	121	141	194
Residual head at nominal	mbar	540	490	550	460	310
water flow rate	bar	3	3	3	3	3

Technical data

Air/Water heat pump
 BWL-15(B)-05/230V
 BWL-15(B)-07/230V
 BWL-15(B)-10/400V
 BWL-15(B)-14/400V
 BWL-15(B)-16/400V

TYPE	BWL-15(B)	05/230V	07/230V	10/400V	14/400V	16/400V
Technical data						
Heat source						
Air flow rate at nominal operating point	m ³ / h	2600	2600	3500	4200	4200
Connections						
Connection HZ flow / return / hot water flow	mm	28×1	28×1	28×1	28×1	28×1
Connection refrigerant lines	UNF	7/16 + 3/4	5/8 + 7/8	5/8 + 7/8	5/8 + 7/8	5/8 + 7/8
Dimension refrigerant lines	mm	6×1 + 12×1	10×1 + 16×1	10×1 + 16×1	10×1 + 16×1	10×1 + 16×1
Dimension condensate water line	mm	16	16	16	16	16
Outdoor unit						
Electrics outdoor unit		1~NPE, 230VAC, 50Hz / 20A(C)		3~NPE, 400VAC, 50Hz / 20A(C)		
Mains connection / fuse protection outdoor unit	W	57	57	70	102	102
max. power consumption fans	W	9	9	21	21	21
Power consumption standby	kW	3,6	3,6	5	6,3	6,3
max. compressor power consumption within the operating limits	A	16	16	8	10	10
max. compressor current within the operating limits	A	10	10	10	10	10
Compressor starting current	A	25	25	16	16	16
Starting current compressor with locked rotor	A	35	35	30	30	30
Inrush current (charging of DC capacitors)		IP 24	IP 24	IP 24	IP 24	IP 24
Protection class outdoor unit	1/h	6	6	6	6	6
Electrical system indoor unit						
Mains connection / fuse protection Heating element		Optional 3~PE, 400VAC, 50Hz / 16A(B) or 1~NPE, 230VAC, 50Hz / 32A(B)				
Mains connection / fuse protection Control voltage		1~NPE, 230VAC, 50Hz / 16A(B)				
Power consumption electric heater	kW	2 / 4 / 6				
Power consumption pump	W	3 - 45	3 - 45	3-75	3-75	3-75
Power consumption standby	W	5	5	5	5	5
Maximum power consumption E-heating (6 kW)1)	A	8,7 (400VAC) / 26,1 (230VAC)				
Protection class indoor unit		IP 20	IP 20	IP 20	IP 20	IP 20

¹⁾ For BWL-15B as accessories

Technical data

Air/Water heat pump
BWL-15B-14/230
BWL-15B-10/230

TYPE	BWL-1S(B)	10/230V	14/230V
Technical data			
Width x height x depth outdoor unit (incl. feet, incl. front doors)	mm	964 × 1261 × 363	
Width x height x depth Indoor unit (incl. feet, incl. front doors)	mm	440 × 790 × 340	
Weight outdoor unit / indoor unit	kg	110 / 30	110 / 32
Refrigeration circuit			
RefrigerantTYPE / GWP	- / -	R410A / 2088	R410A / 2088
charge / CO2 eq	kg / t	2,95 / 6,16	2,95 / 6,16
maximum refrigerant line length	m	25	25
Refrigerant quantity to be refilled for line length >12m - 25m	g/m	60	60
Refrigerant oil		FV50S	FV50S
Refrigerant oil charge	ml	1700	1700
Compressor - TYPE		Scroll	Scroll
maximum operating pressure	bar	43	43
Heating capacity / COP according to EN14511			
A2/W35 nominal capacity	kW / -	7,7 / 3,5	9,6 / 3,3
A7/W35 Nominal capacity	kW / -	11,1 / 4,7	14,1 / 4,3
A-7/W35 Max. Power	kW / -	7,7 / 2,5	9,5 / 2,5
Power range at A2/W35	kW	3,6 - 9,5	3,6 - 10,9
Power range at A7/W35	kW	2,5 - 8,4	2,5 - 9,9
Seasonal space heating energy efficiency / heat rating at average climate conditions according to EU 811/2013			
η _s (35°C)* / P _{rated}	%/kW	150/10	150/12
η _s (55°C)* / P _{rated}	%/kW	111/10	111/11
Cooling capacity / EER according to EN14511			
A35/W7 nominal power	kW / -	6,6 / 2,7	8,2 / 2,5
A35/W18 nominal capacity	kW / -	8,5 / 3,4	10,1 / 2,9
Compressor capacity range for A35/W18	kW	4,9 - 11,2	4,9 - 12,9
Sound outdoor unit			
Sound power level (based on EN 12102/ENISO 9614-2) for A7/W55 at nominal heat output	dB(A)	63	63
max. sound power level	dB(A)	65	64
Max. sound power level with reduced post operation	dB(A)	58	58
Operating limits			
Temperature operating limits heating mode	°C	+20 to +55	+20 to +55
Temperature operating limits cooling mode	°C	+7 to +20	+7 to +20
maximum heating water temperature with additional electric heating	°C	75	75
Temperature operating limits air heating mode min/max	°C	-15 / +35	-15 / +35
Temperature operating limits air cooling mode min/max	°C	+10 / +45	+10 / +45
Heating water			
Minimum volume flow	l / min	21	25
Water flow rate nominal (5K)	l / min	31,8	40,4
Water flow rate maximum (4K)	l / min	39,8	50,6
Pressure drop heat pump at nominal (5K)	mbar	126	175
Residual head at nominal	mbar	530	340
Water volume flow			
Maximum operating pressure	bar	3	3

Technical data

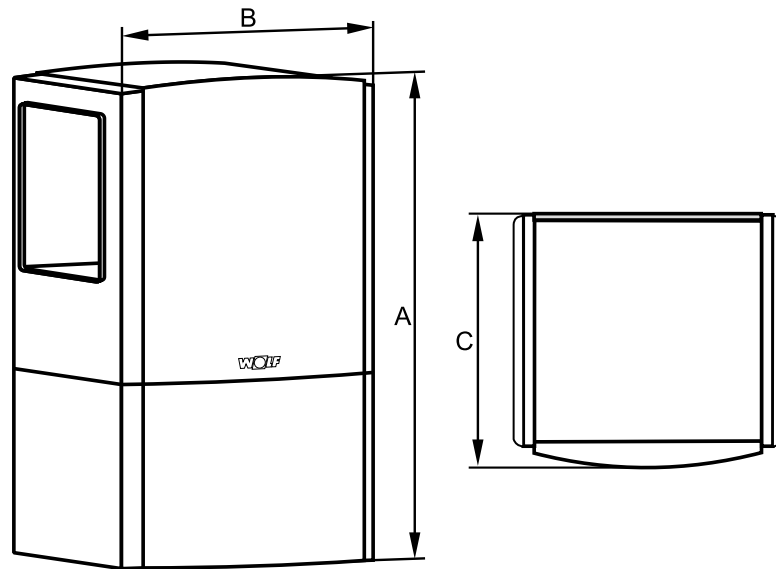
Air/Water heat pump
BWL-1SB-14/230
BWL-1SB-10/230

TYPE	BWL-1S(B)	10/230V	14/230V
Technical data			
Heat source			
Air volume flow at nominal operating point	m ³ / h	3800	3800
Connections			
Connection heating flow / return / Hot water flow	mm	28×1	28×1
Connection refrigerant lines	UNF	5/8 + 7/8	5/8 + 7/8
Dimension refrigerant lines	mm	10×1 + 16×1	10×1 + 16×1
Dimension condensate water pipe	mm	16	16
Outdoor unit			
Electrical system outdoor unit			
Mains connection / fuse protection outdoor unit		1~NPE, 230VAC, 50Hz / 25A (C)	
Power consumption standby		21	21
Power / current / cosp at A7/W35		2,28 / 10,1 / 0,98	3,27 / 14,5 / 0,98
max. power consumption compressor current / cosp within the operating limits		5,4 / 24 / 0,92	6,4 / 28 / 0,92
Starting current compressor	A	10	10
Starting current compressor with locked rotor	A	25	32
Inrush current (charging of DC capacitors)	A	30	30
Protection class outdoor unit		IP 24	IP 24
Maximum number of compressor starts per hour	1/h	6	6
Electricity indoor unit			
Mains connection / fuse protection Heating element 1)		Wahlweise 3~PE, 400VAC, 50Hz / 16A(B) oder 1~NPE, 230VAC, 50Hz / 32A(B)	
Mains connection / fuse protection Control voltage		1~NPE, 230VAC, 50Hz / 16A(B)	
Power consumption electric heater 1)	kW	2 / 4 / 6	2 / 4 / 6
Power consumption pump	W	3 - 75	3 - 75
Power consumption standby	W	5	5
Maximum power consumption E-heating (6 kW) 1)	A	8,7 (400VAC) / 26,1 (230VAC)	
Protection class indoor unit		IP 20	

¹⁾ For BWL-1SB as accessories

Technical data

Air/Water heat pump
BWL-1-I-08/10/12/14



BWL-1-I

TYPE		BWL-1-I	08	10	12	14
Dimensions						
Total height	A	mm	1665	1665	1665	1665
Overall width	B	mm	985	985	985	985
Total depth	C	mm	810	810	810	810
Heating flow / Heating return / Connection		G (IG)	1½"	1½"	1½"	1½"
Free cross-section air ducts		mm	550×550	550×550	550×550	550×550
Weight						
Weight unit		kg	217	242	244	255

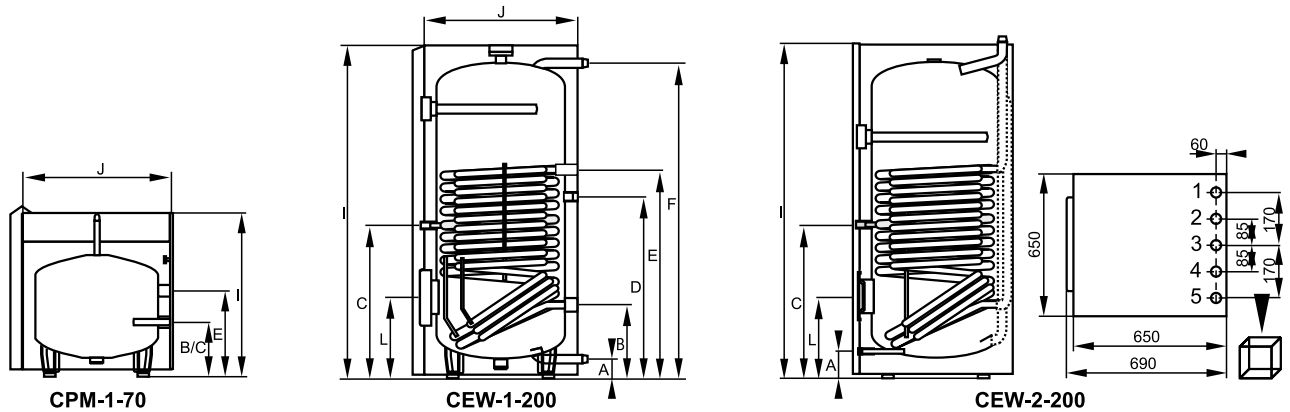
Technical data

Air/Water heat pump BWL-1-I-08/10/12/14

TYPE	BWL-1-I	08	10	12	14
Technical data					
Heating capacity / COP according to EN14511					
A2/W35	kW / -	8,4 / 3,8	9,6 / 3,7	11,7 / 3,7	13,5 / 3,6
A7/W35	kW / -	8,7 / 4,5	9,8 / 4,4	11,9 / 4,3	13,6 / 4,2
A7/W45	kW / -	10,4 / 3,7	11,7 / 3,6	14,4 / 3,5	13,0 / 3,3
A-7/W35	kW / -	7,5 / 3,3	8,5 / 3,2	10,4 / 3,1	11,3 / 3,0
Seasonal space heating energy efficiency / heat rating at average climate conditions according to EU 811/2013					
$\eta_s (35^\circ\text{C})^* / P_{\text{rated}}$	%/kW	154 / 11	135 / 13	153 / 14	162 / 17
$\eta_s (55^\circ\text{C})^* / P_{\text{rated}}$	%/kW	112 / 8	110 / 13	111 / 13	114 / 17
Sound power level	dB(A)	50	50	52	55
Sound pressure level inside at 1m distance	dB(A)	46	46	48	50
averaged around the heat pump (in the installation room)	bar	3	3	3	3
Maximum operating pressure heating circuit	°C	+20 to +63	+20 to +63	+20 to +63	+20 to +63
Temperature operating limits heating water	°C	55	55	55	55
Max. temperature heating water at -7° outdoor temp.	°C	-25 to +40	-25 to +40	-25 to +40	-25 to +40
Temperature Operating limits air °C	- / -	R407C / 1774	R407C / 1774	R407C / 1774	R407C / 1774
Filling capacity / CO ₂ eq	kg / t	3,4/6,03	4,4/7,81	4,5/7,98	5,1/9,05
Maximum operating pressure refrigerant circuit	bar	30	30	30	30
Refrigerant oil		FV50S	FV50S	FV50S	FV50S
Water flow rate minimum (7K) / nominal (5K) / maximum (4K) 1)	Ltr./min	23/32/40	25,5/35,6/44,6	30,9/43,2/54,2	35,6/50/62,3
Pressure drop heat pump at nominal water flow rate	mbar	110	124	165	240
Air flow rate at maximum external pressure at A2/W35 according to EN 14511	m³/h	3200	3200	3400	3800
Maximum external pressure (adjustable)	Pa	20 - 50	20 - 50	20 - 50	20 - 50
Power E-heating 3 phases 400V	kW	1 to 6	1 to 6	1 to 6	1 to 8
Maximum power consumption E-heating	A	9,6	9,6	9,6	12,8
Maximum power consumption / Compressor current within operating limits	kW / A	3,92 / 7,3	4,56 / 8,0	5,59 / 10,0	6,46 / 11,6
Power consumption / current consumption / cos φ at A2/W35 according to EN14511	kW / A / -	2,21/4,5/0,71	2,59/4,7/0,80	3,16/5,9/0,77	3,75/6,9/0,78
Starting current (soft start)	A	26	31	37	39
Maximum number of compressor starts per hour.	1/h	3	3	3	3
TYPE. Power consumption BWL-1 in standby LP (Low Power)	W	5,8	5,8	5,8	5,8
Protection class	IP	IP24	IP24	IP24	IP24
Electrical connection / fuse protection (all-pole disconnection)					
Compressor		3~ PE / 400VAC / 50Hz / 10A(C)		3~ PE / 400VAC / 50Hz / 16 A(C)	
E-heating		3~ PE / 400VAC / 50Hz / 10A(B)			3~ PE / 400VAC / 50Hz / 16 A(B)
Control voltage		1~ NPE / 230VAC / 50Hz / 10A(B)			

Technical data

BUFFER TANK
 CPM-1-70/7 - 70/8
 HOT WATER TANK
 CEW-1-200, CEW-2-200



1 Split heat pump indoor unit - return / 2 Hot water / 3 Hot water - circulation
 4 Cold water / 5 Split heat pump indoor unit - flow

TYPE		CPM-1 CEW	70/7	70/8	- 1-200	- 2-200
Dimensions						
Cold water connection	A	mm	-	-	90	-
Heating return	B	mm	225	225	222	-
Storage tank sensor heating	C	mm	225	225	590	472
Circulation	D	mm	-	-	697	-
Flow heating	E	mm	352	352	797	-
Hot water connection	F	mm	-	-	1194	-
Total height	I	mm	740	740	1290	1290
Diameter with insulation	J	mm	600	600	600	-
Housing width / depth		mm	600 x 650	600 x 650	600 x 650	650 x 690
Maintenance flange	L	mm	-	-	324	322
Tilt dimension		mm	925	925	1395	1410
Weight						
Weight unit		kg	61	62	147	145

Technical data

Buffer tank
CPM-1-70/7 - 70/8
Hot water tank
CEW-1-200, CEW-2-200

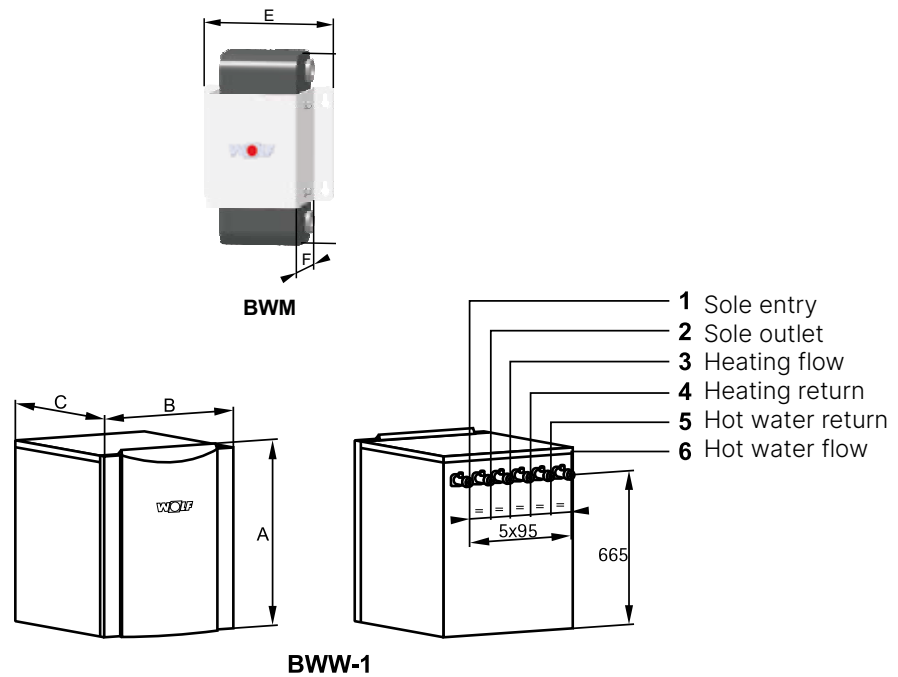
TYPE	CPM-1 CEW	70/7	70/8	- 1-200	- 2-200
Technical data					
Storage capacity	Ltr.	70	70	180	180
Standby heat consumption	kWh/24h	0,89	0,89	1,5	1,21
Storage tank continuous output tv 80/60°C - tww 10/45°C	kW - Ltr./h	-	-	20/490	20/490
Performance index (heating)	NL60	-	-	2,9	3
Performance index (heating)	NL50	-	-	1,4	1,6
Heating time 10kW - 10-50°C	min	-	-	59	60
Hot water tapping rate at 40°C (TSP=55°C, 15 ltr./min)	Ltr.	-	-	191	191
Primary hot water	bar/°C	3/95	3/95	3/95	3/95
Secondary hot water	bar/°C	-	-	10/95	10/95
Flange inner diameter	mm	-	-	DN 110	DN 110
Cold water connection		-	-	G1"	G1"
Return heating		G1½" AG	G1½" AG	G1½" AG	R1"
Circulation		-	-	G¾" AG	G1"
Flow heating		G1½" AG	G1½" AG	G1½" AG	R1"
Hot water connection		-	-	G1"	G1"
Protective anode		-	-	G1¼" IG	G1¼" IG
Additional electric heating		-	-	G1½" IG	-
Immersion sleeve Storage tank sensor (mounted)		½" IG	G½" IG	G1½" IG	G½" IG
Heat exchanger surface heating	m²	-	-	2,3	2,3
Heat exchanger capacity heating	Ltr.	-	-	17	17
Pump TYPE		Wilo Yonos Para 25/7,5 HE-Pumpe (EEI < 0,23)	Wilo Stratos Para 25/1-8 HE-Pumpe (EEI < 0,23)	-	-

Buffer tank
CPU-1-150

TYPE	CPU-1	150
Technical data		
Energy efficiency class		A
Storage capacity	Ltr.	50
Dimensions with cladding		
Width	mm	360
Height	mm	790
Depth	mm	356
Operating pressure	bar	3
Connections	G(AG)	4 × 1"
Weight	kg	28

Technical data

Water/water heat pump
BWW-1-07/11/13/15/21



TYPE		BWW-1	07	11	13	15	21
Dimensions							
Total height BWS-1	A	mm	740	740	740	740	740
Total width BWS-1	B	mm	600	600	600	600	600
Total depth BWS-1	C	mm	650	650	650	650	650
Total height BWM	D	mm	355	355	355	545	545
Total width BWM	E	mm	245	245	245	245	245
Total depth BWM	F	mm	200	200	200	200	200
Heating supply/return Hot water supply/return Sole inlet/outlet at BWM-1		G (AG)	1½"	1½"	1½"	1½"	1½"
Connections at BWM		G (AG)	1¼"	1¼"	1¼"	1¼"	1¼"
Weight							
Weight		kg	152	156	160	184	189

Technical data

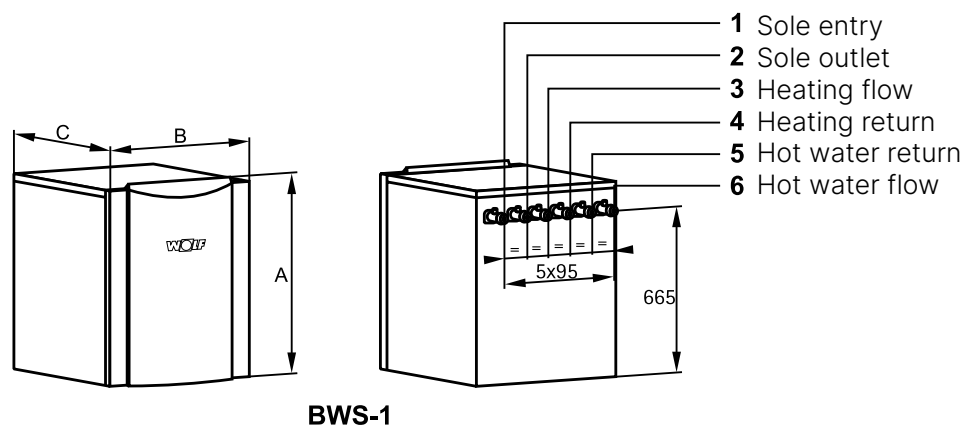
Water/water heat pump BWW-1-07/11/13/15/21

TYPE	BWW-1	07	11	13	15	21
Technical data						
consisting of:		BWS-1-06 + BWM-S	BWS-1-08 + BWM-S	BWS-1-10 + BWM-S	BWS-1-12 + BWM-L	BWS-1-16 + BWM-L
Heating capacity / COP according to EN14511						
W10/W35	kW / -	7,1 / 5,4	10,5 / 5,6	13,3 / 5,6	15,0 / 5,5	20,8 / 5,5
W10/W45	kW / -	6,9 / 4,2	10,0 / 4,4	12,2 / 4,3	14,0 / 4,3	19,3 / 4,3
W10/W55	kW / -	6,2 / 3,2	9,3 / 3,3	11,5 / 3,2	13,5 / 3,3	17,0 / 3,3
Seasonal space heating energy efficiency / heat rating at average climate conditions according to EU 811/2013						
η_s (35°C)* / P_{rated}	%/kW	184/7	194/11	193/13	193/15	191/21
η_s (55°C)* / P_{rated}	%/kW	129/6	135/9	134/12	136/14	134/17
Sound power level	dB(A)	41	42	42	43	43
Sound pressure level at 1m distance averaged around the heat pump (in the room)	dB(A)	39	40	40	41	41
Max. Operating pressure heating circuit / sole circuit / well circuit	bar	3 / 3 / 3				
Temperature operating limits heating water	°C	+20 to +63				
Temperature operating limits well water	°C	+7 to +22				
Refrigerant TYPE / GWP (refrigerant circuit hermetically closed)		R407C / 1774	R407C / 1774	R407C / 1774	R407C / 1774	R407C / 1774
Filling quantity / CO ₂ eq	kg / t-	1,8/3,19	2,0/3,55	2,25/3,99	2,8/4,97	3,15/5,50
Maximum operating pressure refrigerant circuit	bar	30	30	30	30	30
Refrigerant		FV50S	FV50S	FV50S	FV50S	FV50S
Volume sole in BWS-1 with BWM	Ltr.	4,7	5,2	5,7	7,3	7,8
Heating water volume flow minimum (7K) / nominal (5K) / maximum (4K) 1)	Ltr./min	14,6/20,3 / 25,4	21,4/30,1 / 37,6	27,3/38,1 / 47,6	30,7/43,0 / 53,7	42,6/59,6 / 74,5
Residual head at dT 5K	mbar	530	430	340	420	150
3-way valve for hot water charging circuit		integrated	integrated	integrated	integrated	integrated
High-efficiency pump (EEI < 0.23) Heating circuit		Wilo YonosPara 25/7,5			Wilo Stratos Para 25/1-8	
Residual head for sole circuit piping (at volume flow in ltr./min)	mbar	160 (42)	200 (42)	210 (42)	140 (58)	140 (58)
Minimum sole concentration / frost protection up to	% / °C	25 / -13	25 / -13	25 / -13	25 / -13	25 / -13
High-efficiency pump (EEI < 0.23) Sole circuit		Wilo Stratos Para GT 25/1-7			Wilo Stratos Para 25/1-8	
Maximum power consumption / compressor current within the operating limits	kW / A	2,89 / 4,2	3,2 / 5,8	3,85 / 7,0	4,71 / 8,4	6,53 / 11,7
Power consumption / current consumption/ cosp at W10/W35, without well pump	kW / A / -	1,26/2,5/0,72	1,85/3,2/0,80	2,3/4,4/0,76	2,55/4,6/0,79	3,65/6,9/0,76
Power consumption of the heating circuit pump at nominal flow rate	W	45	55	60	100	110
Power consumption of the sole pump at nominal flow rate	W	55	60	65	110	120
Starting current direct / soft start	A	27 / -	- / 21	- / 26	- / 31	- / 39
Compressor starts max.	1/h	3	3	3	3	3
TYPE. Power consumption BWW-1 in standby LP (Low Power)	W	5,8	5,8	5,8	5,8	5,8
Protection class	IP	IP20	IP20	IP20	IP20	IP20
Electrical connection / fuse protection (all-pole disconnection) Compressor		3~ PE / 400VAC / 50Hz / 10A(C)				
E-heating		3~ PE / 400VAC / 50Hz / 10A(B)				
Control voltage		1~ NPE / 230VAC / 50Hz / 10A(B)				

¹⁾ To ensure high energy efficiency of the heat pump, the nominal volume flow should not be undercut. The data given in this table apply to an uncontaminated heat exchanger

Technical data

Sole/water heat pump
BWS-1-06/08/10/12/16



TYPE		BWS-1	06	08	10	12	16
Dimensions							
Height BWS-1	A	mm	740	740	740	740	740
Width BWS-1	B	mm	600	600	600	600	600
Depth BWS-1	C	mm	650	650	650	650	650
Height BWM	D	mm	355	355	355	545	545
Width BWM	E	mm	245	245	245	245	245
Depth BWM	F	mm	200	200	200	200	200
Heating supply/return,		G (AG)	1½"	1½"	1½"	1½"	1½"
Hot water supply/return, sole inlet/outlet		G (AG)	1¼"	1¼"	1¼"	1¼"	1¼"
Connections to BWM							
Weight		kg	141	145	149	169	174
Weight							

Technical data

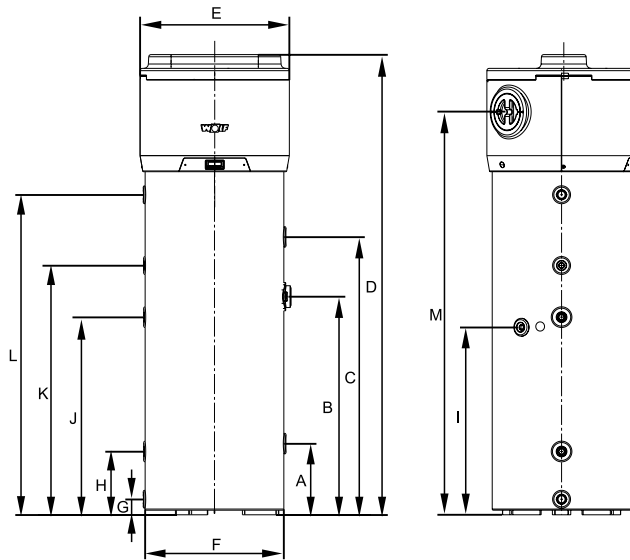
Sole/water heat pump BWS-1-06/08/10/12/16

TYPE	BWS-1	06	08	10	12	16
Technical data						
Heating capacity / COP according to EN14511						
B0/W35	kW / -	5,9 / 4,7	8,4 / 4,7	10,8 / 4,7	12,0 / 4,7	16,8 / 4,6
B0/W55	kW / -	5,3 / 2,8	7,4 / 2,8	9,2 / 2,9	10,5 / 2,8	15,8 / 2,8
B5/W35	kW / -	6,9 / 5,3	9,7 / 5,4	12,3 / 5,4	13,8 / 5,3	19,9 / 5,3
B-5/W45	kW / -	4,8 / 3,1	6,8 / 3,2	8,6 / 3,1	9,7 / 3,1	14,7 / 3,2
Seasonal space heating energy efficiency / heat rating at average climate conditions according to EU 811/2013						
η_s (35°C)* / P_{rated}	%/kW	176/6	171/9	170/11	166/12	162/18
η_s (55°C)* / P_{rated}	%/kW	121/5	118/7	149/9	129/11	126/17
Sound power level	dB(A)	41	42	42	43	43
Sound pressure level at 1m distance	dB(A)	39	40	40	41	41
averaged around the heat pump (in the room)	bar	3 / 3	3 / 3	3 / 3	3 / 3	3 / 3
Maximum operating pressure heating circuit / sole circuit	°C	20 to +63	20 to +63	+20 to +63	+20 to +63	+20 to +63
Temperature operating limits heating water	°C	-5 to +20	-5 to +20	-5 to +20	-5 to +20	-5 to +20
Temperature operating limits sole	- / -	R407C/1774	R407C/1774	R407C/1774	R407C/1774	R407C/1774
Filling quantity / CO eq	kg/ t	1,8/3,19	2,0/3,55	2,25/3,99	2,8/4,97	3,1/5,50
Maximum operating pressure refrigerant circuit	bar	30	30	30	30	30
Refrigerant oil		FV50S	FV50S	FV50S	FV50S	FV50S
Water volume flow minimum (7K) / nominal (5K) / maximum (4K) 1)	Ltr./min	12,1/16,6/21,6	17,2/24/30	22/30,8/38,3	24,6/34,1/43,3	34,4/48,3/60
Residual head at dT 5K	mbar	580	510	450	480	440
3-way valve for hot water charging circuit		integrated	integrated	integrated	integrated	integrated
High-efficiency pump (EEI < 0.23) heating circuit		Wilo Yonos Para 25/7,5			Wilo Stratos Para 25/1-8	
Sole volume flow minimum (5K) / nominal (4K) / maximum (3K)	Ltr./min	15 / 18,3 / 25	20 / 25,8 / 34,3	26,6 / 33,3 / 44,1	29,1 / 36,6 / 48,3	40,8 / 50,8 / 67,8
Residual head at dT 4K (30% sole / 0°C)	mbar	480	440	410	550	440
Minimum sole concentration / frost protection up to	% / °C	25 / -13	25 / -13	25 / -13	25 / -13	25 / -13
High efficiency pump (EEI < 0.23) Sole circuit		Wilo Yonos Para GT 25/1-7,5			Wilo Stratos Para 25/1-8	
Sole volume flow minimum (5K) / nominal (4K) / maximum (3K)	Ltr./min	15 / 18,3 / 25	20 / 25,8 / 34,3	26,6 / 33,3 / 44,1	29,1 / 36,6 / 48,3	40,8 / 50,8 / 67,8
Residual head at dT 4K (30% sole / 0°C)	mbar	480	440	410	550	440
Minimum sole concentration / frost protection up to	% / °C	25 / -13	25 / -13	25 / -13	25 / -13	25 / -13
High efficiency pump (EEI < 0.23) Sole circuit		Wilo Yonos Para GT 25/1-7,5			Wilo Stratos Para 25/1-8	
Power E-heating 3 phases 400V	kW	1 to 6	1 to 6	1 to 6	1 to 6	1 to 6
Maximum power consumption E-heating	A	9,6	9,6	9,6	9,6	9,6
Maximum power consumption / Compressor current within operating limits	kW / A	2,28 / 4,20	3,2 / 5,8	3,85 / 7,0	4,71 / 8,4	6,53 / 11,7
Power consumption / current consumption/ cosp at B0/W35	kW / A / -	1,26/2,5/0,72	1,79/3,2/0,80	2,3/4,4/0,76	2,55/4,6/0,79	3,65/6,9/0,76
Power consumption of the heating circuit pump at nominal flow rate	W	45	55	60	100	110
Power consumption of the sole pump at nominal flow rate	W	55	60	65	110	120
Starting current direct / soft start	A	27 / -	- / 21	- / 26	- / 31	- / 39
Compressor starts max.	1/h	3	3	3	3	3
TYPE. Power consumption BWS-1 in standby LP (Low Power)	W	5,8	5,8	5,8	5,8	5,8
Protection class	IP	IP20	IP20	IP20	IP20	IP20
Electrical connection / Fuse protection (all-pole disconnecting) Compressor		3~ PE / 400VAC / 50Hz / 10A(C)				3~ PE / 400VAC / 50Hz / 16 A(C)
E-heating		3~ PE / 400VAC / 50Hz / 10A(B)				
Control voltage		1~ NPE / 230VAC / 50Hz / 10A(B)				

¹⁾ To ensure high energy efficiency of the heat pump, the nominal volume flow should not be undercut.
The data given in this table apply to an uncontaminated heat exchanger

Technical data

Hot water heat pump SWP-200/260/260B



TYPE		SWP	200	260/260B
Dimensions				
Diameter x height		mm	Ø650 × 1707	Ø650 × 2000
Lower magnesium anode 1" (length 250 mm)	A	mm	-	310
Electric heating element	B	mm	650	920
Upper magnesium anode 1! (length 400 mm)	C	mm	960	1250
Total height	D	mm	1714	2000
Diameter heat pump	E	mm	650	650
Diameter storage tank	F	mm	604	604
Cold water connection	G	mm	70	70
Heat exchanger return	H	mm	-	275
Condensate water drain	I	mm	526	818
Heat exchanger flow	J	mm	-	820*
Circulation	K	mm	795	1085
Hot water connection	L	mm	1104	1391
Side air connection	M	mm	-	1755
Weight				
Weight unit		kg	95	115

Technical data

Hot water heat pump SWP-200/260/260B

TYPE	SWP	200	260/260B
Technical data			
Heat pump type		Warmwasser	
Conformity		CE	
Refrigerant circuit			
Refrigerant TYPE		R134a	R134a
Filling quantity	kg/t	0,9 / 1,29	0,9/1,29
Compressor TYPE		Rollkolben	Rollkolben
maximum operating pressure	bar	24	24
Heat pump heating capacity	kW	1,9	1,9
Heating capacity electric heating element	kW	1,5	1,5
Total heating capacity	kW	3,4	3,4
Tapping profile according to EN16147		L	XL
COP (A15 / W10-55, EN16147)	-	3,24	3,54
COP (A7 / W10-55, EN16147)	-	2,94	3,08
Sound power level (based on EN ISO3741-2010)		59	59
Temperature Hot water operating limits (heat pump only)	°C	+5 to +56	+5 to +56
maximum hot water temperature (heat pump + electric heating element)	°C	75	75
Temperature operating limits air min / max	°C	-7 / +38	-7 / +38
Temperature operating limits Installation room min / max	°C	+5 / +38	+5 / +38
Air flow rate	m3/h	350 - 500	350 - 500
max. available head	Pa	200	200
diameter supply/exhaust air opening	mm	160 oben	160 (oben und seitlich)
Cold water connection	G	1"	1"
supply/return heat exchanger	G	-	1 1/4"*
Hot water connection	G	1"	1"
Condensate drain	G	1/2"	1/2"
Storage tank capacity	l	200	260
Heating time ECO (10-55°C)	h:m	08:15	10:14
Boost heating time (10-55°C)	h:m	03:58	05:06
Performance index NL50	NL50	1,6	2,7
max. pouring capacity at 40° without recharging at storage tank temperature 55°C	l	276	342
Heat exchanger area	m²	-	1,0*
Heat exchanger capacity	l	-	6,8
Heat exchanger	bar/°C	-	10 / 110*
max. operating pressure storage tank	bar	10	10
Corrosion protection		Speicher emailliert 1x Magnesiumanode	Speicher emailliert 2x Magnesiumanode
Electrical system			
Mains connection / fuse protection heat pump incl. electric heating element		1~NPE, 230VAC, 50Hz / 16A (B), steckerfertig	
Power consumption electric heating element	kW	1,5	1,5
Power consumption heat pump maximum	kW	0,53	0,53
Protection class indoor unit		IP X4	IP X4

*only SWP-260

Technical data

WOLF

Home stations

Home Stations		Page 290
CAT-HT	Home station Version for high temperature heating circuits	Page 290
CAT-LT	Home station Version with mixer circuit for low temperature heating circuits	Page 291
CAT-HT-CIRC	Home station design for high temperature heating circuits including hot water circulation	Page 292
CAT-LT-CIRC	Home station Version with mixer circuit for low temperature heating circuits including hot water circulation	Page 293
Accessories home station		Page 294
Technical data		Page 299



CAT-HT home station Version for High temperature heating circuits



WWW.WOLF.EU/CAT-KONFIGURATOR

DG | H43

TYPE	CAT-HT	37	45		55
Heating capacity	kW	10 – 15	10 – 15	10 – 15	10 – 15
HW power b. 10/50* min.	kW // min	37 / 13,3	45 / 16,1	52 / 18,4	55 / 19,0
Nominal pressure supply	PN	10	10	10	10
Nominal pressure drinking water	PN	10	10	10	10
Min. static cold water pressure	bar	1,5	1,5	1,5	1,5
Insulation material / thermal conductivity	-W/mk	EPP/λ = 0,039	EPP/λ = 0,039	EPP/λ = 0,039	EPP/λ = 0,039
Max. flow temperature	°C	95	95	95	95
Connection dimension	IG	G3/4"	G3/4"	G3/4"	G3/4"
Dimensions					
Height	mm	590	590	590	590
Width	mm	545	545	545	545
Depth	mm	143	143	143	143
Weight	kg	12	13	17	13
CAT-HT**	Art. no.	2072416	2072417		2072418
	€	1260,00	1335,00		1380,00
CAT-HT + thermal insulation hood	Art. no.	2072583	2072584		2072585
	€	1335,00	1405,00		1465,00
CAT-HT-ULTRA**	Art. no.	2072419	2072420	2072421	
	€	1820,00	2010,00	2185,00	
CAT-HT-ULTRA + thermal insulation hood	Art. no.	2072586	2072587	2075150	
	€	1895,00	2090,00	2265,00	

* 10/50 (cold / hot water temp. In ° C and a buffer flow temperature of 65 ° C)

**Please ask for delivery times.

- Home station for operation with radiators and for decentralised hygienic hot water preparation
- WOLF RatioFlow controller for maximum hot water comfort: Combines proportional flow controller, zone valve and thermostatic readjustment
- Standard with differential pressure regulator (heating side)
- Plug&Seal fast connection system
- Incl. circulation bridge buzzer bypass with adjustable thermostat
- Insulated rear wall as standard, front insulation hood optional
- Strainer integrated in primary flow pipe
- Cold water and heat meter adapters suitable for continuous operation
- Extremely flat and compact design in modular principle
- Energy-efficient MicroPlate heat exchangers with patented flow characteristics
- CAT-HT: With copper-brazed stainless steel heat exchanger COPPER
- CAT-HT-ULTRA: For particularly high demands: Including pure stainless steel heat exchanger ULTRA and water hammer damper
- Product selection based on water quality: Application limits according to the WOLF Technical Brochure Home Station

CAT-LT home station Version with mixer circuit for low temperature heating circuits



WWW.WOLF.EU/CAT-KONFIGURATOR

DG | H43

TYPE	CAT-LT	37	45		55
Heating capacity	kW	10 – 15	10 – 15	10 – 15	10 – 15
HW power b. 10/50* min.	kW // min	37 / 13,3	45 / 16,1	52 / 18,4	37 / 13,3
Nominal pressure supply / heating	PN	6	6	6	6
Nominal pressure drinking water	PN	10	10	10	10
Min. static cold water pressure	bar	1,5	1,5	1,5	1,5
Insulation material / thermal conductivity	-W/mk	EPP/ $\lambda = 0,039$	EPP/ $\lambda = 0,039$	EPP/ $\lambda = 0,039$	EPP/ $\lambda = 0,039$
Max. flow temperature	°C	95	95	95	95
Connection dimension	IG	G3/4"	G3/4"	G3/4"	G3/4"
Dimensions					
Height	mm	590	590	590	590
Width	mm	545	545	545	545
Depth	mm	143	143	143	143
Weight	kg	14	14	15	15
CAT-LT**	Art. no.	2072422	2072423		2072424
	€	1915,00	1970,00		2080,00
CAT-LT + thermal insulation hood	Art. no.	2072588	2072589		2072590
	€	1995,00	2050,00		2110,00
CAT-LT-ULTRA**	Art. no.	2072425	2072426	2072427	
	€	2480,00	2690,00	2845,00	
CAT-LT-ULTRA + thermal insulation hood	Art. no.	2072591	2072592	2075151	
	€	2555,00	2770,00	2930,00	

* 10/50 (cold / hot water temp. In ° C and a buffer flow temperature of 65 ° C)

**Please ask for delivery times.

- Home station for operation with radiators and for decentralised hygienic hot water preparation
- Integrated high-efficiency pump for low-temperature heating systems
- Incl. actuator for zone valve for heating circuit switch-off
- Standard connection option for bathroom radiators
- Integrated safety thermostat
- WOLF RatioFlow controller for maximum hot water comfort: Combines proportional flow controller, zone valve and thermostatic readjustment
- Standard with differential pressure regulator (heating side)
- Plug&Seal fast connection system
- Incl. circulation bridge buzzer bypass with adjustable thermostat
- Insulated rear wall as standard, front insulation hood optional
- Strainer integrated in primary flow pipe
- Cold water and heat meter adapters suitable for continuous operation
- Extremely flat and compact design in modular principle
- Energy-efficient MicroPlate heat exchangers with patented flow characteristics
- CAT-LT: With copper-brazed stainless steel heat exchanger COPPER
- CAT-LT-ULTRA: For particularly high demands: Including pure stainless steel heat exchanger ULTRA and water hammer damper
- Product selection based on water quality: Application limits according to the WOLF Technical Brochure Home Station



CAT-HT-CIRC Home station

Version for high temperature heating circuits including Hot water circulation



WWW.WOLF.EU/CAT-KONFIGURATOR

DG | H43

TYPE	CAT-HT-CIRC	37	45		55
Heating capacity	kW	10 – 15	10 – 15	55 – 10	10 – 15
HW power b. 10/50* min.	kW // min	37 / 13,3	45 / 16,1	52 / 18,4	55 / 19,0
Nominal pressure supply	PN	10	10	10	10
Nominal pressure drinking water	PN	10	10	1,5	10
Min. static cold water pressure	bar	1,5	1,5	95	1,5
Insulation material / thermal conductivity	-W/mk	EPP/λ = 0,039	EPP/λ = 0,039	143	EPP/λ = 0,039
Max. flow temperature	°C	95	95	EPP/λ = 0,039	95
Connection dimension	IG	G3/4"	G3/4"	G3/4"	G3/4"
Dimensions					
Height	mm	590	590	15	590
Width	mm	545	545	590	545
Depth	mm	143	143	545	143
Weight	kg	12	12	13	14
CAT-HT-CIRC**	Art. no.	2075339	2075340		2075341
	€	1835,00	1915,00		1980,00
CAT-HT-CIRC + thermal insulation bonnet	Art. no.	2074773	2074774		2074775
	€	1910,00	1990,00		2065,00
CAT-HT-ULTRA-CIRC**	Art. no.	2075345	2075346	2075347	
	€	2430,00	2595,00	2745,00	
CAT-HT-ULTRA-CIRC + thermal insulation bonnet	Art. no.	2074776	2074777	2075152	
	€	2520,00	2675,00	2815,00	

*10/50 (cold/hot water temperature in °C and a buffer flow temperature of 65°C)

**Please ask for delivery times.

- Home station for operation with radiators and for decentralised hygienic hot water preparation
- Incl. circulation set: consisting of 7m HE circulation pump, 10bar safety valve, non-return valve, ball valve, piping
- WOLF RatioFlow controller for maximum hot water comfort: Combines proportional flow controller, zone valve and thermostatic readjustment
- Standard with differential pressure regulator (heating side)
- Plug&Seal fast connection system
- Incl. circulation bridge buzzer bypass with adjustable thermostat
- Insulated rear wall as standard, front insulation hood optional
- Strainer integrated in primary flow pipe
- Cold water and heat meter adapters suitable for continuous operation
- Extremely flat and compact design in modular principle
- Energy-efficient MicroPlate™ heat exchangers with patented flow behavior
- CAT-HT: With copper-brazed stainless steel heat exchanger COPPER
- CAT-HT-ULTRA: For particularly high demands: Including pure stainless steel heat exchanger ULTRA and water hammer damper
- Product selection based on water quality: Application limits according to the WOLF Technical Brochure Home Station



CAT-LT-CIRC Home station

Version with mixer circuit for low-temperature heating circuits including hot water circulation



WWW.WOLF.EU/CAT-KONFIGURATOR

DG | H43

TYPE	CAT-LT-CIRC	37	45		55
Heating capacity	kW	10 – 15	10 – 15	10 – 15	10 – 15
HW power b. 10/50* min.	kW // min	37 / 13,3	45 / 16,1	52 / 18,4	55 / 19
Nominal pressure supply / heating	PN	6	6	6	6
Nominal pressure drinking water	PN	10	10	10	10
Min. static cold water pressure	bar	1,5	1,5	1,5	1,5
Insulation material / thermal conductivity	-W/mk	EPP/ $\lambda = 0,039$	EPP/ $\lambda = 0,039$	EPP/ $\lambda = 0,039$	EPP/ $\lambda = 0,039$
Max. flow temperature	°C	95	95	95	95
Connection dimension	IG	G3/4"	G3/4"	G3/4"	G3/4"
Dimensions					
Height	mm	590	590	590	590
Width	mm	545	545	545	545
Depth	mm	143	143	143	143
Weight	kg	13	14	18	15
CAT-LT-CIRC**	Art. no.	2075342	2075343		2075344
	€	2535,00	2510,00		2575,00
CAT-LT-CIRC + thermal insulation bonnet	Art. no.	2074778	2074779		2074780
	€	2620,00	2585,00		2650,00
CAT-LT-ULTRA-CIRC **	Art. no.	2075348	2075349	2075350	
	€	3020,00	3210,00	3405,00	
CAT-LT-ULTRA-CIRC + thermal insulation bonnet	Art. no.	2074781	2074782	2075153	
	€	3095,00	3280,00	3480,00	

*10/50 (cold/hot water temperature in °C and a buffer flow temperature of 65°C)

**Please ask for delivery times.

- Home station for operation with panel heating, radiators and for decentralised hygienic hot water preparation
- Incl. circulation set: consisting of 7m HE circulation pump, 10bar safety valve, non-return valve, ball valve, piping
- Integrated high-efficiency pump for low-temperature heating systems
- Incl. actuator for zone valve for heating circuit switch-off
- Standard connection option for bathroom radiators
- Integrated safety thermostat
- WOLF RatioFlow controller for maximum hot water comfort: Combines proportional flow controller, zone valve and thermostatic readjustment
- Standard with differential pressure regulator (heating side)

- Plug&Seal fast connection system
- Incl. circulation bridge buzzer bypass with adjustable thermostat
- Insulated rear wall as standard, front insulation hood optional
- Strainer integrated in primary flow pipe
- Cold water and heat meter adapters suitable for continuous operation
- Extremely flat and compact design in modular principle
- Energy-efficient MicroPlate™ heat exchangers with patented flow behavior
- CAT-LT: With copper-brazed stainless steel heat exchanger COPPER
- CAT-LT-ULTRA: For particularly high demands: Including pure stainless steel heat exchanger ULTRA and water hammer damper
- Product selection based on water quality: Application limits according to the WOLF Technical Brochure Home Station



The above mentioned prices are without obligation and without VAT.




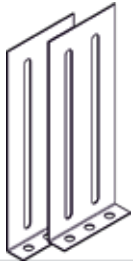
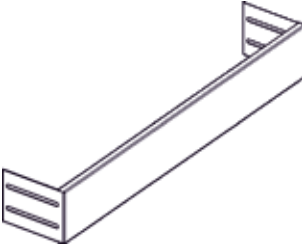

WOLF HOME STATIONS

293



Accessories home station

	Description	for product	Art. no.	DG	€
	CAT CONNECTION KIT Kit for perfectly coordinated hydraulic operation of a WOLF heat generator with buffer cylinder SPU-2 and WOLF floor stations CAT. Consisting of: 6mm NTC 5K temperature sensor, 2 x 1/2" cylinder immersion pockets, 3-way mixer made from brass, including 230V motor 120 s/90 degree, 6 no. (controlled via WOLF cascade module)				
	DN20, kvs 6,3	CGB-50	8615520	H43	189.00
	DN25, kvs 10	CGB-75	8615517	H43	206.00
	DN32, kvs 16	CGB-100,	8615518	H43	226.00
	DN40, kvs 25	MGK-2-130			
	DN50, kvs40	MGK-2-170/210	8615521	H43	282.00
		MGK-2-250/300	8615522	H43	317.00
	FLUSH-MOUNTED BOX INCL. BALL VALVE SET with mounting rail WxHxD (mm)				
	640x910x150	CAT-HT	8908970	H43	293.00
	690x910x150*	CAT-HT (-CIRC)	8908899	H43	293.00
	640x1350x150	CAT-LT (= < 8 heating	8908980	H43	317.00
		circuits)			
	690x1350x150	CAT-LT (-CIRC)	8908900	H43	315.00
	850x1350x150	(≤ 8 heating circuits) CAT-LT (-CIRC)	8908901	H43	341.00
		(≤ 8 heating circuits)			
	Note: * zur Montage von CIRC-Variante ist zusätzlich Platz unterhalb des Kastens notwendig				

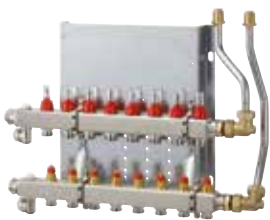



Accessories home station

	Description	for product	Art. no.	DG	€
	visible part flush-mounted box				
	685×935	UP box 640×910×150	8908977	H43	68.00
	735×935	UP box 690×910×150	8908902	H43	68.00
	685×1375	UP box 640×1350×150	8908983	H43	78.00
	735×1375	UP box 690×1350×150	8908903	H43	78.00
	895×1375	UP box 850×1350×150	8908904	H43	90.00
	Height-adjustable feet		8908955	H43	41.00
	FLUSH-MOUNTED STRIPS				
	Width 690	UP box b=690	8908957	H43	39.30
	Width 850	UP box b=850	8908959	H43	42.00
	Width 640	UP box b=640	8908964	H43	35.50
	Surface-mounted hood with the dimensions WxHxD (mm)				
	600×780×200 without door*	CAT-HT	8908896	H43	165.00
	690×1300×180 with door	CAT-LT (-CIRC) (≤ 8 heating circuits)	8908897	H43	432.00
	850×1350×180 with door	CAT-LT (-CIRC) (> 8 heating circuits)	8908898	H43	500.00
	Note: * nicht Kompatibel mit CIRC-Variante				






Accessories home station

	Description	for product	Art. no.	DG	€
	Ball valve set with mounting rail incl. 7 ball valves; G $\frac{3}{4}$ " IG; (with DVGW approval on the drinking water side)	CAT-HT/LT (-CIRC) without flush box	8908954	H43	151.00
	HEATING CIRCUIT DISTRIBUTOR WITH CUC CONTROLLER Distribution system for panel heating with flow meter and hard-wired individual room control UF-Control. consisting of: Flow distributor with flow rate indicator, Return collector, Mounting accessories for the connection to a Home station with fixed value control. Including pre-wired individual room control UF-Control 230V, with integrated Pump logic. UF-Control 230V mounted on the panel heating circuit distributor and completely wired with one thermal actuator per heating circuit. One additional room thermostat, e.g. room temperature controller WT-P or WT-T, is required per circuit. With integrated venting or control unit. Drainage option per distribution beam.				
	2 heating circuits	CAT-LT (-CIRC)	2072442	H43	600.00
	3 heating circuits	CAT-LT (-CIRC)	2072443	H43	655.00
	4 heating circuits	CAT-LT (-CIRC)	2072444	H43	720.00
	5 heating circuits	CAT-LT (-CIRC)	2072445	H43	790.00
	6 heating circuits	CAT-LT (-CIRC)	2072446	H43	875.00
	7 heating circuits	CAT-LT (-CIRC)	2072447	H43	940.00
	8 heating circuits	CAT-LT (-CIRC)	2072448	H43	1010.00
	9 heating circuits	CAT-LT (-CIRC)	2072449	H43	1090.00
	10 heating circuits	CAT-LT (-CIRC)	2072450	H43	1185.00
	11 heating circuits	CAT-LT (-CIRC)	2072451	H43	1230.00
	12 heating circuits	CAT-LT (-CIRC)	2072452	H43	1310.00

Accessories home station

	Description	for product	Art. no.	DG	€
	Heating circuit distributor manual CUC-B Distribution system for panel heating with flow meter. consisting of: Flow manifold with flow display, Return collector with presettable valve for hydraulic balancing of the heating circuits, Mounting accessories for connection to a home station with fixed set point control. With integrated ventilation or Drainage option per distributor bar.				
	2 heating circuits	CAT-LT (-CIRC)	2072431	H43	302.00
	3 heating circuits	CAT-LT (-CIRC)	2072432	H43	339.00
	4 heating circuits	CAT-LT (-CIRC)	2072433	H43	362.00
	5 heating circuits	CAT-LT (-CIRC)	2072434	H43	395.00
	6 heating circuits	CAT-LT (-CIRC)	2072435	H43	428.00
	7 heating circuits	CAT-LT (-CIRC)	2072436	H43	460.00
	8 heating circuits	CAT-LT (-CIRC)	2072437	H43	495.00
	9 heating circuits	CAT-LT (-CIRC)	2072438	H43	525.00
	10 heating circuits	CAT-LT (-CIRC)	2072439	H43	560.00
	11 heating circuits	CAT-LT (-CIRC)	2072440	H43	600.00
	12 heating circuits	CAT-LT (-CIRC)	2072441	H43	625.00
	THERMAL ACTUATOR FOR HEATING CIRCUIT DISTRIBUTOR CUC with position indicator, without handwheel. Connection: M30 × 1.5 ET Cable length: 1.2 m Electrical connection: 230 V Power consumption: 2 W	CAT-HT/LT (-CIRC)	2746229	H43	24.20
	Einzelraumregler UF-Control für Heizkreisverteiler CUC		8616766	H43	114.00
	THERMAL INSULATION COVER „Cover for thermal insulation on front of floor station. Depth: 155mm EPP $\lambda = 0.039 \text{ W/mK}$ Fire safety class: B2 as per DIN 4102“	CAT-HT/LT (-CIRC)	1669320	H43	83.00

Accessories home station

	Description	for product	Art. no.	DG	€
	WT-P 230V ROOM TEMPERATURE CONTROLLER „Programmable controller with seven-day program, absence function and frost protection mode. Three modes for temperature control. Display with backlighting A heat time controller for radiator systems can be used in combination with the 'thermal actuator for zone valves.'	CAT-HT/LT (-CIRC)	2746128	H41	123.00
	WT-T 230V ROOM TEMPERATURE CONTROLLER Temperature controller for easy setting of the comfort temperature, incl. Frost protection mode, incl. LED status display	CAT-HT/LT (-CIRC)	2746129	H41	59.00
	FLOOR TEMPERATURE SENSOR FOR ROOM TEMPERATURE CONTROLLER WT-P for recording and limiting floor temperatures	CAT-LT (-CIRC)	2746136	H41	13.30
	HEAT METER Compact ultrasonic heat meter DN15 with integrated M-Bus and two PT1000 temperature sensors. Large LCD display with menu navigation and information display Memory: Data history over 2 years, storage of annual and monthly values (including pulse input) Nominal flow rate: 1.5 m3/h Installation dimension: 110 mm, G3/4" AG	CAT-HT/LT (-CIRC)	2746130	H41	455.00
	THERMAL ACTUATOR FOR ZONE VALVE in combination with room temperature controller WT-P a heating time control for radiator systems can be realized. Normally closed.	CAT-HT (-CIRC)	2072430	H43	25.00

Technical Data

Wohnungsstationen CAT-HT/LT CAT-HT/LT-ULTRA

TYPE	CAT	37-HT/LT 37-HT/LT-ULTRA	45-HT/LT 45-HT/LT-ULTRA	55-HT/LT
Technical data				
Heat exchanger material		Plates: Stainless steel, W-No.: 1.4404 Lot: COPPER copper / ULTRA stainless steel		
Maximum permissible pressure primary		CAT-LT: PN6 / CAT-HT: PN10		
Maximum Allowable Hot Water Pressure		PN 10		
Minimum static cold water pressure	bar	1,5		
Material thermal insulation EPP	- / W/mK	EPP/λ = 0,039		
Maximum supply temperature	°C	95		
Electrical connection		nur für CAT-LT: 1 ~ NPE / 230 VAC / 50 Hz / 10 A / B / max. 45 W		
Connection dimension	IG	G ¾"		
Dimensions	H/B/T	590/545/143		
Weight without housing, without circulation		HT max. 13 kg / LT max. 17 kg		

TYPE	CAT	37-HT/LT 37-HT/LT- ULTRA	45-HT/LT 45-HT/LT- ULTRA	55-HT/LT
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Technical data									
Performance data for hot water									
Station rated power	kW	37	45	55	55	55	55	55	55
Supply power	kW	37	45	55,5	53	42	33,7	33,7	33,7
Temperatures primary	°C	65/19,1	65/22,4	65/17,6	65/20,6	65/14	65/15,8	55/16,3	50/19,1
Temperatures drinking water	°C	10/45	10/50	10/45	10/50	10/45	10/50	10/45	10/45
Primary flow rate	l/min	11,8	12,7	13,9	14,8	15,8	15,8	15,8	15,8
Flow rate drinking water	l/min	15,2	13,3	18,4	16,1	22,5	19	17,2	13,8
Pressure drop primary *	kPa	16	18	18	21	41	41	41	41

TYPE	CAT	52-HT/LT-ULTRA
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Technical data				
Performance data for hot water				
Station rated power	kW	52	52	52
Supply power	kW	52	42	28,5
Temperatures primary	°C	65/16,7	55/16,5	50/20,3
Temperatures drinking water	°C	10/50	10/45	10/45
Primary flow rate	l/min	15,3	15,6	13,1
Flow rate drinking water	l/min	18,7	17,2	11,7

Performance data heating		10kW	10kW	10kW
Temperature spread	K	20	30	40
Pressure loss CAT-HT Primary *	kPa	3	1	1
Pressure loss CAT-LT Primary *	kPa	9	3,5	2
Flow rate primary	l/min	7,2	4,8	3,6
Pressure loss primary *	kPa	17	28	17

* without heat meter

Technical data

WOLF

Storage tank systems

Stratified buffer storage		Page 302
BSP	Stratified buffer storage with fresh water station 60kW	Page 302
BSP-W	Stratified buffer storage with fresh water station 80kW	Page 303
Accessories		Page 304
Buffer tank		Page 307
BSH	Buffer tank with integrated corrugated stainless steel pipe for hot water preparation and heating support	Page 307
SPU-2-W	Buffer tank for heating support	Page 308
SPU-2(-Plus)	Buffer tank for heating support	Page 309
SPU-2	Buffer tank for heating support	Page 310
SPU-1	Buffer tank for heating support	Page 311
Accessories Fresh water station		Page 312
Accessories FWS-2-60/80		Page 312
Cascade FWS-2-80 / Accessories		Page 313
Accessories FWS-2-140/-350/-455 max		Page 317
Hot water solar storage tank		Page 318
SEM-1	Hot water solar storage tank	Page 318
SEM-2	Hot water solar storage tank	Page 319
Accessories		Page 320
SEM-1W	Hot water solar storage tank for heat pumps	Page 321
Hot water tank		Page 322
SE-2	Hot water tank	Page 322
Accessories		Page 324
SEW-2	Hot water tank for heat pumps BWL-1S(B) and CHA	Page 326
SEW-1	Hot water tank for heat pump	Page 327
Technical data		Page 328



BSP

Stratified buffer tank with fresh water station 60kW

DG | H45

TYPE	BSP	800	1000	1000B	SL 1000
	BSP-SL				
Number of smooth tube heat exchangers		1	1	0	2
Storage tank capacity	l	785	915	915	900
Heat exchanger surface solar bottom	m ²	2,5	3,0	0	3,0
Heat exchanger area solar top	m ²	0	0	0	1,9
Heat exchanger capacity solar bottom	l	16,5	19,8	0	19,8
Heat exchanger capacity solar top	l	0	0	0	11
Hot water capacity at 65°C buffer/hot water temp. 45°C	Ltr./min.	25	25	25	25
Dimensions					
Diameter with thermal insulation	mm	1000	1000	1000	1000
Diameter without thermal insulation	mm	790	790	790	790
Total height with thermal insulation	mm	1825	2110	2110	2110
Total height without thermal insulation	mm	1755	2040	2040	2040
Tipping dimension without thermal insulation	mm	1788	2068	2068	2068
Fresh water station weight	kg	17	17	17	17
BSP	Art. no.	8615737	8615738	8615712	
	€	4850.00	5410.00	4960.00	
BSP-SL	Art. no.				8615739
	€				5850.00

- Hygienic DHW heating with a powerful freshwater module FWS-2-60 with high efficiency pump (EEI < 0.20)
- Space saving steel stratification buffer cylinder with quality certificate
- Hydraulic components, such as the freshwater module, 2 circuits with mixer and solar pump assembly can be mounted on the cylinder itself or on the wall
- Stratification separating plates stabilise the temperature layers inside the cylinder and improve the solar yield significantly
- Highest possible solar yields as the cylinder can be heated up to 95 °C without risk of scaling or scalding
- Single cylinder system for the lowest possible heat losses
- Plug-in connections enable DHW circulation pump kit to be retrofitted; control via time switch or by opening a tap
- As option with 2 mixer circuit assemblies for high and low temperature circuits
- Affordable solution for central heating backup
- Removable thermal insulation for easier manoeuvring into the installation room
- 5 year warranty on the floorstanding cylinder
- 2 year warranty on electrical and moving parts



BSP-W Stratified buffer tank with fresh water station 80kW


DG | H45

TYPE	BSP-W		1000	1000B
	BSP-W-SL	1000		
Number of smooth tube heat exchangers		2	1	0
Storage tank capacity	l	900	915	915
Heat exchanger surface solar bottom	m ²	3,0	3,0	0
Heat exchanger area solar top	m ²	1,9	0	0
Heat exchanger capacity solar bottom	l	19,8	19,8	0
Heat exchanger capacity solar top	l	11,0	0	0
Hot water capacity at 50°C buffer/hot water temp. 45°C	Ltr./min.	25	25	25
Dimensions				
Diameter with thermal insulation	mm	1000	1000	1000
Diameter without heat insulation	mm	790	790	790
Total height with thermal insulation	mm	2110	2110	2110
Total height without thermal insulation	mm	2040	2040	2040
Tipping dimension without thermal insulation	mm	2068	2068	2068
Weight fresh water station	kg	20	20	20
BSP	Art. no.	8615349		
	€	6260.00		
BSP-W	Art. no.		8615348	8615713
	€		5820.00	5370.00

- Hygienic DHW heating with a powerful freshwater module FWS-2-80 with high efficiency pump (EEI < 0.20)
- Space saving steel stratification buffer cylinder with quality certificate
- Hydraulic components, such as the freshwater module and solar pump assembly, can be mounted on the cylinder itself or on the wall
- Stratification separating plates stabilise the temperature layers inside the cylinder and improve the solar yield significantly
- Highest possible solar yields as the cylinder can be heated up to 95 °C without risk of scaling or scalding
- Single cylinder system for the lowest possible heat losses
- Affordable solution for central heating backup
- Plug-in connections enable DHW circulation kit to be retro-fitted; control via time switch or by opening a tap
- As option with 2 mixer circuit assemblies for high and low temperature circuits
- Removable thermal insulation for easier manoeuvring into the installation room
- 5 year warranty on the floorstanding cylinder
- 2 year warranty on electrical and moving parts


Accessories



	Description	Art. no.	DG	€
	<p>MIXER CIRCUIT GROUP LOW TEMPERATURE BSP For direct mounting on the stratified buffer storage BSP / BSP-SL / BSP-B consisting of: High-efficiency pump DN15-70 (EEI ≤ 0.20), self-regulating, mounted mixer motor (230V/110s), progressive 3-way mixing valve DN20 kvs=8.0, 2 ball valves each in the Flow and return flow for maintenance without buffer and heating emptying, integrated Gravity brake to prevent miscirculation, thermometer, designer thermal insulation shells from EPP. Top connections flat sealing G1 AG and clamping ring ø 22 mm bottom flat sealing G1 AG with stainless steel corrugated hoses kvs=4.5 Δp=150 mbar at V=1700 l/h at Δt 10K up to 20 kW at Δt 20K up to 40 kW</p>	2071234	H46	995.00
	<p>MIXER CIRCUIT GROUP HIGH TEMPERATURE BSP For direct mounting on the stratified buffer storage BSP / BSP-SL / BSP-B consisting of: High-efficiency pump DN15-70 (EEI ≤ 0.20), self-regulating, mounted mixer motor (230V/110s), progressive 3-way mixing valve DN20 kvs=8.0, 2 ball valves each in the Flow and return flow for maintenance without buffer and heating emptying, integrated Gravity brake to prevent miscirculation, thermometer, designer thermal insulation shells from EPP. Top connections flat sealing G1 AG and clamping ring ø 22 mm bottom flat sealing G1 AG with stainless steel corrugated hoses kvs=4.5 Δp=150 mbar at V=1700 l/h at Δt 10K up to 20 kW at Δt 20K up to 40 kW</p>	2071235	H46	995.00

	Description	Art. no.	DG	€
	MIXER CIRCUIT GROUP LOW AND HIGH TEMPERATURE BSP For direct mounting on the stratified buffer storage BSP / BSP-SL / BSP-B consisting of: two high-efficiency pumps DN15-70 ($EEI \leq 0,20$), self-regulating, two mounted mixer motors (230V/110s), two progressive 3-way mixers DN20 $kvs=8.0$, each 2 ball valves in flow and return for maintenance without buffer and heating drain, two integrated gravity brakes to prevent mis-circulation, Thermometers, designer thermal insulation shells made of EPP. Top connections flat-sealing G1 AG and clamping ring $\varnothing 22$ mm bottom flat sealing G1 AG with stainless steel corrugated hoses $kvs=4.5$ $\Delta p=150$ mbar at $V=1700$ l/h at Δt 10K up to 20 kW at Δt 20K up to 40 kW	2071236	H46	1980.00
	ZP-3 DHW circulation pump kit To extend the FWS-2-6 and FWS-2-8 freshwater modules Consisting of: High efficiency DHW circulation pump, with thermostat shutdown and time switch, ball valve and offset fitting (activation from draw- off point or by means of integrated time switch)	2072359	H46	515.00
	Cover for BSP heating circuit connections	2071417	H46	59.00
	Solar connection kit for solar pump assembly 10 For direct mounting on the BSP / BSP-W stratification buffer cylinder Consisting of: Thermally insulated connection lines and fixing materials			
	BSP-800	2070584	H46	92.00
	BSP-1000 / BSP-W1000	2070604	H46	92.00
	Differential pressure overflow valve Right angle version 1" To DHW cascade with 2 BSP stratification buffer cylinders Incl. threaded connection and flat gasket Setting range: 50-500 mbar (values directly visible) Connection: 2 x 1" (DN25) female thread	2071237	H46	170.00
	Dummy plug 1 1/2"	8611149	H46	6.60

Accessories

	Description	Art. no.	DG	€
	Motorised valve For return temperature raising for central heating backup DN25 1", 230 V	2741098	H46	161.00



BSH Buffer cylinder with integral corrugated stainless steel pipe for DHW heating and central heating backup

DG | H45

TYPE	BSH	500	800	1000	1500	2000
Energy efficiency class**	A+ → F	B				
Tank capacity	l	495	800	900	1500	1965
Hot water capacity	l	48	60	60	70	80
Continuous storage capacity at 10/45°C (hot water temp.), 70°C (buffer temp.)	kw-l/ min	24 - 594	38 - 940	50 - 1200	75 - 1848	100 - 2515
Performance index	NL	2,1	4,3	5,4	6,5	7,6
Heat exchanger area solar top	m²	2,3 / -	3,0 / 2,0	3,0 / 3,0	3,0 / 3,5	5,5 / 4,2
Heat exchanger capacity solar top	l	9,8 / -	12,1 / 7,7	12,1 / 12,1	15,0 / 20,2	22,7 / 18,4
Dimensions						
Diameter with thermal insulation	mm	850	1030	1030	1240	1340
Diameter without thermal insulation	mm	650	790	790	1000	1100
Total height with thermal insulation	mm	1730	1940	2120	2250	2390
Tilt dimension with thermal insulation	mm	1930	2200	2360	2575	2745
Tipping dimension without thermal insulation	mm	1750	1950	2125	2290	2450
Weight	kg	135	222	245	365	405
BSH	Art. no.	7701321	7701322	7701323	7701324	7701325
	€	4335.00	5155.00	5445.00	6075.00	6760.00

**Energy labelling according to the Ecodesign Directive for storage ≤ 500 Ltr.

- Space-saving buffer tank made of steel with quality certificate incl. thermostatic water mixer
- Hygienic hot water preparation using the instantaneous water heater principle with stainless steel hot water heat exchanger
- Maintaining the temperature stratification in the buffer tank by using a circulation lance (accessory)
- No hot water charging pump required
- Low calcification tendency even up to 70°C
- Increased solar yield through generously dimensioned solar heat exchangers and due to permanent cooling of the lower storage area during hot water preparation
- Short-term higher available tapping capacity due to high water content of the hot water heat exchanger (48 - 80 litres depending on tank size)
- Infinitely variable adjustment of the „ready part“ for hot water preparation by variable positioning of the hot water sensor via sensor terminal strip
- Heat insulation removable for easy transport to the installation room
- 5 years warranty on upright storage
- 2 years on electrical and moving parts



SPU-2-W

Buffer cylinder for central heating backup

DG | H45

TYPE	SPU-2-W	500	800	1000	1500
Energy efficiency class	A+ → F	C			
Cylinder capacity	l	480	780	960	1500
connection (8 pce)	Rp	1 ½"	1 ½"	1 ½"	1 ½"
Dimensions					
Diameter with thermal insulation	mm	850	990	990	1200
Diameter without thermal insulation	mm	650	790	790	1000
Total height with thermal insulation	mm	1725	1785	2135	2235
Tilting measure	mm	1910	2050	2360	2540
Tilting without measure	mm	1670	1750	2090	2270
Weight	SPU-2-W kg	113	133	149	256
SPU-2-W	Art. no.	2483049	2483050	2483051	2483052
	€	1620.00	2150.00	2435.00	3475.00

Energy label in accordance with Eco Design Regulations for storage tanks ≤ 500 litres

- Steel buffer cylinder with quality certificate
- High grade thermal insulation with 100 mm thickness for low heat losses
- Removable thermal insulation for easier manoeuvring into the installation room
- Eight ½" connections and four ½" connections in the cylinder wall
- 5 year warranty on the floorstanding cylinder
- 2 year warranty on electrical and moving parts



SPU-2 (-Plus) Buffer cylinder for central heating backup

DG | H45

TYPE	SPU-2	500	800	1000	1500
	SPU-2 plus		800	1000	1500
Energy efficiency class	A+ → F	C			
Cylinder capacity	l	490	795	980	1530
connection (8 pce)	Rp	1 1/2"	1 1/2"	1 1/2"	1 1/2"
Dimensions					
Diameter with thermal insulation	mm	850	990	990	1200
Diameter without thermal insulation	mm	650	790	790	1000
Total height with thermal insulation	mm	1725	1785	2135	2235
Tilting measure	mm	1910	2050	2360	2540
Tilting without measure	mm	1670	1750	2090	2270
Weight	kg	87	109	130	205
SPU-2-500-1500	Art. no.	2483045	2483046	2483047	2483048
	€	1415.00	1885.00	2075.00	3050.00
SPU-2 plus	Art. no.		2485528	2485529	2485530
	€		2085.00	2265.00	3260.00

Energy label in accordance with Eco Design Regulations for storage tanks ≤ 500 litres

- Steel buffer cylinder in silver with quality certificate and steel smooth tube indirect coil
- High grade thermal insulation with 100 mm thickness for low heat losses
- Removable thermal insulation for easier manoeuvring into the installation room
- Eight 1/2" connections and four 1/2" connections in the cylinder wall
- 5 year warranty on the floorstanding cylinder
- 2 year warranty on electrical and moving parts



SPU-2

Buffer cylinder for central heating backup

DG | H45

TYPE	SPU-2	2000	3000	4000	5000
Cylinder capacity	l	1950	2700	3950	4950
connection (8 pce)	Rp	2"	2"	2"	2"
Dimensions					
Diameter with thermal insulation	mm	1300	1450	1700	1800
Diameter without thermal insulation	mm	1100	1250	1500	1600
Total height with thermal insulation	mm	2480	2560	2670	2910
Tilting measure	mm	2800	2950	3150	3400
Tilting without measure	mm	2550	2650	2850	3100
Weight	kg	253	298	486	604
SPU-2-2000-5000					
	Art. no.	2484706	2484707	2484708	2484709
	€	4480.00	5265.00	6710.00	7095.00

* Delivery time on request

- Steel buffer cylinder in silver with quality certificate
- Removable thermal insulation for easier manoeuvring into the installation room
- Eight 2" connections and four 1/2" connections in the cylinder wall
- High grade thermal insulation with 100 mm thickness for low heat losses
- 5 year warranty on the floorstanding cylinder
- 2 year warranty on electrical and moving parts



SPU-1



Buffer cylinder for central heating backup

DG | H45




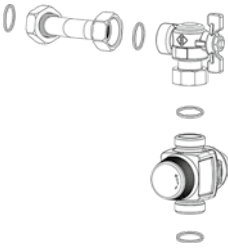
TYPE	SPU-1	200
Energy efficiency class	A+ → F	C
Cylinder capacity	I	200
connection (5pce)	Rp	1 ½"
Dimensions		
Diameter with thermal insulation	mm	610
Total height with thermal insulation	mm	1140
Tilting measure	mm	1310
Weight	kg	48
SPU-1	Art. no.	2483884
	€	975.00

- Steel buffer cylinder with quality certificate
- Five ½" connections
- Suitable as separating cylinder or series cylinder for all heat pumps
- 5 year warranty on the floorstanding cylinder
- 2 year warranty on electrical and moving parts

Accessories FWS-2-60/80

	Description	Art. no.	DG	€
	Fresh water station FWS-2-60 with high-efficiency pump (EEI <0,20) for hygienic water heating in combination with a buffer tank FWS-2-60 Continuous hot water output up to 15 ltr./min 1) or 25 ltr./min 2).	2074852	H46	1615.00
	<ul style="list-style-type: none"> • for on-site wall mounting • Cascade of 2 possible in combination with overflow valve accessory set • High-efficiency hot water circulation pump can be integrated as an accessory • simple thermostatic temperature adjustment • prefabricated in design thermal insulation <p>Hot water continuous output at:</p> <p>1) 70/25°C buffer VL/RL - 10/60°C hot water</p> <p>2) 65/18°C buffer VL/RL - 10/45°C hot water with admixture of 10°C cold water at the tapping point</p> <p>Dimensions: 400 × 600 × 305mm (W x H x D)</p>			
	FWS-2-80 freshwater module WITH HIGH EFFICIENCY PUMPS (EEI <.20) FOR HYGIENIC DHW HEATING IN COMBINATION WITH A BUFFER CYLINDER FWS-2-80 Continuous DHW output up to 27 l/min ¹⁾ , 40 l/min ²⁾ or 25 l/min ³⁾ Dimensions: 400 × 600 × 305 mm (W x H x D)	2072335	H46	2765.00
	<ul style="list-style-type: none"> • Electronically controlled • High DHW convenience • Reduces limescale deposits by mixing freshwater into the primary inlet of the heat exchanger • Continuous output matching with variable speed pump • For installation on the cylinder or wall on site • High efficiency DHW circulation pump can be integrated as accessory • Incl. flushing valves on the DHW side of the heat exchanger • Incl. function for pasteurisation <p>Continuous DHW output at:</p> <p>¹⁾ 70 °C buffer flow – 10/60 °C cold water/DHW</p> <p>²⁾ 65 °C buffer flow – 10/45 °C cold water/DHW</p> <p>³⁾ 50 °C buffer flow – 10/45 °C cold water/DHW</p>			

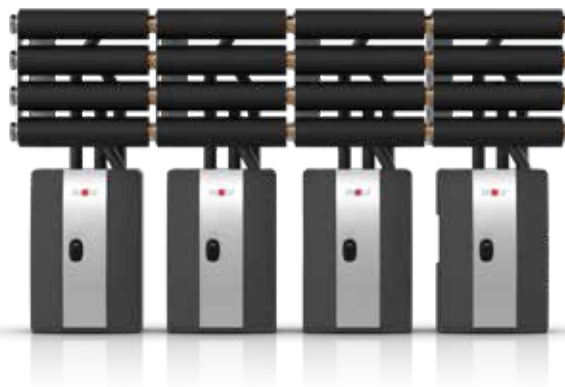
Accessories FWS-2-60/80

	Description	Art. no.	DG	€
	ZP-3 DHW circulation pump kit To extend the FWS-2-6 and FWS-2-8 freshwater modules Consisting of: High efficiency DHW circulation pump, with thermostat shutdown and time switch, ball valve and offset fitting (activation from draw-off point or by means of integrated time switch)	2072359	H46	515.00
	Differential pressure overflow valve Right angle version 1" To DHW cascade with 2 BSP stratification buffer cylinders Incl. threaded connection and flat gasket Setting range: 50-500 mbar (values directly visible) Connection: 2 x 1" (DN25) female thread	2071237	H46	170.00
	DHW circulation lance 1" For energy-optimised integration of the DHW circulation into the DHW connection Consisting of: DHW circulation connection Rp 1/2", DHW connection Rp 1", DHW circulation hose of stainless steel	2483915	H46	102.00
	Return layering set BSP FWS-2 Consisting of: Switching valve, angle valve and piping for installation in the FWS-2. The accessory set enables a temperature-dependent stratification of the return flow of the fresh water station FWS-2 into the stratified buffer tank BSP. The set is particularly recommended for systems with circulation operation. It improves the stratification in the storage tank. Depending on the set temperature, the return is integrated in the middle or at the bottom of the storage tank. The set can also be easily integrated into the FWS-2 fresh water station. The piping between the FWS-2 fresh water station and the BSP buffer tank layers is provided by the customer.	8616505	H46	323.00

Frischwasserkaskaden für maximale flexibilität

Fresh water cascades for buildings with
high hot water demand

- Water heating for medium to large projects
(tapping capacity up to 160 l/min)
- Up to 4 fresh water stations FWS-2-80 in cascade
- Modular design - flexibly expandable
- Quick and easy wall mounting: wall brackets
on stations and piping
- Permanent hot water supply - even during maintenance
- Electronically controlled system
- Running time balancing and thermal disinfection as standard
- Low heat losses thanks to generous insulation
- Hydraulically designed for maximum efficiency and hygiene



The basic equipment:
fresh water station FWS-
2-80



2. Base of the cascade:
Master controller and
one cascade valve per station



3. Convenient extension:
DN50 piping per station
+ one hygiene set



4. Accessories:
Circulation pump and
Return switching valves









Configuration


Depending on the power requirement, the cascade can be built up modularly according to the following table.

ART.-NO.	Designation	Parts list Cascade		
		x2	x3	x4
2072335	Fresh water station FWS-2-80	2	3	4
8616063	Cascade valve	2	3	4
8616065	Master controller FWS-2-Cascade	1	1	1
8616061	Piping set DN 50	2	3	4
8616062	Hygiene set	1	1	1



Buffer module

	Description	for product	Art. no.	DG	€
	MASTER CONTROLLER FWS-2-CASCADE For cascade control from 2 to 4 FWS-2-80. Circulation pump control and Return layering. Legionella disinfection function Runtime balancing. Includes 3x PT1000 temperature sensor.	FWS-2-80 Cascade	8616065	H41	715.00
	CASCADE VALVE 2-way ball valve DN 20 incl. actuator for mounting at the cold water inlet of the FWS-2-80. For demand-regulated shut-off of individual stations.	FWS-2-80 Cascade	8616063	H46	237.00
	PIPING SET DN 50 expandable set of stainless steel pipes DN 50, insulated incl. mounting bracket for wall mounting. One set per FWS-2-80 Consisting of: Collector pipes and supply lines to the sta- tion, insulated, connection dimension DN50 (stainless steel), incl. mounting bracket for easy and quick installation, DVGW ball valve for Mounting at the hot water outlet. One hygiene set required per cascade.	FWS-2-80 Cascade	8616061	H46	1190.00
	HYGIENESET for installation in a cascade piping system for complete flushing of the piping system Consisting of: 1 hygiene lance for installation in the hot water outlet 4 blind caps 2" to close the distribution pipes. Incl. seals.	Verrohrungsset DN 50	8616062	H46	275.00
	Circulation pump Infinitely variable high-efficiency pump for drinking water circulation 7m delivery head	FWS-2-80 Cascade	2074798	H46	293.00
	3-way mixer as return switching valve to avoid mixing of the storage tanks DN25, Kvs 10 DN32, Kvs 16 DN40, Kvs 25		2744674 2744675 2744676	H40 H40 H40	91.00 96.00 137.00

Buffer module

	Description	for product	Art. no.	DG	€
	Servomotor 230V~/50Hz, 6Nm for 3-way reversing valve (art. no. 27 44 913) 30 sec, 90°, 2-point control signal		2269612	H46	257.00

Accessories FWS-2-140/-350/-455

	Description	Art. no.	DG	€
	FWS-2 max <ul style="list-style-type: none"> • Optimized for integration into building management systems • Regulation „Station charging module ECL Comfor 310“ • large plate heat exchanger • infinitely variable power adjustment with speed-controlled pumps • with integrated hot water circulation • hydraulically and electrically assembled and programmed ready for installation • floor standing, complete with heat insulation hood • incl. all necessary fittings <p>Dimensions (W x H x D) [mm]:</p> <p>FWS-2-140 max: 847 × 1890 × 488</p> <p>FWS-2-350 max: 935 × 1962 × 488</p> <p>FWS-2-455 max: 935 × 1962 × 488</p> <p>* at 130 mm foot height.</p> <p>The foot height is adjustable from 110 - 160 mm</p> <p>Hot water continuous output:</p> <p>140kW = 40 Ltr./min1 > FWS-2-140</p> <p>350kW = 100 Ltr./min1 > FWS-2-350</p> <p>455kW = 130 Ltr./min1 > FWS-2-455</p> <p>Hot water continuous output at nominal design</p> <p>1) 70/25°C buffer VL/RL - 10/60°C cold/hot water addition 10°C cold water at the tap</p>			
	FWS-2-140 max	2074581	H42	9425.00
	FWS-2-350 max	2074582	H42	11515.00
	FWS-2-455max	2074583	H42	13315.00
	Return stratification kits Consisting of: <ul style="list-style-type: none"> • 3-way diverter valve • 2 cable sensors PT1 for heating return and buffer cylinder • 2 cable glands for the temperature sensors • 2 mm sensor well for cylinder sensor 			
	DN20	2484927	H42	1070.00
	DN25	2484928	H42	1190.00
	DN32	2484929	H42	2110.00



SEM-1 DHW solar cylinder

DG | H45

TYPE	SEM-1	500	750	1000
Energy efficiency class	A+ → F	C		
Cylinder capacity	I	500	750	935
Continuous cylinder output of heating *80/60-10/45°C	kW/l/h	20 – 490	50 – 1200	50 – 1200
Output factor of heating	NL60	6.0	13.5	18.0
Dimensions				
Diameter with thermal insulation	mm	850	1000	1000
Diameter without thermal insulation	mm		800	800
Tilting measure	mm	1935	2030	2350
Weight	kg	182	290	350
SEM-1	Art. no.	2444850	2444875	2444810
	€	2835.00	3640.00	4515.00

* Heating water flow/heating water return - cold water/hot water
Energy label in accordance with Eco Design Regulations for storage tanks ≤ 500 litres

- Steel DHW solar cylinder with quality certificate, two-layer enamel coating and two smooth tube indirect coils
- High grade rigid PUR foam or polyester fleece thermal insulation below the foil jacket of the cylinder for low heat losses
- Large indirect coil, fitted low down in the cylinder, ensures short heat-up times and a high continuous DHW output
- Side flange for maintenance
- Connection for an electric booster heater
- Optimised ratio between diameter and height for good temperature stratification
- 5 year warranty on the floorstanding cylinder
- 2 year warranty on electrical and moving parts



SEM-2 DHW solar cylinder








DG | H45

TYPE	SEM-2	300	400
Energy efficiency class	A+ → F	C	C
Cylinder capacity	l	285	385
Continuous cylinder output of heating *80/60-10/45°C	kW/l/h	20 – 490	20 – 490
Output factor of heating	NL60	2.3	4.8
Dimensions			
Diameter with thermal insulation	mm	600	701
Tilting measure	mm	1898	1820
Weight	kg	130	152
SEM-2	Art. no.	2483737	2483738
	€	1790.00	2380.00

* heating water supply/heating water return - cold/hot water

- Steel DHW solar cylinder with quality certificate, two-layer enamel coating and two smooth tube indirect coils
- High grade rigid PUR foam or polyester fleece thermal insulation below the foil jacket of the cylinder for low heat losses
- Large indirect coil, fitted low down in the cylinder, ensures short heat-up times and a high continuous DHW output
- Side flange for maintenance
- Connection for an electric booster heater
- Optimised ratio between diameter and height for good temperature stratification
- 5 year warranty on the floorstanding cylinder
- 2 year warranty on electrical and moving parts

Accessories

	Description	for product	Art. no.	DG	€
	E2 Electric booster heater with cylinder temperature controller 2 kW / 1 × 230 V	SEM-1, SEM-2, SE-2	2792007	H46	283.00
	E4,5 Electric booster heater with cylinder temperature controller 4.5 kW / 3 × 400V	SEM-1, SEM-2, SE-2	2792012	H46	470.00
	E6 Electric booster heater with cylinder temperature controller 6 kW / 3 × 400V	SEM-1, SEM-2, SE-2	2792017	H46	481.00
	High efficiency charging pump 1" (EEI < 0.23)	SEM-1, SEM-2	8908149	H46	297.00
	Thermometer	SEW-1-300/400, SEM-1W-360	2039052	H41	29.50
	Impressed current anode For enamelled cylinder	SE-2, CSZ-2, SEM-1, SEM-2	2445000	H46	271.00
	Solar connection kit for solar pump group 10 for direct mounting on the Hot water solar cylinder SEM-2	SEM-2	7701167	H46	19.60



SEM-1W

Hot water solar storage for heat pump

DG | H45

TYPE	SEM-1W	360
Energy efficiency class	A+ → F	C
Heating capacity	kW	12
Cylinder capacity	l	365
Continuous cylinder output of heating *80/60-10/45°C	kW/l/h	90 – 2210
Output factor of heating	NL60	3.0
Dimensions		
Diameter with thermal insulation	mm	705
Tilting measure	mm	1740
Weight	kg	185
SEM-1W	Art. no.	2484202
	€	2520.00

* Heating water supply/heating water return - Cold water/hot water

** Energy labelling according to the Ecodesign Directive for storage ≤ 500 Ltr.

- Steel solar storage tank with quality certificate and double layer enamelling with two smooth pipe heat exchangers
- Low heat loss due to high-quality PU hard foam under the foil jacket of the storage tank
- Large heat exchanger surfaces ensure short heat-up times and high hot water continuous output
- Lateral flange for easy maintenance
- Connection for auxiliary electric heating
- Optimized diameter/height ratio for good temperature stratification
- 5 years warranty on upright storage
- 2 years on electrical and moving parts



SE-2 DHW cylinder made from steel with two-layer ena- mel coating

DG | H45

TYPE	SE-2	150	200	300
Energy efficiency class	A+ → F	B	B	C
Cylinder capacity	I	140	195	285
Performance factor	NL	2,0	3,5	7,5
Continuous cylinder output of heating *80/60-10/45°C	kW/l/h	28 – 700	28 – 700	40 – 1000
Dimensions				
Diameter with thermal insulation	mm	600	600	600
Tilting measure	mm	1150	1350	1860
Weight	kg	55	82	115
silber	SE-2	Art. no.	2444170	2444171
		€	1255.00	1395.00
weiss	SE-2	Art. no.	2444176	2444177
		€	1255.00	1395.00

Energy label in accordance with Eco Design Regulations for storage tanks ≤ 500 litres

* Heating water flow/heating water return - cold water/hot water

- Steel DHW cylinder with quality certificate, two-layer enamel coating and one internal smooth tube indirect coil
- Inspection and cleaning apertures for easy maintenance
- High grade rigid PUR foam thermal insulation below the foil jacket of the cylinder for low heat losses
- The interior of the cylinder and the indirect coil are protected from corrosion by a two-layer enamel coating and a protective magnesium anode (SE-2-750 with impressed current anode)
- Large indirect coil, fitted low down in the cylinder, for short heat-up times and a high continuous DHW output
- Connection for an electric booster heater
- Optimised ratio between diameter and height for good temperature stratification
- 5 year warranty on the floorstanding cylinder
- 2 year warranty on electrical and moving parts



SE-2 DHW cylinder made from steel with two-layer ena- mel coating

DG | H45








TYPE	SE-2	400	500	750
Energy efficiency class	A+ → F	C	C	
Cylinder capacity	l	380	485	750
Performance factor	NL	11,0	15,0	24,0
Continuous cylinder output of heating *80/60-10/45°C	kW/l/h	45 – 1100	53 – 1300	60 – 1500
Dimensions				
Diameter with thermal insulation	mm	670	750	990
				790
Tilting measure	mm	1925	1960	1940
Weight	kg	160	166	260
SE-2	Art. no.	2444165	2444166	2444167
	€	2330.00	2680.00	3635.00

Energy label in accordance with Eco Design Regulations for storage tanks ≤ 500 litres

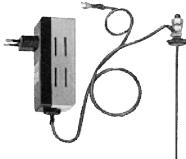



* Heating water flow/heating water return - cold water/hot water

- Steel DHW cylinder with quality certificate, two-layer enamel coating and one internal smooth tube indirect coil
- Inspection and cleaning apertures for easy maintenance
- High grade rigid PUR foam thermal insulation below the foil jacket of the cylinder for low heat losses
- The interior of the cylinder and the indirect coil are protected from corrosion by a two-layer enamel coating and a protective magnesium anode (SE-2-750 with impressed current anode)
- Large indirect coil, fitted low down in the cylinder, for short heat-up times and a high continuous DHW output
- Connection for an electric booster heater
- Optimised ratio between diameter and height for good temperature stratification
- 5 year warranty on the floorstanding cylinder
- 2 year warranty on electrical and moving parts

Accessories

	Description	for product	Art. no.	DG	€
	Frost stat SP-1 Incl. sensor well (to be mounted in the re- turn)	TLHD-EC, TLHD-K- EC, TLHD, TLHD-K	2797005	H41	59.00
	E2 Electric booster heater with cylinder temperature controller 2 kW / 1 × 230 V	SEM-1, SEM-2, SE-2	2792007	H46	283.00
	E4,5 Electric booster heater with cylinder temperature controller 4.5 kW / 3 × 400V	SEM-1, SEM-2, SE-2	2792012	H46	470.00
	E6 Electric booster heater with cylinder temperature controller 6 kW / 3 × 400V	SEM-1, SEM-2, SE-2	2792017	H46	481.00
	High efficiency charging pump 3/4" (EEI < 0.23) For SE-2-150/200	SE-2-150/200	8908142	H46	225.00
	High efficiency charging pump 1" (EEI < 0.23)	SEM-1, SEM-2	8908149	H46	297.00
	Thermometer	SEW-1-300/400, SEM-2039052 1W-360		H41	29.50

Accessories

	Description	for product	Art. no.	DG	€
	Impressed current anode For enamelled cylinder	SE-2, CSZ-2, SEM-1, SEM-2	2445000	H46	271.00
	Cylinder temperature sensor With round blue plug		279905499	H41	56.00
	Temperature sensor (NTC 5k, Ø 6 mm) loose Can be used as a cylinder, boiler, central unit and supply air temperature sensor		8852829	H41	67.00
	Lifting slings Consisting of 2 tension belts each with two support loops	SE-2-150 - 500 SEM-1-500 SEM-2-300 - 400	2444140	H46	67.00



SEW-2 DHW cylinder for split heat pump

DG | H45

TYPE	SEW-2	200
Energy efficiency class	A+ → F	C
Heating capacity	kW	14
Cylinder capacity	l	190
Continuous cylinder output of heating *80/60-10/45°C	kW/l/h	20 – 490
Output factor of heating	NL60	3.0
Dimensions		
Diameter with thermal insulation	mm	605
Tilting measure	mm	1410
Weight	kg	75
SEW-2	Art. no.	2484855
	€	1805.00

* Heating water supply/heating water return - Cold water/hot water

** Energy labelling according to the Ecodesign Directive for storage ≤ 500 Ltr.

- Only for use with BWL-1S(B)
- Smooth tube indirect coil for short heat-up times and convenient DHW heating
- Highly effective rigid PUR foam thermal insulation below the foil jacket for low heat losses; silver
- The interior of the cylinder is protected against corrosion by a special enamel coating and sacrificial magnesium anode
- Inspection and cleaning apertures for easy maintenance



SEW-1 DHW cylinder for heat pump

DG | H45

TYPE	SEW-1	300	400
Energy efficiency class	A+ → F	C	C
Heating capacity	kW	14	20
Cylinder capacity	l	280	360
Continuous cylinder output of heating *80/60-10/45°C	kW/l/h	90 – 2210	125 – 3070
Output factor of heating	NL60	7.0	10.0
Dimensions			
Diameter with thermal insulation	mm	705	705
Tilting measure	mm	1485	1805
Weight	kg	134	185
SEW-1	Art. no.	2483881	2483882
	€	2610.00	3220.00

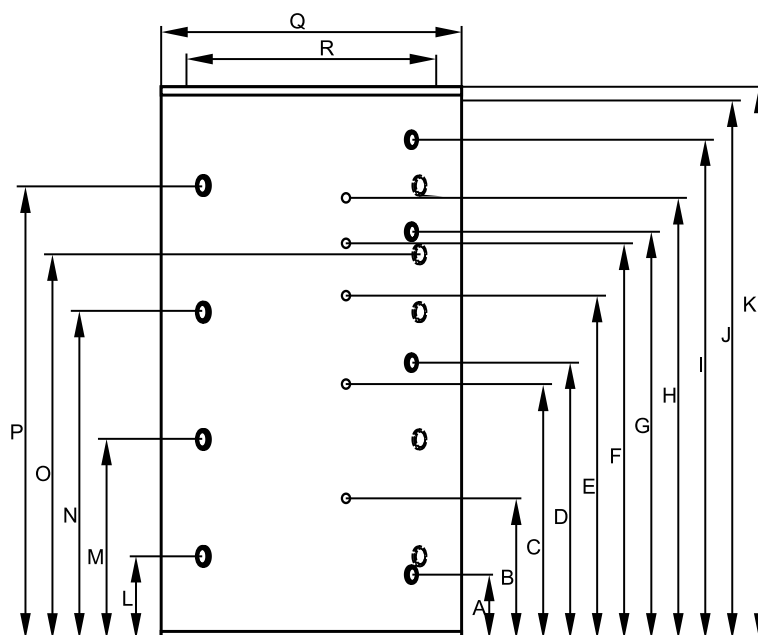
* Heating water supply/heating water return - Cold water/hot water

** Energy labelling according to the Ecodesign Directive for storage ≤ 500 Ltr.

- Smooth tube indirect coil for short heat-up times and convenient DHW heating
- The interior of the cylinder is protected against corrosion by a special enamel coating and sacrificial magnesium anode
- Highly effective rigid PUR foam thermal insulation below the foil jacket for low heat losses; silver
- Inspection and cleaning apertures for easy maintenance

Technical data

Stratified buffer storage
BSP-1000(B)
BSP-SL-1000



TYPE		BSP BSP-W-SL	800 -	1000 -	1000B -	- 1000
Dimensions						
Return solar (lower heat exchanger)	A	mm	230	230	-	230
Sensor solar (lower heat exchanger)	B	mm	490	550	-	550
Sensor switch valve	C	mm	800	950	-	950
Flow solar (lower heat exchanger)	D	mm	910	1030	-	1030
Collective sensor	E	mm	1200	1350	1350	1350
Storage tank sensor	F	mm	1350	1510	1510	1510
Return solar (upper heat exchanger)	G	mm	-	-	-	1443
Solar sensor (upper heat exchanger)	H	mm	-	-	-	1610
Solar flow (upper heat exchanger)	I	mm	-	-	-	1780
Total height without heat insulation	J	mm	1755	2040	2040	2040
Total height with thermal insulation	K	mm	1825	2110	2110	2110
Connection	L	mm	260	310	310	310
Connection	M	mm	630	745	745	745
Connection	N	mm	1030	1250	1250	1250
Connection	O	mm	-	1430	1430	1430
Connection	P	mm	1430	1710	1710	1710
Diameter with thermal insulation	Q	mm	1000	1000	1000	1000
Diameter without thermal insulation	R	mm	790	790	790	790
Tipping dimension without thermal insulation		mm	1788	2068	2068	2068
Weight						
Weight device		kg	171	194	194	215

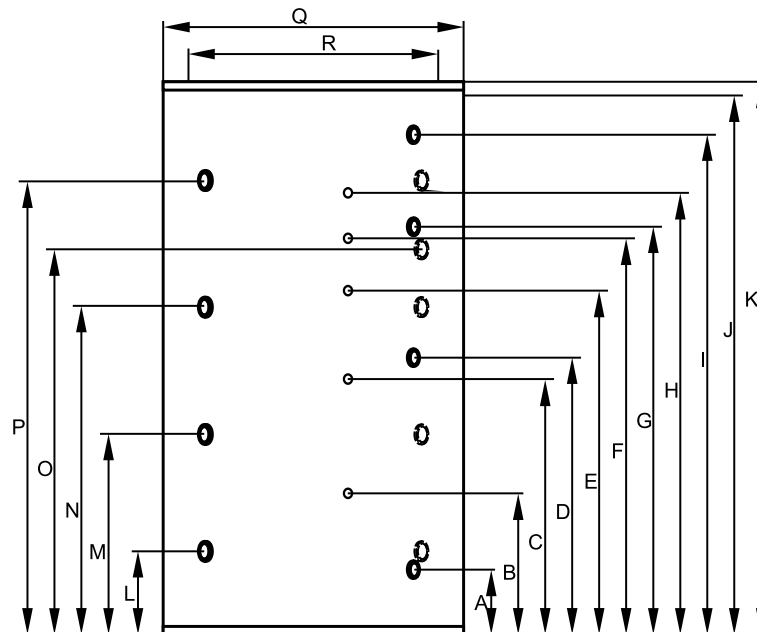
Technical data

Stratified buffer storage
BSP-1000(B)
BSP-SL-1000

TYPE	BSP BSP-SL	800 -	1000 -	1000B -	- 1000
Technical data					
Storage capacity	Ltr.	785	915	915	900
Standby heat consumption	kWh/24h	3,18	3,22	3,22	3,22
Solar flow / return	G	1"	1"	-	1"
Connection	G (IG)	1½"	1½"	1 ½"	1½"
Sensor (4 pieces) Inner diameter	mm	10	10	10	10
(for BSP-SL/BSP-W-SL 5 pieces)	m²	2,5 / -	3,0 / -	-	3,0 / 1,9
Heat exchanger area solar lower / upper WT	Ltr.	16,5 / -	19,8 / -	-	19,8 / 11,0
Heat exchanger capacity solar lower / upper WT	bar	3	3	3	3
max. operating pressure tank	bar	6	6	-	6
max. operating pressure heat exchanger	°C	95	95	95	95
max. operating temperature tank					

Technical data

Stratified buffer storage
BSP-W-/1000(B)
BSP-W-SL-1000



TYPE		BSP-W BSP-W-SL	1000 -	1000B -	- 1000
Dimensions					
Return solar (lower heat exchanger)	A	mm	230	-	230
Sensor solar (lower heat exchanger)	B	mm	550	-	550
Sensor switch valve	C	mm	950	-	950
Solar flow (lower heat exchanger)	D	mm	1030	-	1030
Collective sensor	E	mm	1350	1350	1350
Storage tank sensor	F	mm	1510	1510	1510
Return solar (upper heat exchanger)	G	mm	-		1443
Solar sensor (upper heat exchanger)	H	mm	-		1610
Solar flow (upper heat exchanger)	I	mm	-		1780
Total height without heat insulation	J	mm	2040	2040	2040
Total height with thermal insulation	K	mm	2110	2110	2110
Connection	L	mm	310	310	310
Connection	M	mm	745	745	745
Connection	N	mm	1250	1250	1250
Connection	O	mm	1430	1430	1430
Connection	P	mm	1710	1710	1710
Diameter with thermal insulation	Q	mm	1000	1000	1000
Diameter without thermal insulation	R	mm	790	790	790
Tipping dimension without thermal insulation		mm	2068	2068	2068
Weight					
Weight Device		kg	194	194	194

Technical data

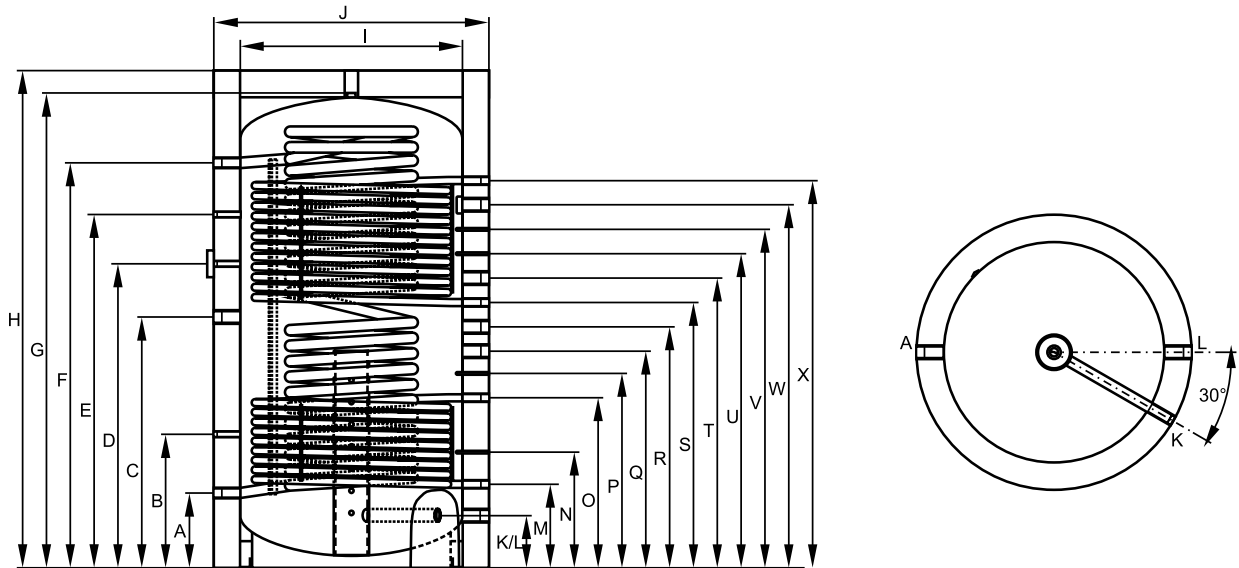
Stratified buffer storage
BSP-W-/1000(B)
BSP-W-SL-1000

TYPE	BSP-W BSP-W-SL	1000 -	1000B -	- 1000
Technical data				
Storage capacity	Ltr.	915	915	900
Standby heat consumption	kWh/24h	3,22	3,22	3,22
Solar flow / return	G	1"	-	1"
Connection	G (IG)	1 ½"	1 ½"	1 ½"
Sensor (4 pieces) Inner diameter	mm	10	10	10
(for BSP-SL/BSP-W-SL 5 pieces)	m²	3,0 /	-	3,0 / 1,9
Heat exchanger area solar lower / upper WT	Ltr.	19,8 /	-	19,8 / 11,0
Heat exchanger capacity solar lower / upper WT	bar	3	3	3
max. operating pressure tank	bar	6	-	6
max. operating pressure heat exchanger	°C	95	95	95
max. operating temperature tank				

Technical data

Buffer tank

BSH-500/800/1000/1500/2000



TYPE		BSH	500	800	1000	1500	2000
Dimensions							
Cold water connection	A	mm	240	270	270	335	350
Thermometer / probe	B	mm	440	570	580	600	750
Additional electric heater	C	mm	820	920	1130	1130	1210
Thermometer	D	mm	1150	1290	1500	1500	1470
Thermometer / probe	E	mm	-	-	-	-	1730
Hot water connection	F	mm	1420	1580	1760	1825	1950
Height without thermal insulation / venting	G	mm	1650	1840	2020	2150	2290
Height with thermal insulation	H	mm	1730	1940	2120	2250	2390
Diameter without thermal insulation	I	mm	650	790	790	1000	1100
Diameter with thermal insulation	J	mm	850	1030	1030	1240	1340
Return stratification / connection	K / L	mm	150	170	170	235	250
Return line solar bottom	M	mm	280	310	310	375	390
Immersion sleeve Tank sensor solar bottom	N	mm	490	465	495	520	630
Flow solar bottom	O	mm	700	670	730	765	870
Immersion sleeve Buffer sensor	P	mm	800	770	840	875	970
Connection	Q	mm	910	870	950	975	1080
Connection	R	mm	1020	980	1060	1085	1190
Return solar top	S	mm	-	1090	1210	1195	1300
Connection	T	mm	-	-	-	1305	1410
Immersion sleeve storage tank sensor	U	mm	1150	1190	1330	1415	1520
Immersion sleeve storage tank sensor solar top	V	mm	-	1290	1450	1525	1640
Connection	W	mm	1400	1390	1520	1635	1760
Solar flow, top	X	mm	-	1500	1680	1745	1870
Tilting dimension without thermal insulation		mm	1750	1950	2125	2290	2450
Tilt dimension with thermal insulation		mm	1930	2200	2360	2575	2745
Weight							
Weight		kg	135	220	245	365	405

Technical data

Buffer tank BSH-500/800/1000/1500/2000

TYPE	BSH	500	800	1000	1500	2000
Technical data						
Total storage capacity	Ltr.	495	800	900	1500	1965
Standby heat consumption	kWh/24h	1,9	2,32	2,4	3,03	3,6
Hot water content	Ltr.	48	60	60	70	80
Duration of storage ¹⁾	kW - Ltr./h	24 - 594	38 - 940	50 - 1200	75 - 1848	100 - 2515
Performance index ¹⁾	N _L	2,1	4,3	5,4	6,5	7,6
Solar flow / Solar return / Venting	G (IG)	1"	1"	1"	1"	1"
Cold water / hot water connection	G (IG)	1¼"	1¼"	1¼"	1¼"	1¼"
Thermometer / Sensor	G (IG)	½"	½"	½"	½"	½"
Connection Q, R, T, W and C	G (IG)	1½"	1½"	1½"	1½"	1½"
Return stratification / connection L	G (IG)	1¼"	1½"	1½"	1½"	1½"
Immersion sleeve inner diameter	mm	10	10	10	10	10
Heat exchanger surface solar bottom / top	m²	2,3 / -	3,0 / 2,0	3,0 / 3,0	3,0 / 3,5	5,5 / 4,2
Heat exchanger capacity solar bottom / top	Ltr.	9,8 / -	12,1 / 7,7	12,1 / 12,1	15,0 / 20,2	22,7 / 18,4
Heat exchanger area hot water	m²	5,6	7,1	7,1	8,2	9,4
max. operating overpressure hot water / solar	bar	10	10	10	10	10
max. operating overpressure heating water	bar	3	3	3	3	3
max. operating temperature	°C	95	95	95	95	95

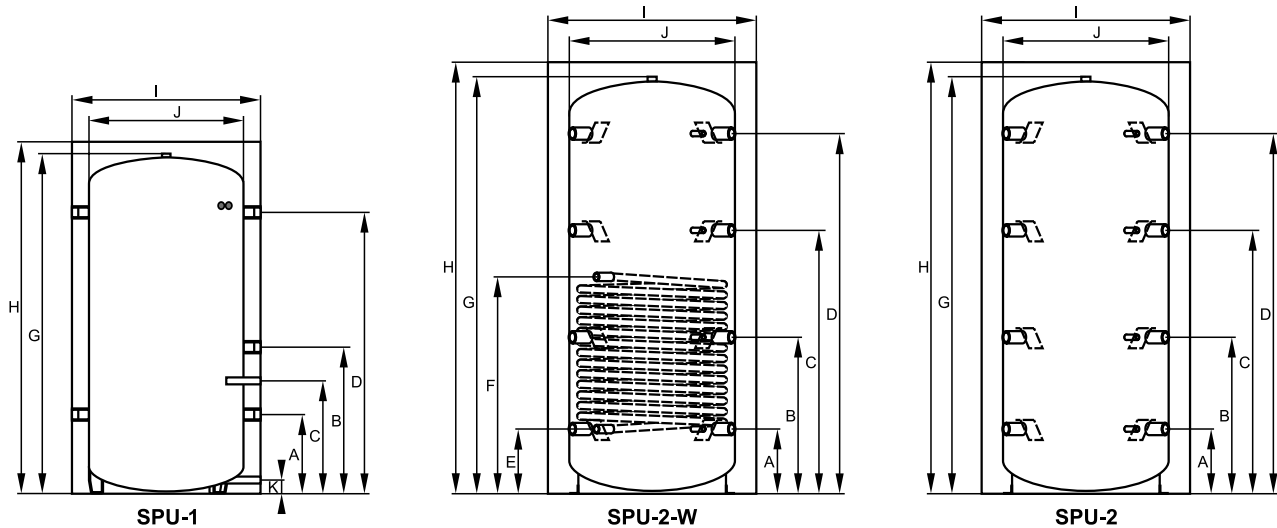
¹⁾ 10/45°C (Warm water temp.), 70°C (Puffertemp.)

Technical data

Buffer tank

SPU-1-200

SPU-2-W / SPU-2-500/800/1000/1500



TYPE		SPU-1 SPU-2(W)	200 -	- 500	- 800	- 1000	- 1500
Dimensions							
Connection / Thermometer / Sensor strip	A	mm	256	220	260	310	380
Connection / Thermometer / Sensor strip	B	mm	460	620	630	745	825
Immersion sleeve	C	mm	358	-	-	-	-
Connection / Thermometer / Sensor strip	C	mm	-	1010	1030	1250	1350
Connection / Thermometer / Sensor strip	D	mm	910	1390	1430	1710	1760
Return heating coil *	E	mm	-	220	260	310	375
Flow heating coil *	F	mm	-	715	845	1030	1175
Height without thermal insulation / venting	G	mm	-	1640	1700	2050	2150
Height with thermal insulation	H	mm	1140	1725	1785	2135	2235
Diameter with thermal insulation	I	mm	610	850	990	990	1200
Diameter without thermal insulation	J	mm	-	650	790	790	1000
Drainage	K	mm	85	-	-	-	-
Tipping dimension with thermal insulation		mm	1310	1910	2050	2360	2540
Tipping dimension without thermal insulation		mm	-	1670	1750	2090	2270
Weight							
Weight SPU-1		kg	48	-	-	-	-
Weight SPU-2-W		kg	-	113	133	149	256
Weight SPU-2		kg	-	87	109	130	205

Technical data

Buffer tank
SPU-1-200

SPU-2-W / SPU-2-500/800/1000/1500

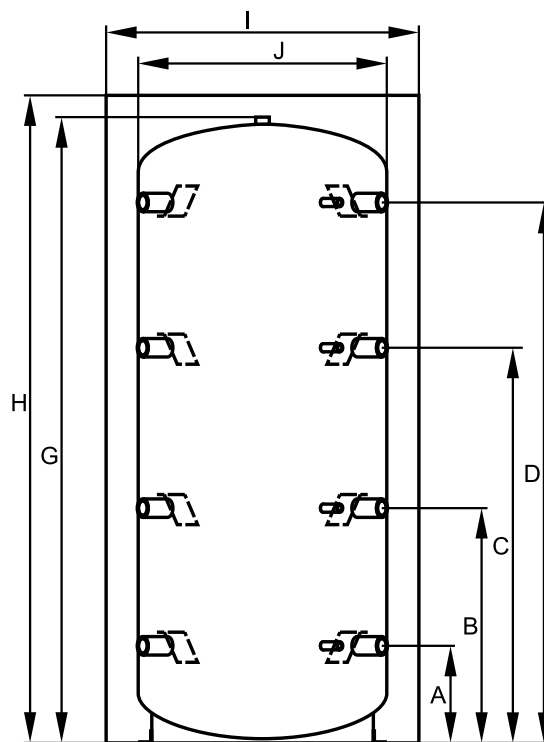
TYPE	SPU-1 SPU-2(W)	200 -	- 500	- 800	- 1000	- 1500
Technical data						
Memory content						
SPU-1	Ltr.	200	-	-	-	-
SPU-2-W	Ltr.	-	480	780	960	1500
SPU-2	Ltr.	-	490	795	980	1530
Standby heat consumption						
SPU-1	kWh/24h	1,55	-	-	-	-
SPU-2-W	kWh/24h	-	2,03	2,59	3,02	3,67
Connection (5 pieces)	Rp	1½"	-	-	-	-
Connection (8 pieces)	Rp	-	1½"	1½"	1½"	1½"
Immersion sleeve	Rp	½"	-	-	-	-
Thermometer (4 pieces)	Rp	-	½"	½"	½"	½"
Venting	Rp	1"	1½"	1½"	1½"	1½"
Drainage	Rp	½"	-	-	-	-
Heating coil connection *	Rp	-	1"	1"	1"	1"
Heat exchanger surface *	m²	-	1,8	2,4	3	3,6
heat exchanger capacity *	Ltr.	-	11	15	19	22
max. operating overpressure primary * / secondary	bar	- / 3	10 / 3	10 / 3	10 / 3	10 / 3
max. operating temperature primary * / secondary	°C	- / 95	110 / 95	110 / 95	110 / 95	110 / 95

* only for SPU-2-W

Technical data

Buffer tank

SPU-2-2000/3000/4000/5000



SPU-2

TYPE		SPU-2	2000	3000	4000	5000
Dimensions						
Connection / Thermometer / Sensor strip	A	mm	395	435	490	510
Connection / Thermometer / Sensor strip	B	mm	950	995	1050	1135
Immersion sleeve	C	mm	-	-	-	-
Connection / Thermometer / Sensor strip	C	mm	1510	1555	1610	1760
Connection / Thermometer / Sensor strip	D	mm	2070	2115	2170	2390
Return heating coil *	E	mm	-	-	-	-
Flow heating coil *	F	mm	-	-	-	-
Height without thermal insulation / venting	G	mm	2400	2480	2590	2830
Height with thermal insulation	H	mm	2480	2560	2670	2910
Diameter with thermal insulation	I	mm	1300	1450	1700	1800
Diameter without thermal insulation	J	mm	1100	1250	1500	1600
Drainage	K	mm	-	-	-	-
Tipping dimension with thermal insulation		mm	2800	2950	3150	3400
Tipping dimension without thermal insulation		mm	2550	2650	2850	3100
Weight						
Weight Device		kg	253	298	486	603

Technical data

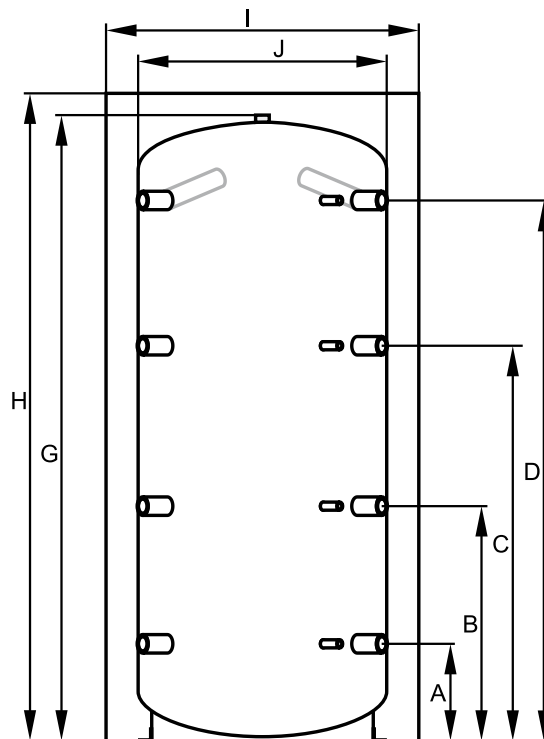
Buffer tank SPU-2-2000/3000/4000/5000

TYPE	SPU-2	2000	3000	4000	5000
Technical data					
Storage capacity	Ltr.	1950	2700	3950	4950
Standby heat consumption	kWh/24h	4,28	-	-	-
Connection (8 pieces)	Rp	2"	2"	2"	2"
Thermometer (4 pieces)	Rp	½"	½"	½"	½"
Venting	Rp	1¼"	1¼"	1¼"	1¼"
max. operating overpressure primary * / secondary	bar	- / 3	- / 3	- / 3	- / 3
max. operating temperature primary * / secondary	°C	- / 95	- / 95	- / 95	- / 95

* only for SPU-2-W

Technical data

Buffer tank
SPU-2-800/1000/1500plus



SPU-2 plus

TYPE		SPU-2plus	800	1000	1500
Dimensions					
Connection / Thermometer / Sensor strip	A	mm	260	310	380
Connection / Thermometer / Sensor strip	B	mm	630	745	825
Immersion sleeve	C	mm	-	-	-
Connection / Thermometer / Sensor strip	C	mm	1030	1250	1350
Connection / Thermometer / Sensor strip	D	mm	1430	1710	1760
Height without thermal insulation / venting	G	mm	1700	2050	2150
Height with thermal insulation	H	mm	1785	2135	2235
Diameter with thermal insulation	I	mm	990	990	1200
Diameter without thermal insulation	J	mm	790	790	1000
Drainage	K	mm	-	-	-
Tipping dimension with thermal insulation		mm	2050	2360	2540
Tipping dimension without thermal insulation		mm	1750	2090	2270
Weight					
Weight Gerät		kg	112	133	210

Technical data

Buffer tank SPU-2-800/1000/1500plus

TYPE	SPU-2plus	800	1000	1500
Technical data				
Storage capacity	Ltr.	795	980	1530
Standby heat consumption	kWh/24h	2,59	3,02	3,67
Connection (5 pieces)	Rp	-	-	-
Connection (8 pieces)	Rp	2"	2"	2"
Immersion sleeve	Rp	-	-	-
Thermometer (4 pieces)	Rp	½"	½"	½"
Venting	Rp	1½"	1½"	1½"
Drainage	Rp	-	-	-
max. operating overpressure / secondary	bar	3	3	3
max. operating temperature / secondary	°C	95	95	95

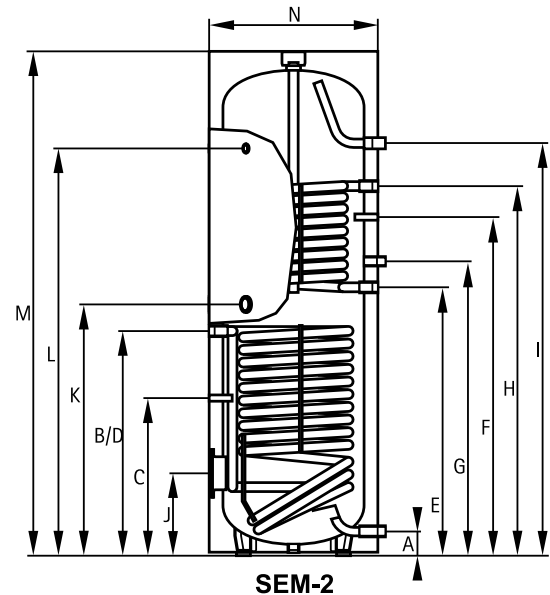
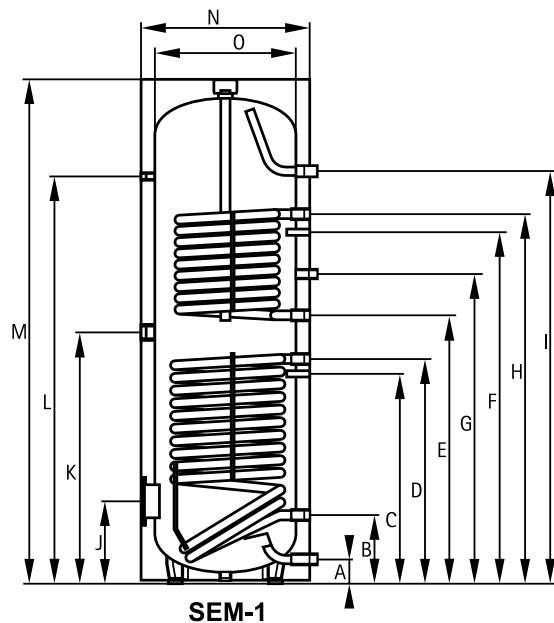
* only for SPU-2-W

Technical data

Hot water solar storage tank

SEM-1-500/750/1000

SEM-2-300/400



TYPE		SEM-1 SEM-2	- 300	- 400	500 -	750 -	1000 -
Dimensions							
Cold water connection	A	mm	90	55	99	220	220
Solar return	B	mm	815	874	305	345	345
Solar storage tank sensor	C	mm	506	416	586	603	603
Solar flow	D	mm	815	874	865	920	975
Heating return	E	mm	974	987	985	1025	1340
Storage tank sensor heating	F	mm	1154	1204	1160	1185	1500
Circulation	G	mm	1077	1092	1195	1290	1605
Heating flow	H	mm	1334	1335	1335	1475	1790
Hot water connection	I	mm	1728	1586	1451	1590	1940
Flange (bottom)	J	mm	324	275	335	384	384
Additional electric heater	K	mm	887	915	949	970	1145
Thermometer	L	mm	1504	1416	1404	1460	1810
Total height	M	mm	1794	1651	1780	1850	2200
Diameter with thermal insulation	N	mm	600	701	760	1000	1000
Diameter without thermal insulation	O	mm	-	-	-	800	800
Tipping dimension with thermal insulation		mm	1898	1820	1935	2030	2350
Weight							
Weight SPU-1		kg	130	159	182	290	350

Technical data

Hot water solar storage tank SEM-1-500/750/1000 SEM-2-300/400

TYPE	SEM-1 SEM-2	- 300	- 400	500 -	750 -	1000 -
Technical data						
Storage capacity	Ltr.	285	385	500	750	935
Standby heat consumption	kWh/24h	1,92	2,41	2,44	2,73	3,20
Permanent storage capacity 80/60-10/45°C (heating)	kW - Ltr./h	20 - 490	20 - 490	20 - 490	50 - 1200	50 - 1200
Primary hot water	bar/°C	10/110	10/110	10/110	10/110	10/110
Secondary hot water	bar/°C	10/95	10/95	10/95	10/95	10/95
Flange inner diameter	mm	114	114	114	114	114
Cold water connection	G (AG)	1"	1"	1"	1¼"	1¼"
Heating flow/return	G (IG)	1"	1"	1"	1¼"	1¼"
Solar flow/return	G (AG)	¾"	¾"	1"*	1¼"*	1¼"*
Circulation	G (AG)	¾"	¾"	¾"	1"	1"
Hot water connection	G (AG)	1"	1"	1"	1¼"	1¼"
Electric auxiliary heating	G (IG)	1½"	1½"	1½"	1½"	1½"
Thermometer	G (IG)	½"	½"	½"	½"	½"
Heat exchanger area (heating)	m²	1,0	1,2	1,0	1,5	1,5
Heat exchanger area (solar)	m²	1,6	1,8	1,8	2,1	2,4
Heat exchanger capacity (heating)	Ltr.	5,8	7,0	6,1	9,2	9,2
Heat exchanger capacity (solar)	Ltr.	9,4	13,0	11,5	13,5	14,5

*G (IG)

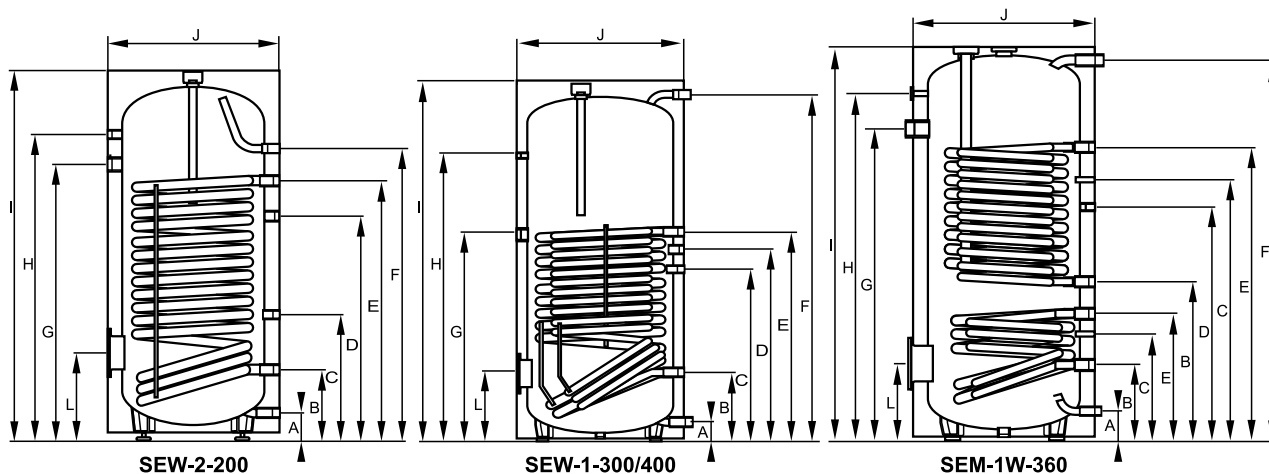
Technical data

Hot water tank / Hot water solar tank

SEW-1-300/400

SEW-2-200

SEM-1W-360



TYPE		SEW-1 SEW-2 SEM-1W	- 200 -	300 - -	400 - -	- - 360
Dimensions						
Cold water connection	A	mm	95	55	55	55
Return heating / solar	B	mm	245	222/-	222/-	606/221
Storage tank sensor heating / solar	C	mm	435	656/-	791/-	965/385
Circulation	D	mm	780	786	921	860
Flow heating / solar	E	mm	905	886/-	1156/-	1146/470
Hot water connection	F	mm	1015	1229	1586	1526
Additional electric heating (opt.)	G	mm	960	912	1174	1210
Thermometer connection	H	mm	1065	1069	1426	1355
Total height	I	mm	1290	1310	1660	1630
Diameter with insulation	J	mm	605	705	705	705
Maintenance flange	L	mm	302	277	277	276
Tilt dimension		mm	1410	1485	1805	1740
Weight						
Weight Gerät		kg	75	134	185	182

Technical data

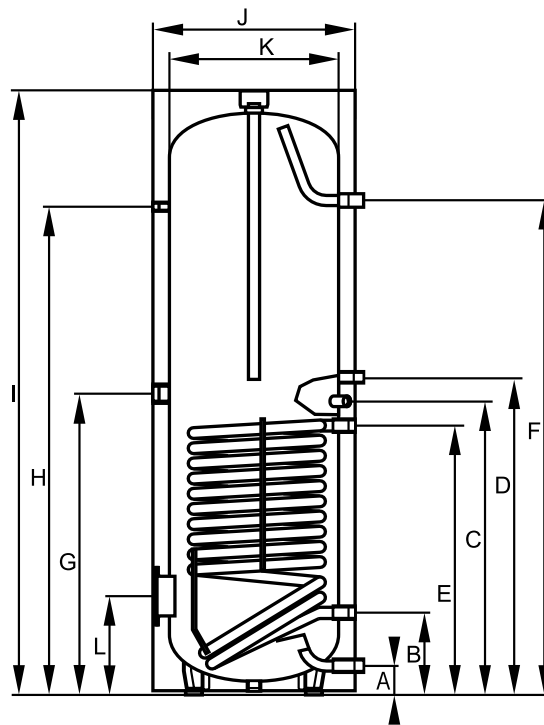
Hot water tank / Hot water solar tank
SEW-1-300/400
SEW-2-200
SEM-1W-360

TYPE	SEW-1 SEW-2 SEM-1W	- 200 -	300 -	400 -	- 360
Technical data					
Storage capacity	Ltr.	190	280	360	365
Standby heat input	kWh/24h	1,55	1,70	2,10	2,04
Storage tank continuous output tv 80/60°C - tww 10/45°C	kW - Ltr./h	20/490	90/2210	125/3070	90/2210
Performance index (heating)	N _{L60}	3,0	7,0	10,0	3,0
Performance index (heating)	N _{L50}	1,6	3,5	5,0	1,6
heating time 14kW - 10-50°C	min	60	58	75	71
Primary hot water	bar/°C	10/110	10/110	10/110	10/110
Secondary hot water	bar/°C	10/95	10/95	10/95	10/95
Flange inner diameter	mm	DN 110	DN 110	DN 110	DN 110
Cold water connection	G (AG)	1"	1¼"	1¼"	1"
Return heating / solar	G (AG)	1"	1¼"	1 ¼"	1¼"
Circulation	G (AG)	¾"	¾"	¾"	¾"
Flow heating / solar	G (AG)	1¼"	1¼"	1¼"	1¼"
Hot water connection	G (AG)	1"	1¼"	1¼"	1"
Protective anode	G (IG)	1½"	1¼"	1¼"	1¼"
Additional electric heater	G (IG)	1½"	1½"	1½"	1½"
Immersion sleeve Storage tank sensor (mounted)	G (IG)	½"	½"	½"	20×2
Thermometer	G (IG)	½"	½"	½"	½"
Heat exchanger surface heating / solar	m²	2,0/-	3,5/-	5,1/-	3,2/1,3
Heat exchanger capacity heating / solar	Ltr.	112/-	22/-	34/-	27/11

* only for SPU-2-W

Technical data

Hot water tank
SE-2-150/200/300/400/500/750



TYPE		SE-2	150	200	300	400	500	750
Dimensions								
Cold water connection	A	mm	90	90	85	85	85	120
Heating return	B	mm	255	255	263	320	370	380
Storage tank sensor heating	C	mm	603	720	898	960	1010	1156
Circulation	D	mm	665	800	983	1000	1095	860
Flow heating	E	mm	730	650	818	880	930	1025
Hot water connection	F	mm	930	1194	1523	1525	1500	1580
Additional electric heating	G	mm	550	685	983	1000	1095	1080
Thermometer	H	mm	760	1024	1507	1521	1498	1485
Total height	I	mm	996	1260	1755	1800	1806	1982
Diameter with thermal insulation	J	mm	600	600	600	670	750	990
Diameter without thermal insulation	K	mm	-	-	-	-	-	790
Flange (bottom)	L	mm	325	325	305	345	370	415
Tilt dimension with thermal insulation		mm	1150	1350	1860	1925	1960	1940
Weight								
Weight		kg	53	65	115	145	160	260

Technical data

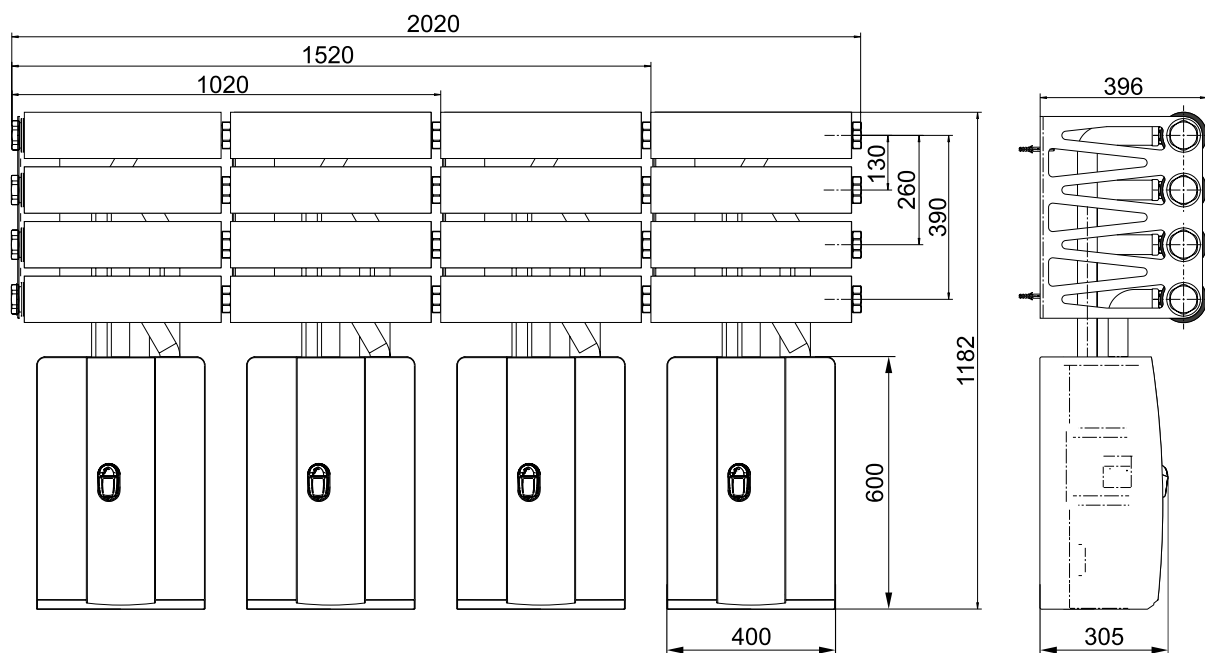
Hot water tank SE-2-150/200/300/400/500/750

TYPE	SE-2	150	200	300	400	500	750
Technical data							
Storage tank capacity	Ltr.	140	195	285	380	485	750
Standby heat consumption	kWh/24h	1,17	1,36	2,19	2,45	2,72	2,66
Continuous storage tank capacity 80/60-10/45°C	kW - Ltr./h	28-700	28-700	40-1000	45-1100	53- 300	60-1500
Performance index	N _L	2,0	3,5	7,5	11,0	15,0	24,0
Primary hot water	bar/°C	10/110	10/110	10/110	10/110	10/110	10/110
Secondary hot water	bar/°C	10/95	10/95	10/95	10/95	10/95	10/95
Flange inner diameter	mm	110	110	120	120	120	178
Cold water connection	G (AG)	1"	1"	1"	1"	1"	1½"
Return heating	G (IG)	1"	1"	1"	1"	1"	1¼"
Circulation	G (AG)	¾"*	¾"*	¾"	¾"	1"	1¼"
Flow heating	G (IG)	1"	1"	1"	1"	1"	1¼"
Hot water connection	G (AG)	1"	1"	1"	1"	1"	1½"
Additional electric heating	G (IG)	1½"	1½"	1½"	1½"	1½"	1½"
Thermometer	G (IG)	½"	½"	½"	½"	½"	½"
Heat exchanger area	m²	1,0	1,0	1,4	1,8	2,0	2,7
Heat exchanger capacity	Ltr.	6,8	6,8	8,9	11,5	12,6	22,5

*R(AG)

Technical data

Fresh water station FWS-2-60
FWS-2-80 (CASCADE)



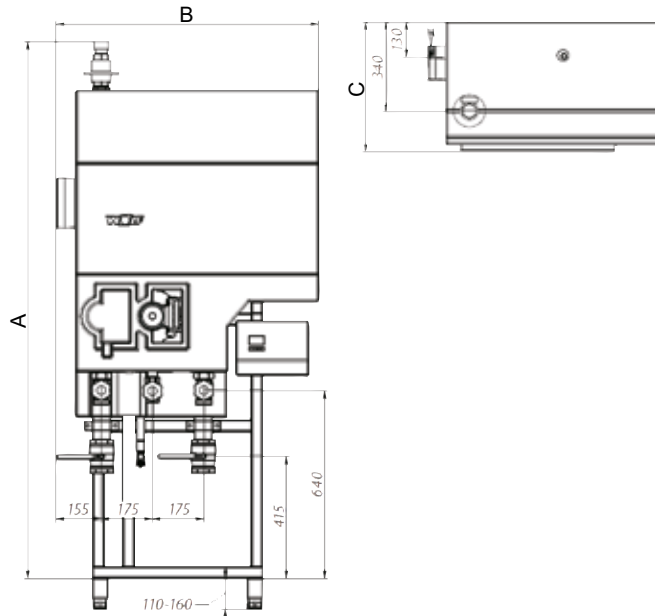
TYPE	FWS-2	60	80
Technical data			
Performance indicator	N _L	2,5	8,5
Hot water output	Ltr./min	15*	27
70 °C buffer VL, 10/60 °C cold/hot water	Ltr./min	25*	40
65 °C buffer VL, 10/45 °C cold/hot water	Ltr./min	-	25
50 °C buffer VL, 10/45 °C cold/hot water	bar	3	3
max. operating pressure heating	bar	10	10
max. operating pressure water	°C	95	95
max. operating temperature	W	45	48
Power consumption		230V / 50Hz	230V / 50Hz
Electrical connection	kg	17	20
Weight			

* with factory thermostat setting 3.25

TYPE	FWS-2-80 CASCADE	x2	x3	x4
Technical data				
Nominal power	kW	174	268	330
Performance index	N _L	27	54*	75
Cold / hot water connection	G	2"	2"	2"
Heating supply / return	G	2"	2"	2"
Temperatures primary VL / secondary KW/WW	°C	70 / 10/60	70 / 10/60	70 / 10/60
Continuous power secondary at 60°C	Ltr./min	50	77	95
max. perm. operating pressure primary	W	3	3	3
max. perm. operating pressure secondary	kg	10	10	10
Electrical power consumption		97	145	193
Electrical connection		230V / 50Hz	230V / 50Hz	230V / 50Hz

Technical data

Fresh water station FWS-2/140/350/455 MAX



TYPE		FWS-2 max	140	350	455
Dimensions					
Height	A*	mm	1890	1962	1962
Width	B	mm	847	935	935
Depth	C	mm	488	488	488
Weight					
Weight device (empty)		kg	79	91	101
Technical data					
Nominal power		kW	140	350	455
Performance index		N _L	18	81	119
Cold / hot water connection		G	1¼" A	1½" A	1¾" A
Circulation		G	1¼" A	1¼" A	1¼" A
Heating supply / return		Rp	1¼"	1½"	2"
Temperatures primary VL / secondary KW/WW		°C	70 / 10/60	70 / 10/60	70 / 10/60
Heating water quantity primary		m³/h	2,4	6,3	8
Continuous output secondary at 60°C		l/h	2400	6000	7800
Pressure loss primary / secondary		mbar	85 / 120	214 / 330	161 / 390
Residual head primary pump**		mbar	520	726	726
Max. Circulation volume flow		m³/h	2,4	3,4	3,4
Pressure loss circulation		mbar	39	79	116
max. perm. operating pressure primary / secondary		bar	10 / 10	10 / 10	10 / 10
Max. perm. operating temperature primary / secondary		°C	90 / 90	90 / 90	90 / 90
Electrical power consumption max.		W	187	410	410
Electrical connection			230 V / 50 Hz	230 V / 50 Hz	230 V / 50 Hz

*at 130mm foot height

**at pump setting max. = 100%



Technical data

WOLF

Domestic Ventilation System

Domestic Ventilation System		Page 344
CWL-2-225	Domestic ventilation system with heat recovery	Page 344
CWL-2-325/400	Domestic ventilation system with heat recovery	Page 345
CWL-180 Excellent	Domestic ventilation system with heat recovery	Page 346
CWL-300/400 Excellent	Domestic ventilation system with heat recovery	Page 347
CWL-T Excellent	Domestic ventilation system with heat recovery	Page 348
CWL-F Excellent	Domestic ventilation system with heat recovery	Page 349
Decentral Domestic Ventilation System		Page 350
CWL-D	Decentral domestic ventilation system with heat recovery	Page 350
Accessories CWL-D		Page 351
WRS-2 Control Systems / Control Accessories		Page 352
WRS-2 Control System		Page 352
Control Accessories		Page 353
Accessories		Page 356
Accessories		Page 356
ISO Pipe System		Page 358
Roof Connections		Page 359
Out- and exhaust air connections		Page 360
Silencer		Page 362
Air distributor for CWL Excellent and CWL-2		Page 363
Accessories air distributor		Page 365
Flexible round hose system for CWL Excellent and CWL-2		Page 366
Accessories flexible hose system round and flat duct		Page 368
Flat duct system for CWL Excellent and CWL-2		Page 369
Supply / exhaust air valves for CWL Excellent and CWL-2		Page 371
Filters		Page 372
FWL-PushPull		Page 374
FWL PushPull 45 (RC)		Page 374
FWL PushPull 30 (RC)		Page 375
Accessories		Page 376
Technical Data		Page 382



CWL-2-225

Domestic ventilation system with heat recovery



RG | H35

TypeE	CWL-2	225
Energy efficiency class ¹⁾	A+ → F	A
Max. air flow rate	m³/h	225
Max. power consumption	W	8 – 92,2
Heat recovery efficiency max.	%	98
Dimensions		
Duct connection diameter	mm	125
Height	mm	650
Width	mm	600
Depth	mm	455
Weight	kg	32
4/O L	Art. no.	2139776
	€	3460.00
4/O R	Art. no.	2139777
	€	3460.00

¹⁾ A+ with minimum two sensors

- The domestic ventilation system offers energy saving and convenient ventilation all year round. Suitable for apartments, detached houses and apartment buildings. The heat in the extract air is extracted by the cross- and countercurrent heat exchanger made from plastic and transferred to the fresh supply air.
- Clean, pollen-free fresh air – airing with your windows closed, excluding street noise (not only beneficial for those suffering from allergies)
- Automatic frost protection control
- Constant flow fans
- Low energy consumption through DC fans
- BM-2 for operation (optional)
- Electric preheating coil 1000 W integrated in the unit Bypass as standard
- ISO Coarse 60% (G4) / ePM1 50% (F7) filter grade as optional accessory
- Unit fully wired. Filter change indicator on the unit, the programming unit or at the 4-step switch.
- Passive House certificate, DIBt approval applied for
- incl. ball trap
- With WOLF Link Home casing for additional PCB required, part no. 2747551.



CWL-2-325/400

Domestic ventilation system with heat recovery



RG | H35

TypeE	CWL-2	325	400
Energy efficiency class ¹⁾	A+ → F	A	A
Max. air flow rate	m ³ /h	325	400
Max. power consumption	W	6 – 145	8 – 178
Heat recovery efficiency max.	%	98	99
Dimensions			
Duct connection diameter	mm	160	180
Height 4/0	mm	650	650
Height 2/2	mm	710	710
Width	mm	750	750
Depth	mm	560	560
Weight	kg	37	37
4/0 R Enthalpie	Art. no.	2139588*	
	€	6500.00	
4/0 R	Art. no.	2139586	2139592
	€	3860.00	4575.00
4/0 L Enthalpie	Art. no.	2139587*	
	€	6500.00	
4/0 L	Art. no.	2139585	2139591
	€	3860.00	4575.00
2/2 R	Art. no.		2139774
	€		4575.00
2/2 L	Art. no.		2139773
	€		4575.00

* Delivery time on request

¹⁾ A+ with minimum two sensors

- The domestic ventilation system offers energy saving and convenient ventilation all year round. Suitable for apartments, detached houses and apartment buildings. The heat in the extract air is extracted by the cross- and countercurrent heat exchanger made from plastic and transferred to the fresh supply air.
- Clean, pollen-free fresh air – airing with your windows closed, excluding street noise (not only beneficial for those suffering from allergies)
- Automatic frost protection control
- Constant flow fans
- Low energy consumption through DC fans

- BM-2 for operation (optional)
- Electric preheating coil 1000 W integrated in the unit Bypass as standard
- ISO Coarse 60% (G4) / ePM1 50% (F7) filter grade as optional accessory
- Unit fully wired. Filter change indicator on the unit, the programming unit or at the 4-step switch.
- Passive House certificate, DIBt approval applied for
- incl. ball trap
- With WOLF Link Home casing for additional PCB required, part no. 2747551.

The above mentioned prices are without obligation and without VAT.



WOLF DOMESITC VENTILATION SYSTEM

351



CWL-180 Excellent Domestic ventilation system with heat recovery



RG | H35

TypeE	CWL Excellent	180
Energy efficiency class ¹⁾	A+ → F	B
Max. air flow rate	m³/h	180
Max. power consumption	W	16 – 132
Heat recovery efficiency max.	%	92
Dimensions		
Duct connection diameter	mm	125
Height	mm	600
Width	mm	560
Depth	mm	315
Weight	kg	25
4/0 L	Art. no.	2137995*
	€	2980.00
4/0 R	Art. no.	2137994
	€	2980.00

* Delivery time on request

¹⁾ A with time switch and minimum one sensors

- The domestic ventilation system offers energy-saving and convenient ventilation all year.
- Suitable for apartments, detached houses, apartment blocks and offices.
- The heat in the extract air is extracted by the cross- and counter-flow heat exchanger and supplied to the fresh supply air.
- Compact design for wall mounting
- Clean, pollen-free fresh air – airing with your windows closed, excluding street noise (not only for those suffering from allergies)
- Removable cross countercurrent plate-Typee heat exchanger made from plastic
- Automatic frost stat control
- Constant flow fans
- Low energy consumption through DC fans
- BM-2 for operation(optional)
- Fully wired.
Filter change requirement indicated at the device, the programming unit or at the 4-step switch.



CWL-300/400 Excellent Domestic ventilation system with heat recovery



RG | H35

TypeE	CWL Excellent	300	400
Energy efficiency class ¹⁾	A+ → F	A	A
Max. air flow rate	m ³ /h	300	400
Max. power consumption	W	3 – 138	3 – 172
Heat recovery efficiency max.	%	89	93
Dimensions			
Duct connection diameter	mm	160	180
Height	mm	765	765
Width	mm	677	677
Depth	mm	564	564
Weight	kg	38	38
4/0 L	Art. no.	2137990	2137942
	€	3490.00	4195.00
4/0 R	Art. no.	2137992	2137939
	€	3490.00	4195.00

* Delivery time on request

¹⁾ A+ with minimum two sensors

- The domestic ventilation system offers energy saving and convenient ventilation all year round. Suitable for apartments, detached houses and apartment buildings. The heat in the extract air is extracted by the cross- and countercurrent heat exchanger and transferred to the fresh supply air.
- Compact design for wall mounting
- Clean, pollen-free fresh air – airing with your windows closed, excluding street noise (not only beneficial for those suffering from allergies)
- Removable cross- and countercurrent heat exchanger made from plastic
- Automatic frost protection control
- Constant flow fans
- Low energy consumption through DC fans
- BM-2 for operation (optional)
- Electric preheating coil 1000 W integrated in the unit Bypass as standard
- ISO Coarse 60% (G4) / ePM1 50% (F7) filter as optional accessory
- Unit fully wired. Filter change indicator on the unit, the programming unit or at the 4-step switch.
- DIBt approval and Passive House certificate



CWL-T Excellent Domestic ventilation system with heat recovery



RG | H35

TypeE	CWL-T Excellent	300
Energy efficiency class ¹⁾	A+ → F	A
Max. air flow rate	m ³ /h	300
Max. power consumption	W	10 – 164
Heat recovery efficiency max.	%	93
Dimensions		
Duct connection diameter	mm	160
Height	mm	1288
Width	mm	475
Depth	mm	586
Weight	kg	50
4/0 L	Art. no.	2138103
	€	3520.00

¹⁾ A+ with minimum two sensors

- The domestic ventilation system offers energy saving and convenient ventilation all year round. Suitable for apartments, detached houses and apartment buildings. The heat in the extract air is extracted by the cross- and countercurrent heat exchanger and transferred to the fresh supply air.
- Compact design for floorstanding installation
- Clean, pollen-free fresh air – airing with your windows closed, excluding street noise (not only beneficial for those suffering from allergies)
- Removable cross- and countercurrent heat exchanger made from plastic
- Bypass as standard
- Automatic frost protection control
- Constant flow fans
- Low energy consumption through DC fans
- Incl. trap
- Electric preheating coil 1000 W integrated in the unit
- ISO Coarse 60% (G4) / ePM1 50% (F7) filter as optional accessory
- Fully wired. Filter change indicator on the programming unit or the 4-step switch
- DIBt approval and Passive House certificate
- Hydraulic reheating coil (optional)
- **Note:** BM-2/RM-2 is required for operation

CWL-F Excellent Domestic ventilation system with heat recovery



RG | H35

TypeE	CWL-F Excellent	150	300
Energy efficiency class ¹⁾	A+ → F	A	A
Max. air flow rate	m ³ /h	150	300
Max. power consumption	W	11 – 72	9 – 163
Heat recovery efficiency max.	%	94	92
Dimensions			
Duct connection diameter	mm	125	160
Height	mm	1000	1185
Width	mm	660	644
Depth	mm	198	310
Weight	kg	25	37
without preheater	Art. no.	2138091*	2138098
	€	2975.00	3395.00
with preheater	Art. no.	2138099	
	€	3100.00	

* Delivery time on request

¹⁾ CWL-F-150 Excellent in combination with BM-2 | CWL-F-300 Excellent A+ with minimum two sensors

- The domestic ventilation system with integral bypass offers energy saving and convenient ventilation all year round. Suitable for apartments, detached houses and apartment buildings. The heat in the extract air is extracted by the cross- and countercurrent heat exchanger and transferred to the fresh supply air.
- Compact design for ceiling and wall mounting
- Clean, pollen-free fresh air – airing with your windows closed, excluding street noise (not only beneficial for those suffering from allergies)
- Removable cross- and countercurrent heat exchanger made from plastic
- Bypass as standard
- Automatic frost protection control
- Constant flow fans
- Low energy consumption through DC fans
- For CWL-F-150 Excellent, electric preheating coil 375 W integrated in the unit
- ISO Coarse 60% (G4) / ePM1 50% (F7) filter as optional accessory
- Unit fully wired. Filter change indicator on the unit, the programming unit or at the 4-step switch.
- DIBt approval and Passive House certificate
- **Note:** BM-2/RM-2 is required for operation

CWL-D

Decentral domesitc ventilation system with heat recovery







RG | H35





TypeE	CWL-D	70
Energy efficiency class	A+ → F	A
Max. air flow rate	m³/h	70
Heat recovery efficiency max.	%	87
Dimensions		
Diameter unit	mm	250
Tapping drill hole	Ø mm	260 (with 3° fall towards the outside)
for wall thicknesses with accessories	mm	300-500
for wall thickness not incl. accessories	mm	500-600
Weight	kg	14
Outside wall hood stainless steel	Art. no.	2138513
	€	1660.00
Outside wall hood white (RAL9010)	Art. no.	2138512
	€	1660.00

- White internal panel
- Clean, pollen-free fresh air – airing with your windows closed, excluding street noise (not only beneficial for those suffering from allergies)
- Removable plastic countercurrent heat exchanger
- Bypass as standard
- Automatic frost protection control
- Low energy consumption through DC fans
- Electric preheating coil 175 W integrated in the unit
- ISO Coarse 60 % (G4) / ePM1 50 % (F7) filter as optional accessory for supply air
- Unit fully wired.
Filter change indicator on the unit
- DIBt approval applied for






Accessories CWL-D

	Description	for product	Art. no.	DG	€
	Extension 50 mm For wall thicknesses 500 - 450 mm				
	White (RAL 9010) Stainless steel		2577710 2577711	H36 H36	126.00 173.00
	Extension 100 mm For wall thicknesses 450 - 400 mm				
	White (RAL 9010) Stainless steel		2577616 2577617	H36 H36	129.00 182.00
	Extension 150 mm For wall thicknesses 400 - 350 mm				
	White (RAL 9010) Stainless steel		2577708 2577709	H36 H36	127.00 200.00
	Extension 200 mm For wall thicknesses 350 - 300 mm				
	White (RAL 9010) Stainless steel		2577614 2577615	H36 H36	142.00 203.00
	Additional PCB (Required for connecting sensors)		2577618	H36	204.00
	Internal CO2 sensor	Additional PCB CWL-D-70	2577619	H36	515.00
	Internal moisture sensor	Additional board CWL-D-70	2577620	H36	366.00
	filter set 2 pce. ISO Coarse 60 % (G4) and 1 pce. ISO Coarse 60 % (G4)		1669246	H36	40.00
	Filter set 2 pce. ISO Coarse 60 % (G4) and 1 pce. ePM1 50 % (F7)		1669247	H36	67.00







WRS-2 control systems

	Description	for product	Art. no.	DG	€
	BM-2 programming unit <ul style="list-style-type: none"> Central operating module for WOLF heat generators of the WRS-2 generation Room/weather-compensated temperature controller for installation in heat generators / additional modules or in wall sockets for remote control with time programs for heating, hot water and circulation intuitive menu guidance with plain text display and 3.5" colour display Commissioning assistant with automatic detection of plant components Support of 5 heat generators with KM-2 Adjustment of heating and cooling curves Can be used as remote control for CWL Excellent / CWL-2 Compatible with WOLF Smartset 				
	without outdoor temperature sensor, BM-2 black	CWL Excellent, CWL-2, CWL-F/T-Excellent	2745306	H41	452.00
	incl. outdoor temperature sensor, BM-2 white	CWL Excellent, CWL-2, CWL-F/T-Excellent	2745927	H41	489.00
	Wall mounting base for BM-2 For using the BM-2 programming unit as a remote control	BM-2			
	black white		1731129 1731442	H41 H41	33.80 33.80
	Room module RM-2 4 in 1: Automatic recognition of the function based on system components: <ul style="list-style-type: none"> Room temperature controller with daily/weekly program Remote control for living room ventilation CWL Excellent / CWL 2 (at the same time as room temperature control) Remote control of all heating or mixing circuits (with BM/BM-2 in the system) Remote control for up to 7 individual heating circuits with several RM-2 (with BM/BM-2 in the system) Illuminated touch screen Integrated room temperature sensor Connection via eBus interface Many functions: Holiday mode, fault messages, temperature displays etc. Compatible with WOLF Smartset 	CWL Excellent, CWL-2, CWL-F/T-Excellent			
	RM-2 (eBus)		2747657	H41	252.00
	RM-2 Wireless		2747658	H41	298.00
	Base Wireless <ul style="list-style-type: none"> Wireless receiver with eBus connection for the heat generator or domestic ventilation. For wireless communication with RM-2 Wireless or outdoor temperature sensor Wireless 	RM-2 Wireless Outdoor sensor wireless	2747659	H41	228.00

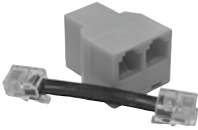






Control accessories

	Description	for product	Art. no.	DG	€
	Air quality sensor (VOC) Mixed gas sensor to measure the air quality; output signal 0 - 10 V, power supply 24 V <ul style="list-style-type: none"> With the CWL-180 Excellent and CWL-F-300 Excellent, extension kit for additional functions is required, part no. 2745273. With the CWL-2 Excellent, Additional PCB for additional functions is required, part no. 2747550. 	CWL Excellent, CWL-2, CWL-F/T-Excellent	2744756	H41	565.00
	Humidity sensor For measuring the relative humidity; output signal 0 - 10 V, power supply 24 V <ul style="list-style-type: none"> With the CWL-180 Excellent and CWL-F-300 Excellent, extension kit for additional functions is required, part no. 2745273. With the CWL-2 Excellent, Additional PCB for additional functions is required, part no. 2747550. 	CWL Excellent, CWL-2, CWL-F/T-Excellent	2745192	H41	340.00
	Surface mounted CO2 sensor For measuring the CO ₂ content, output signal 0 - 10 V, power supply 24 V <ul style="list-style-type: none"> With the CWL-180 Excellent and CWL-F-300 Excellent, extension kit for additional functions is required, part no. 2745273. With the CWL-2 Excellent, Additional PCB for additional functions is required, part no. 2747550. 	CWL Excellent, CWL-2, CWL-F/T-Excellent	2744854	H41	765.00
	Flush mounted eBus CO2 sensor For measuring the CO ₂ content, output signal 0 - 10 V, power supply 24 V Note: 4 pcs. max. can be connected per unit.	CWL Excellent, CWL-2, CWL-F/T-Excellent	2745666	H41	790.00
	Wolf Link Home LAN / WLAN interface module Consisting of: WOLF LINK HOME interface module, connection cable, installation / operating instructions, network cable <ul style="list-style-type: none"> Integrated LAN and WLAN interfaces for integration of WOLF heating systems in one network, or For WOLF heating device connections to the Wobulter Smarthome system Note: To obtain full access to both functions and operation a programming module BM-2 is recommended. Casing for additional PCB is required, part no. 2747551.	TOB, MGK-2, CGB-2 Thermen/Zentralen, CWL-2	2746365	H41	270.00





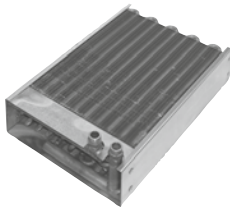

Control accessories

	Description	for product	Art. no.	DG	€
	Wolf Link Pro - LAN / Wlan interface module external Consisting of: ISM7e / WOLF Link Pro interface module, installation / operating instructions, eBus cable, power supply unit, network cable <ul style="list-style-type: none"> • LAN and WLAN interface module for wall mounting or mobile use of Wolf heating and ventilation devices • Connection of WOLF heating appliances to the WOLF Smartset portal / app • Use for parameterising compatible WOLF devices • Power supply via power supply unit or USB <p>Note: To obtain full access to both functions and operation a programming module BM-2 is recommended.</p>	CWL Excellent, CWL-2, CWL-F/T-Excellent	2746366	H41	505.00
	KNX external interface kit Interface kit for integration of WOLF ventilation units into a KNX network Consisting of: Interface module ISM8e, KNX-IP-BAOS module, installation and operating instructions, network cable	CWL Excellent, CWL-2, CWL-F/T-Excellent	2745738	H41	1330.00
	Modbus external interface kit Interface kit for integration of WOLF ventilation units into a Modbus network (RS 485)	CWL Excellent, CWL-F/T-Excellent	2745805	H41	630.00
	Extension kit for additional functions 9-pole plug-in connection for connecting a <ul style="list-style-type: none"> • reheating coil • air quality sensor • humidity sensor • smoke detector 	CWL-180 Excellent, CWL-F-300 Excellent	2745273	H41	142.00
	Additional PCB when using humidity sensors, CO2 sensors and air quality sensors; Normally closed/normally open contact 0 - 10 V input, 24 V output <p>Note: Casing for additional PCB is required, part no. 2747551.</p>	CWL-2	2747550	H36	580.00
	Casing for additional PCB <p>Note: When using the WOLF LinkHome, the housing for the additional board is required, but not the additional board itself.</p>	Additional PCB CWL-2, WOLF Link Home	2747551	H36	46.00


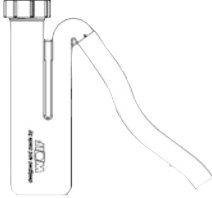




Control accessories

	Description	for product	Art. no.	DG	€
	RJ12 modular distributor Consisting of: Cable and splitter		2745312	H41	46.00
	RH duct sensor For measuring relative humidity	CWL Excellent, CWL-2, CWL-F/T-Excellent	2745372	H41	379.00
	CWL service tool For an straightforward parameter settings Free software can be found on our home-page.	CWL Excellent, CWL-2, CWL-F T-Excellent	2577544	H41	420.00
	4-stage switch with filter replacement indicator Note: Connecting cable, black necessary.		2744518	H41	126.00
	Surface mounted housing for 4-stage switch		2744519	H41	75.00
	4-stage remote control with filter replacement indicator consisting of transmitter and receiver		2747566	H36	805.00
	Black connecting cable For 4-step switch 5 m (2 x RJ12/6) 10 m (2 x RJ12/6) 15 m (2 x RJ12/6)		2744520 2744521 2744522	H41 H41 H41	33.00 48.00 67.00









Accessories

	Description	for product	Art. no.	DG	€
	Electrical preheating coil 1000 W				
	DN 125	CWL-180 Excellent, CWL-F-150 Excellent	2745444	H36	488.00
	DN 160	CWL-F-300 Excellent	2745259	H36	488.00
	Electrical reheating coil 1000 W				
	<ul style="list-style-type: none"> Extension kit for additional functions with the CWL-180 Excellent and CWL-F-300 Excellent art. no. 2745273 is required DN 160/125 reducers art. no. 2575793 is required with the CWL-180 Excellent 				
	DN 125	CWL-180 Excellent, CWL-F-150 Excellent	2745445	H36	505.00
	DN 160	CWL-300-Excellent, CWL-F/T-300-Excellent	2745258	H36	505.00
	DN 180	CWL-400 Excellent	2745206	H36	510.00
	Pre- and post-heating coil 1000W				
	DN 125	CWL-2-225	2748284	H36	710.00
	DN 160	CWL-2-325	2747549	H36	735.00
	DN 180	CWL-2-400	2747583	H36	780.00
	Enthalpy heat exchanger for moisture recovery				
		CWL-300/400 Excellent	2071748	H36	2360.00
		CWL-F-300 Excellent	2071749	H36	2140.00
		CWL-2-325/400	2074859	H36	2855.00
	Hydraulic reheating coil 3000W				
	Incl. flow valve with thermostatic head, remote sensor, automatic air vent valve and corrugated stainless steel pipes	CWL-T Excellent	2745587	H36	1170.00
	Condensate pump with potential-free, fully wired alarm output				
	Consisting of: Condensate pump with floating alarm output, condensate tank with lid and wall retainer, PVC hose 10 mm (6 m long), non-return valve, condensate inlet adaptor	CWL Excellent, CWL-2, CWL-F/T-Excellent	2071268	H40	290.00



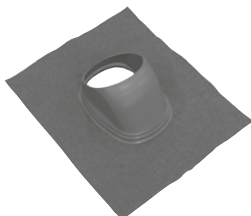



Accessories

	Description	for product	Art. no.	DG	€
	Summer cassette Alternative to in-line heat exchangers without heat recovery	CWL-180 Excellent	2137931	H36	220.00
	Trap Effective height 90 mm	CWL-300/400 Excellent	8611033	H36	23.70
	Ball trap	CWL-300/400 Excellent	2577348	H36	130.00
	Ball trap	CWL-F Excellent	2577580	H36	143.00
	Mounting Stand	CWL-2-225	2139816	H36	270.00
		CWL-2-325 4/0	2139599	H36	280.00
		CWL-2-400 4/0			
		CWL-2-325 2/2	2139815	H36	270.00
	Front Plate Mounting Stand	CWL-2-225	2139817	H36	105.00
		CWL-2-325/400	2139600	H36	126.00

ISO pipe system

	Description	for product	Art. no.	DG	€
	Insulated duct Length 200 mm				
	DN 125	unit size 180, F-150	2577369	H36	81.00
	DN 160	unit size (F/T-)300, unit size 300/325 SWP	2577362	H36	81.00
	DN 180	unit size 400	2577371	H36	102.00
	DN200	unit size 450/600	2577975	H36	165.00
	Insulated duct 90° bend				
	DN 125	unit size 180, F-150	2576009	H36	29.10
	DN 160	unit size (F/T-)300, unit size 300/325 SWP	2577363	H36	29.10
	DN 180	Sizes 180, F-150	2576011	H36	35.40
	DN 200	unit size 450/600	2577976	H36	70.00
	Insulated duct 45° bend				
	DN 125	unit size 180, F-150	2576012	H36	21.70
	DN 160	unit size (F/T-)300, unit size 300/325 SWP	2577364	H36	21.70
	DN 180	unit size 400	2576014	H36	28.10
	DN 200	unit size 450/600	2577977	H36	58.00
	ISO pipe T-piece				
	DN 125	unit size 180, F-150	2576019	H36	62.00
	DN 160	unit size (F/T-)300, unit size 300/325 SWP	2577572	H36	74.00
	Insulated duct Y-piece 45°	unit size 400	2575792	H36	129.00
	DN 180				
	Reducer				
	DN 160/125	ISO pipe	2577404	H36	23.80
	DN 180/160	ISO pipe	2577463	H36	23.80
	DN 180/125	ISO pipe	2575795	H36	23.80
	DN 200	ISO pipe	2577978	H36	60.00
	Locking ring for insulated duct One locking ring is required for each connection				
	DN 125	ISO pipe	2576020	H36	9.00
	DN 160	ISO pipe	2577365	H36	9.00
	DN 180	ISO pipe	2576022	H36	9.90
	DN 200	ISO pipe	2577979	H36	23.00
	Installation knife with special serrated blade For trimming pipes to length quickly and cleanly	ISO pipe	1730534	H36	57.00

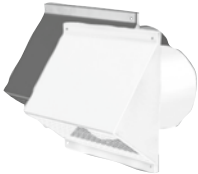

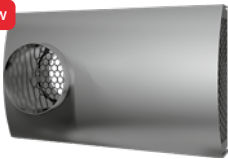
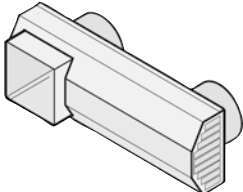
Roof connections

	Description	for product	Art. no.	DG	€
 DN 125 DN 160	Thermally insulated roof outlet Length 1159 mm				
	DN 125, black	unit size 180, F-150	2575801	H36	201.00
	DN 125, red	unit size 180, F-150	2576999	H36	201.00
	DN 160, black	unit size (F/T-) 300, unit size 325	2575802	H36	201.00
	DN 160, red	unit size (F/T-) 300, unit size 325	2577000	H36	201.00
	DN 180, black	unit size 400	2575803	H36	222.00
	Sealing collar	roof outlet	2577006	H36	48.00
	Universal roof tile 25° to 45°				
	DN 125, DN 160, black	roof outlet	2577001	H36	102.00
	DN 125, DN 160, Red	roof outlet	2577003	H36	102.00
	DN 180, Black	roof outlet	2577002	H36	214.00
	Ubbiflex high tack adhesive For fixing the CWL universal roof tile to tiles or the roof	universal roof tile	2577543	H36	23.10
	Flat roof outlet 0°				
	DN 160	ISO pipe	2577004	H36	94.00
	DN 180	ISO pipe	2577005	H36	94.00
	Fastening clip for insulated duct				
	DN 125	ISO pipe	2577007	H36	7.20
	DN 160	ISO pipe	2577405	H36	7.80
	DN 180	ISO pipe	2577009	H36	8.30
	DN 200	ISO pipe	2577980	H36	25.00




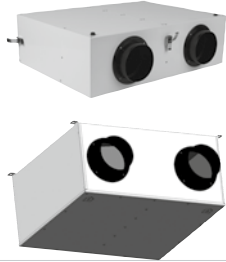
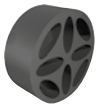
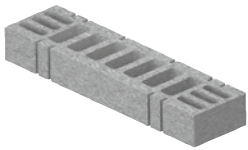
Out- and exhaust air connections

	Description	for product	Art. no.	DG	€
	Outdoor air tower with lamellar hood (set) DN 160	unit size (F/T-)300, unit size 300/325 SWP	2577927	H36	690.00
	Outdoor air tower with 90° bend (set) DN 160	unit size (F/T-)300, unit size 300/325 SWP	2577928	H36	690.00
	Replacement filter DN 160	Outdoor air tower	2577929	ET	79.00
	Wall spacer DN 160	Outdoor air tower	2577930	H36	95.00




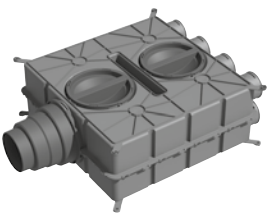
Out- and exhaust air connections

	Description	for product	Art. no.	DG	€
	Wall hood				
	DN 125, black (RAL 9005)	unit size 180, F-150	2575806	H36	110.00
	DN 125, white (RAL 9010)	unit size 225	2575809	H36	110.00
	DN 160, black (RAL 9005)	unit size (F/T)-300,	2575807	H36	114.00
		unit size 300/325 SWP			
	DN 160, white (RAL 9010)	unit size (F/T)-300,	2575810	H36	114.00
		unit size 300/325 SWP			
	DN 180, black (RAL 9005)	unit size 400	2575808	H36	122.00
	DN 180, white (RAL 9010)	unit size 400	2575811	H36	123.00
	Weather protection grille, DN 200 Closure of the façade lead-through to the outside, suitable for Fresh air and exhaust air	Baugrößen 450/600	2577972	H36	178.00
	UniAir Design double grille for outside and exhaust air				
	DN 125, Stainless steel		2577959	H36	335.00
	DN 160, Stainless steel		2577960	H36	345.00
	DN 180, Stainless steel		2577961	H36	370.00
	DN 125, Anthracite grey RAL 7016		2577962	H36	320.00
	DN 160, Anthracite grey RAL 7016		2577963	H36	330.00
	DN 180, Anthracite grey RAL 7016		2577965	H36	350.00
	DN 125, White RAL 9010		2577966	H36	320.00
	DN 160, White RAL 9010		2577967	H36	330.00
	DN 180, White RAL 9010		2577968	H36	350.00
	Double grille For outdoor <u>and</u> exhaust air				
	DN 125, white	unit size 180, F-150	2577458	H36	157.00
	DN 125, Stainless steel (V2A)	unit size 180, F-150	2577839	H36	312.00
	DN 160, white	unit size (F/T)-300,	2577579	H36	202.00
		unit size 300/325			
	DN 160, Stainless steel (V2A)	unit size (F/T)-300,	2577840	H36	349.00
		unit size 300/325			


Silencer

	Description	for product	Art. no.	DG	€
	Silencer For supply air <u>or</u> extract air 50 mm insulation				
	DN 125, Length 1000 mm	unit size 180, F-150	2575812	H36	128.00
	DN 125, Length 500 mm	unit size 180, F-150	2577765	H36	59.00
	DN 160, Length 1000 mm	unit size (F/T-)300,	2577367	H36	123.00
		unit size 325			
	DN 180, Length 500 mm	unit size (F/T-)300,	2577766	H36	83.00
		unit size 325			
	DN 180, Length 1000 mm	unit size 400	2575814	H36	153.00
	DN 160, Length 500 mm	unit size 400	2577767	H36	117.00
	DN 200, Length 1000 mm	unit size 450/600	2577982	H36	178,00
	DN 200, Length 500 mm	unit size 450/600	2577984	H36	145.00
	Flexible silencer For supply air <u>or</u> extract air 50 mm insulation				
	DN 125, Length 1000 mm	unit size 180, F-150	2577798	H36	129.00
	DN 160, Length 1000 mm	unit size (F/T-)300,	2577799	H36	136.00
		unit size 300/325			
	DN 180, Length 1000 mm	unit size 400	2577800	H36	155.00
	UniAir Silencer For direct mounting on the ventilation unit	CWL-2-325/400	2577912	H36	249.00
	DN160/180, Length 650 mm				
	Silencer Metal, for supply air <u>and</u> extract air Sound attenuating material, closed cell to DIN 1946-6				
	DN 125, Length 482 mm	CWL-F-150 Excellent	2577434	H36	775.00
	DN 160, Length 600 mm	CWL-F-300 Excellent	2577606	H36	785.00
	Silencer and flow rate controller	Connector for DN 125 vent	2577576	H36	26.30
	Silencer and flow rate controller	Floor grille connector	2577577	H36	34.90



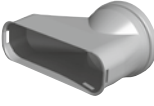




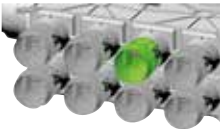
Air distributor for CWL Excellent and CWL-2

	Description	for product	Art. no.	DG	€
	UniAir air distributor For supply air <u>or</u> extract air An adaptor is required to connect hose or flat duct systems DN63, 50×100 and 50×140 to the air distributor. DN 125 - 180 basic (verzinkt) DN 125 - 180 premium, silent-white (Verkehrsweiß RAL 9016) mit Schalldämmung		2577924 2577925	H36 H36	372.00 710.00
	Note: UniAir connection pieces are required for the 8 additional connections. In addition, the UniAir air distributor can be extended with an additional 10 connections; a UniAir air distributor adapter plate is required for this!				
	UniAir air distributor DN 75, 4 pce	UniAir air distributor	2577926	H36	26.40
	UniAir air distributor adapter plate For extension of the UniAir air distributor. Galvanized White	UniAir air distributor UniAir air distributor	2577940 2577945	H36 H36	53.00 67.00
	Air distributor DN 125-180 Plastic, for supply air <u>or</u> extract air, antistatic and antimicrobial An adaptor is required to connect hose or flat duct systems DN63, 50×100 and 50×140 to the air distributor. 8 DN 75 connectors with 4 locking caps 16 DN 75 connectors with 8 locking caps 24 DN 75 connectors with 12 locking caps		2577595 2577596 2577597	H36 H36 H36	260.00 280.00 303.00
	Note: Click and seal ring DN 75 required.				







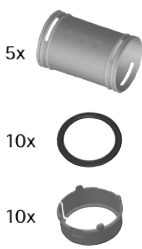
Air distributor for CWL Excellent and CWL-2

	Description	for product	Art. no.	DG	€
	Air distributor mini				
	8-75 - connection ISO pipe DN 125		2577835	H36	132.00
	6-75 - connection ISO pipe DN 125		2577836	H36	132.00
	16-75 - connection ISO pipe DN 125-180		2577837	H36	250.00
	12-75 - connection ISO pipe DN 125-180		2577838	H36	250.00

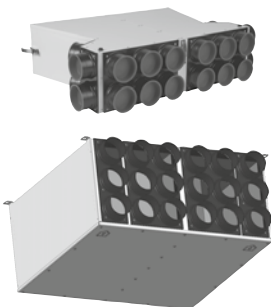

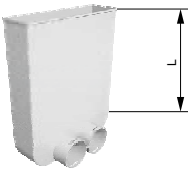

Accessories air distributor

	Description	for product	Art. no.	DG	€
	Adaptor DN 63 For connection between hose and air distributor, plastic, antistatic and antimicrobial DN 63 DN 90 Note: Click and seal ring N 63 or DN 75 required.	Air distributor DN 125-180	2577598 2577885	H36 H36	11.90 14.30
	Adaptor for flat duct 50 × 100 For connection between hoase and air distributor, plastic, antistatic and antimicorbiall Note: Sealing ring 50 × 100 necessary!	Air distributor DN 125-180	2577599	H36	19.50
	Adaptor for flat duct 50 × 140 For connection between hoase and air distributor, plastic, antistatic and antimicorbiall Note: Seal ring 50 × 140 required.	Air distributor DN 125-180	2577600	H36	23.70
	Restrictor DN 75 plastic, antistatic and antimicorbiall, bag of 10		2577589	H36	38.80
	Closing cap DN75 plastic, antistatic and antimicorbiall, bag of 10		2577713	H36	13.40
	Connection DN 125-180 plastic, antistatic and antimicorbiall		2577601	H36	21.80
New	Adapter DN 200 CWL Air distributor	Air distributor Mini, Air distributor DN 125-180, UniAir Air distributor	2577981	H40	60.00
	Inspection cap plastic, antistatic and antimicorbiall		2577602	H36	8.00
	Adjustable Restrictor V•easy DN 75	Air distributor Mini Air distributor DN 125-180	2577834	H36	26.50
	Silencer kit plastic, consisting of 10 push-fit elements, closed-cell sound attenuating material acc. to DIN 1946-6	Air distributor DN 125-180	2577603	H36	55.00






Flexible hose system, round for CWL Excellent and CWL-2

	Description	for product	Art. no.	DG	€
	Air distribution hose With smooth internal surface				
	DN 63, 50 m roll		2577412	H36	237.00
	DN 75, 50 m roll		2577414	H36	251.00
	DN 63, 50 m roll, antistatic and antimicrobial		2577411	H36	313.00
	DN 75, 50 m roll, antistatic and antimicrobial		2577413	H36	367.00
	DN 90, 50 m roll, antistatic and antimicrobial		2577886	H36	505.00
	Pipe cutter	Air distribution hose	1731894	H36	20.10
	DN 75				
	90° bend antistatic and antimicrobial				
	DN 63	Air distribution hose	2577704	H36	21.90
	DN 75	Air distribution hose	2577705	H36	21.90
	DN 90	Air distribution hose	2577890	H36	25.90
	Click connector Antistatic and antimicrobial				
	DN 63	Air distribution hose	2577415	H36	4.60
	DN 75	Air distribution hose	2577416	H36	4.90
	DN 90	Air distribution hose	2577889	H36	8.90
	Note: Click ring and seal ring DN 63 or DN 75 required.				
	Seal ring				
	DN 63, bag of 10		2577361	H36	26.80
	DN 75, bag of 10		2577360	H36	28.30
	DN 90, bag of 10		2577887	H36	32.70
	Click ring Antistatic and antimicrobial				
	DN 63, bag of 10		2577547	H36	26.80
	DN 75, bag of 10		2577548	H36	28.60
	DN 90, bag of 10		2577888	H36	33.10
 5x 10x 10x	Click connector kit Antistatic and antimicrobial Consisting of: 5 click connectors for air distribution hose 10 seal rings 10 click rings				
	DN 63	Air distribution hose	2577555	H36	77.00
	DN 75	Air distribution hose	2577556	H36	79.00









Flexible hose system, round for CWL Excellent and CWL-2

	Description	for product	Art. no.	DG	€
	Multi Air distributor Metal, for supply air <u>and</u> extract air Incl. silencer For direct installation onto the CWL-F Excellent Sound attenuating material, closed cell to DIN 1946-6				
	DN 125: 2 × 10 connectors DN 75 with 5 pipe caps each Length 482 mm	CWL-F-150 Excellent	2577417	H36	1090.00
	DN 125: 2 × 10 connectors DN 63 with 5 pipe capes each Length 482 mm	CWL-F-150 Excellent	2577841	H36	1090.00
	DN 160: 2 × 9 connectors DN 75 with 5 pipe caps each Length 600 mm	CWL-F-300 Excellent	2577607	H36	965.00
	DN 160: 2 × 9 connectors DN 63 with 5 pipe capes each Length 600 mm Note: Seal ring DN 75/63 required. If the multi air distributor is not connected directly to the unit, connecting collars have to be provided.	CWL-F-300 Excellent	2577842	H36	1090.00
	Connecting collars DN 125, 2 pce DN 160, 2 pce	 Air distributor Air distributor	 1800443 1800444	 H36 H36	 23.10 31.40
	Connector for DN125 valve, one pipe cap and two pipe sockets, Incl. cover connector for valve DN125, anti-static and antimicrobial L = 325 mm				
	DN 63, 90°		2577294	H36	48.00
	DN 75, 90°		2577295	H36	48.00
	DN 75, 180°		2577881	H36	48.00
	DN 90, 90°		2577892	H36	48.00
	Floor grille connector One pipe cap and two pipe connectors, anti-static and antimicrobial DN 75, L = 300 mm Note: Click and seal ring required. For DN 63, use DN 63 adaptor.		2577575	H36	104.00
	Pipe cap for air distribution hose Antistatic and antimicrobial				
	DN 63		2575835	H36	4.40
	DN 75		2575824	H36	4.40
	DN 90		2577891	H36	5.30
	Lubricant tube Content 50 ml		265132999	H40	9.40

Accessories flexible hose system round and flat duct

	Description	for product	Art. no.	DG	€
	Extension for connector DN 125 plastic, 285 mm		2577882	H36	23.40
	Cover Bag of 10	Connector for DN 125 valve	2577090	H36	32.80
	90° adaptor from round DN 75 to flat duct 50 x 100 Antistatic and antimicrobial Note: Click and seal ring required.		2577347	H36	16.00
	Angle adaptor 2 x round DN 75 to 1 x flat duct 50 x 140 Antistatic and antimicrobial Note: Click and sealing ring DN 75 necessary!		2577594	H36	25.00
	Universal clip 10 pce	Flat duct 50 x 100, Flat duct 50 x 140, Round duct Ø 63 mm, Round duct Ø 75 mm	2577574	H36	26.30



Flat duct system for CWL Excellent and CWL-2

	Description	for product	Art. no.	DG	€
	Flat duct With smooth internal surface, antistatic and antimicrobial				
	50 × 100, 50 m roll 50 × 140, 20 m roll		2576163 2577582	H36 H36	785.00 340.00
	Locking cap Antistatic and antimicrobial				
	50 × 100, bag of 10 50 × 140, bag of 10	Flat duct Flat duct	2576457 2577583	H36 H36	58.00 68.00
	90° bend Antistatic and antimicrobial				
	50 × 100 vertical 50 × 140 vertical	Flat duct Flat duct	2576164 2577587	H36 H36	22.90 26.70
Note: Sealing ring necessary.					
	90° bend Antistatic and antimicrobial				
	50 × 100 horizontal 50 × 140 horizontal	Flat duct Flat duct	2576165 2577586	H36 H36	22.90 26.70
Note: Sealing ring necessary.					
	Click connector Antistatic and antimicrobial				
	50 × 100 50 × 140	Flat duct Flat duct	2576166 2577588	H36 H36	16.10 18.10
Note: Seal ring required.					
	Sealing ring Antistatic and antimicrobial	Flat duct	2576167	H36	97.00
	50 × 100, bag of 10				
	Sealing ring Antistatic and antimicrobial	Flat duct	2577585	H36	119.00
	50 × 140, bag of 10				
	Pipe cap for moulded component Antistatic and antimicrobial				
	50 × 100 50 × 140		2576168 2577591	H36 H36	4.50 4.80

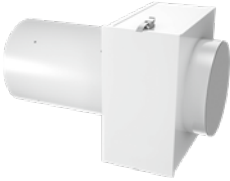

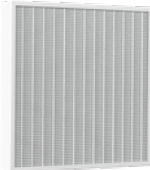

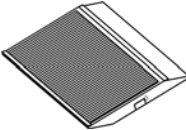
Flat duct system for CWL Excellent and CWL-2

	Description	for product	Art. no.	DG	€
 	Air distributor Metal, for supply air and extract air Incl. silencer for direct installation onto the CWL-F Excellent Sound attenuating material, closed cell to DIN 1946-6				
	DN 125: 2 × 6 connectors 50 × 100 with 3 pipe caps each Length 482 mm	CWL-F-150 Excellent	2577430	H36	1090.00
	DN 160: 2 × 9 connectors 50 × 100 with 5 pipe caps each Length 600 mm	CWL-F-300 Excellent	2577608	H36	1090.00
	Note: Sealing ring for flat duct 50 × 100 required. If the multi air distributor is not connected directly to the unit, connecting collars have to be provided.				
	Restrictor for flat duct Antistatic and antimicrobial 50 × 100 bag of 10	CWL-F Excellent	2576459	H36	40.00
	Connector for valve DN 125 Two duct connectors and one pipe cap, antistatic and antimicrobial, incl. cover connector for vent DN 125 L = 240 mm 50 × 100 - 90° L = 330 mm 50 × 140 - 90°		2576172	H36	48.00
			2577592	H36	54.00
	Note: Seal ring 50 × 100 or 50 × 140 required.				
	Floor grille connector One or two duct connectors and one pipe cap, antistatic and antimicrobial Incl. cover L = 220 mm 50 × 100 (two duct connectors)		2576173	H36	81.00
	Note: Sealing ring 50 × 100 necessary!				
	Floor grille connector One or two duct connectors and one pipe cap, antistatic and antimicrobial Incl. cover L = 240 mm 50 × 140 (one duct connector)		2577593	H36	73.00
	Note: Sealing ring 50 × 140 nutty!				
	Floor and wand grille, metal White Stainless steel		2576175	H36	84.00
			2576176	H36	84.00




Air supply / extraction valves for CWL Excellent and CWL-2

	Description	for product	Art. no.	DG	€
New available from spring 2022	 EasyAir MixFan for active overflow in supply air spaces		2139778	H36	780.00
New	UniAir 125R Design valve round for supply and exhaust air		2577988	H36	41.00
New	UniAir 125Q Design valve square for supply and exhaust air		2577989	H36	41.00
	Filter bags for all supply and exhaust air valves DN 125, 5 pce		7100595	H36	29.00
	Kitchen extract air valve with ISO Coarse 45 % (G3) filter, RAL 9010		2575834	H36	179.00
	filter matt class Class ISO Coarse 45 % (G3), 5 pce, 200 × 190 mm	Kitchen extract air valve	1669236	H36	13.00
	Commissioning Prices: net				
		CWL-2	99746	99	299.00
		CWL-2	99748	99	410.00

Filters

	Description	for product	Art. no.	DG	€
	UniAir Pure Electrosatic air filter incl. filter PM2,5 99% Installation in supply air	CWL-2-325/400	1670350	H36	2115.00
	Reduction DN 250 - DN 125, 2 pce DN 250 - DN 160, 2 pce DN 250 - DN 160, 2 pce	UniAir pure UniAir pure UniAir pure	2577937 2577938 2577939	H36 H36 H36	45.00 45.00 45.00
	Replacement filter ePM2,5 99%	UniAir pure	1670351	ET	93.00
	Replacement filter Activated carbon filter additional filter stage	UniAir pure	1670403	ET	76.00
	Service-Set Combi, Activated carbon filter Outside air filter, anti-allergenic ePM2,5 50 % (M6) 2 pce 2 pce 2 pce 2 pce 2 pce 2 pce	 CWL-2-225 CWL-2-325/400 CWL-180 Excellent CWL-300/400 Excellent CWL-F/T 300 Excellent CWL-F-150 Excellent	 1670347 1670346 1670363 1669305 1670348 1670349	 H36 H36 H36 H36 H36 H36	 105.00 124.00 89.00 47.00 112.00 52.00
	Filter ePM1 50 % (F7) 2 pce 2 pce	 CWL-2-225 CWL-2-325/400	 1670404 1669552	 H36 H36	 102.00 109.00

Filters

	Description	for product	Art. no.	DG	€
	Filter service set Outdoor air filter ePM1 50 % (F7) 2 pce	CWL-180, CWL-180 Excellent	1669258	H36	81.00
	2 pce	CWL-300/400 Excellent	1669302	H36	59.00
	2 pce	CWL-F-150 Excellent	1669303	H36	26.50
	2 pce	CWL-F/T-300 Excellent	1669304	H36	29.80
	Filter service set Outdoor air filter ePM2,5 50 % (M6)				
	2 pce	CWL-300, CWL-400	1668497	H36	76.00
	2 pce	CWL-300 B, CWL-400 B	1668498	H36	81.00
	Filter service set Outdoor or extract air filter ISO Coarse 60 % (G4)				
	2 pce	CWL-2-225	1670405	H36	57.00
	2 pce	CWL-2-325/400	1669551	H36	22.20
	2 pce	CWL-180 Excellent	1668492	H36	16.90
	2 pce	CWL-300 Excellent, CWL-400 Excellent	1669013	H36	19.50
	50 pce	CWL-300 Excellent, CWL-400 Excellent	1669027	H36	264.00
	2 pce	CWL-T-300 Excellent	1669200	H36	27.60
	2 pce	CWL-F-150 Excellent	1669163	H36	19.30
	2 pce	CWL-F-300 Excellent	1669046	H36	19.40
	2 pce	CWL-180	1668492	H36	16.90
	2 pce	CWL-300, CWL-400	1668493	H36	19.50
	50 pce	CWL-300, CWL-400	1668495	H36	267.00
	2 pce	CWL-300 B, CWL-400 B	1668494	H36	19.50
	50 pce	CWL-300 B, CWL-400 B	1668496	H36	267.00

New
available from
spring 2022



FWL PushPull 45 (RC) Decentralised ventilation unit with heat recovery Single unit

RG | H37

Type	FWL	45	45 RC
Energy efficiency class	A+ → F	A+	A+
Max. air performance	m³/h	42	42
Electr. power consumption	W	3,5	3,5
Protection Typee	IP	00	00
Filter (outside/inside)		ISO CORSE 55% (G3) / ISO CORSE 30% (G2)	
Necessary wall breakthrough	mm	162 bis 182mm	162 bis 182mm
Degree of heat provision (DIN EN 13141-8)	%	84,3	84,3
SPI (DIN EN 13141-8)	Wh/m³	0,11	0,12
Voltage	V	12	230
Dimensions			
Duct connection diameter	DN	160	160
Max. wall thickness	mm	490	490
Height	mm	246	246
Wide	mm	246	246
Depth	mm	282	282
Weight	kg	3,1	3,2
	Art. no.	2139952	2139953
	€	620.00	1030.00

- Decentralised single room ventilation unit for paired operation for supply and extract air
- FWL-PushPull 45 - wired version, internal cover with manual damper loc
- FWL-PushPull 45 RC - wireless version, inside cover with electric damper
- Use only for supply air rooms with external wall
- with heat recovery consisting of fan, ceramic heat exchanger, internal cover and two filters
- Required accessories: Shell sleeve, external cover or reveal element and controller FWL-PushPull RLS or RLS-K or for radio version FWL PushPull RC
- optional accessories: wall block, sensors and power unit (for more than 6 fans)
- operation in pairs recommended, with FWL PushPull 45 RC at least two units required
- The FWL-RLS and RLS-K controllers can be extended with an internal humidity sensor
- Additional external sensors CO2, VOC, relative humidity
- Combinability of FWL PushPull 45 and FWL PushPull 30 via FWL PushPull RLS-K controller possible (max. 6 fans)
- Operating programmes: Continuous ventilation with heat recovery, cross ventilation or sensor-guided automatic operation. Further functions possible via accessories
- The FWL PushPull RLS 45 K controller and the EnOcean expansion module, the radio and wired versions can be connected with each other.
- The RC versions can be combined with any number of units
- For internal extract air rooms without an external wall, the FWL-ABLV extract air fan is available in accordance with DIN 18017-3

New

available from
spring 2022














FWL PushPull 30 (RC) Decentralised ventilation unit with heat recovery 2-in-1 unit




RG | H37

Type	FWL	30	30 RC
Energy efficiency class	A+ → F	A	A
Max. air performance	m³/h	26	26
Electr. power consumption	W	5,3	5,3
Protection Typee	IP	X4	X4
Filter (outside/inside)		ISO CORSE 55% (G3) / ISO CORSE 55% (G3)	
Necessary wall breakthrough	mm	162 bis 182mm	162 bis 182mm
Degree of heat provision (DIN EN 13141-8)	%	73,3	73,3
SPI (DIN EN 13141-8)	Wh/m³	0,19	0,18
Voltage	V	12	230
Dimensions			
Duct connection diameter	DN	160	160
Max. wall thickness	mm	490	490
Height	mm	275	275
Wide	mm	275	275
Depth	mm	410	410
Weight	kg	4,7	4,5
	Art. no.	2139954	2139955
	€	945.00	1230.00









- Decentralised individual room ventilation unit for balanced-supply and extract air operation
- FWL-PushPull 30 - wired version, internal cover with electric damper
- FWL-PushPull 30 RC - wireless version, inside cover with electric damper
- Use only for extract air rooms with external wall
- with heat recovery consisting of two fans, two ceramic heat exchangers, inner cover and two filters
- Required accessories: Shell sleeve, external cover and controller RLS-K or for radio version FWL PushPull RC
- optional accessories: wall block, sensors and power unit (for more than 6 fans)
- The FWL-RLS and RLS-K controllers can be extended with an internal humidity sensor
- Additional external sensors CO2, VOC, relative humidity
- Operating programmes: Continuous ventilation with heat recovery, cross ventilation or sensor-guided automatic operation. Further functions possible via accessories
- Combinability of FWL PushPull 45 and FWL PushPull 30 possible via FWL PushPull RLS-K controller (max. 6 fans)
- Example of possible combinations:
 - 2x FWL PushPull 45 + 2x FWL PushPull 30 + 1x controller FWL PushPull 45 RLS K
 - 4x FWL PushPull 45 + 1x FWL PushPull 30 + 1x controller FWL PushPull 45 RLS K
- With the FWL PushPull RLS 45 K controller and the EnOcean expansion module, radio and wired versions can be connected with each other
- The RC versions can be combined with any number of units
- For internal extract air rooms without an external wall, the FWL-ABLV extract air fan is available in accordance with DIN 18017-3

Accessories







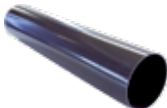
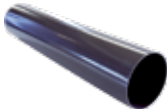

	Description	for product	Art. no.	DG	€
	FWL-PushPull-45 AK Outer cover plastic	PP 45 (RC)	2577993	H37	102.08
	FWL-PushPull-45 AE Outer cover stainless steel	PP 45 (RC)	2577994	H37	193.48
	FWL-PushPull-45 AS External cover ALU-black (anthracite)	PP 45 (RC)	2577995	H37	198.60
	FWL-PushPull-45 AW Outer cover alu-white	PP 45 (RC)	2577996	H37	198.60
	FWL-PushPull-30 AK Außenabdeckung Kunststoff	PP 30 (RC)	2577997	H37	174.16
	FWL-PushPull-30 AS External cover ALU black/anthracite	PP 30 (RC)	2578000	H37	267.24
	FWL-PushPull-30 AW Outer cover alu-white	PP 30 (RC)	2577999	H37	267.24
	FWL-PushPull-30 AE Outer cover stainless steel	PP 30 (RC)	2577998	H37	267.24
	FWL-PushPull RBH Shell sleeve (500mm)	PP 45 (RC) PP 30 (RC)	2577992	H37	62,-8
	FWL-PushPull MB Wall block	PP 45 (RC) PP 30 (RC)	2578001	H37	114.40
	FWL-PushPull SDE Sound insulation element	PP 45 (RC) PP 30 (RC)	2578002	H37	16.76

	Description	for product	Art. no.	DG	€
	FWL-PushPull-30 FG3 Spare filter G3 2 piece	PP 30 (RC)	1670451	H37	15.04
	FWL-PushPull-45 FG3 Spare filter G3 (outdoor) 2 piece	PP 45 (RC)	1670450	H37	14.56
	FWL-PushPull-45 FG2 Spare filter G2 (inside) 2 piece	PP 45 (RC)	1670449	H37	11.32




Exhaust fan

	Description	for product	Art. no.	DG	€
	FWL - ABLV Exhaust fan for windowless bathrooms according to DIN 18017-3		2139956	H37	346.44
	FWL - ABLV AG Surface-mounted housing without fire protection	FWL-ABLV	2578003	H37	91.36
	FWL - ABLV UG Flush-mounted housing	FWL-ABLV	2578004	H37	90.08
	FWL - ABLV IB Inner panel	FWL-ABLV	2578005	H37	44.40
	FWL - ABLV IB RH Inner panel with humidity sensor	FWL-ABLV	2578006	H37	252.52
	FWL - ABLV F-G2-indikator Spare filter G2 (with filter indicator)	FWL-ABLV	1670452	H38	30.48
	FWL - ABLV F-G2 Spare filter G2 (filter indicator in the cover)	FWL-ABLV	1670453	H38	19.04
	FWL - ABLV MSUG Mounting set for flush-mounted housing	FWL-ABLV	2578007	H38	24.12










Roof cover

	Description	for product	Art. no.	DG	€
	FWL-PushPull-45 DFK 46-55° Roof bonnet (roof pitches 46-55°)	PP 45 (RC)	2578016	H37	517.16
	FWL-PushPull-45 DH 36-45° Roof bonnet (roof pitches 36-45°)	PP 45 (RC)	2578015	H37	517.16
	FWL-PushPull-45 DH 31-35° Roof bonnet (roof pitches 31-35°)	PP 45 (RC)	2578014	H37	606.48
	FWL-PushPull-45 DH 25-30° Roof bonnet (roof pitches 25-30°)	PP 45 (RC)	2578013	H37	606.48
	FWL-PushPull-45 DER 26-55° Roofing frames (roof pitches 36-55°)	PP 45 (RC)	2578012	H37	1158.96
	FWL-PushPull-45 DER 25-35° Roofing frames (roof pitches 25-35°)	PP 45 (RC)	2578011	H37	1158.96
	FWL-PushPull-45 DFHL Roof duct sleeve long (2240mm)	PP 45 (RC) PP 30 (RC)	2578010	H37	207.72
	FWL-PushPull-45 DFHK Roof duct sleeve short (1180mm)	PP 45 (RC) PP 30 (RC)	2578009	H37	132.92
	FWL-PushPull-45 DFK Roof duct	PP 45 (RC)	2578008	H37	321.92

reveal element

	Description	for product	Art. no.	DG	€
	FWL-PushPull-45 LEW PP 45 LEW reveal element angle	PP 45 (RC)	2578019	H37	158.92
	FWL-PushPull-45 LE VERL PP 45 LEV reveal element extension	PP 45 (RC)	2578018	H37	117.80
	FWL-PushPull-45 LE ES-AD PP 45 LE reveal element with stainless steel outer seal	PP 45 (RC)	2578017	H37	270.84

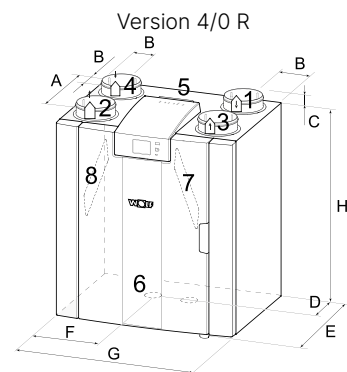
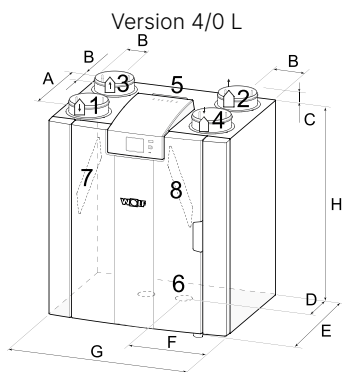
Sensors (Controls)

	Description	for product	Art. no.	DG	€
	FWL-PushPull RLS Room air control	PP 45	2748502	H37	317.96
	FWL-PushPull RLS-K Room air control comfort	PP 45 PP 30	2748503	H37	383.56
	FWL-PushPull RLS-RC RC Radio switch	PP 45 RC PP 30 RC	2748504	H37	286.00
	FWL-PushPull RLS-LT Power section (extension for more than 6 fans)	PP 45	2748505	H37	307.64
	FWL-PushPull RLS-LTRC RC extension module EnOcean	PP 45 RC PP 30 RC	2748506	H37	341.88
	FWL-PushPull CO2 Sensor ext. CO2 Sensor Extern	PP 45 (RC) PP 30 (RC)	2748501	H37	851.56
	FWL-PushPull VOC Sensor ext. VOC Sensor extern	PP 45 (RC) PP 30 (RC)	2748500	H37	745.64
	FWL-PushPullRH Sensor ext. Humidity sensor external	PP 45 (RC) PP 30 (RC)	2748499	H37	471.48
	FWL-PushPull RH Sensor int. Humidity sensor internal	FWL-PushPull RLS FWL-PushPull RLS-K	2748498	H37	149.56

Technical data

Domestic ventilation system with heat recovery CWL-2-225

Type	CWL-2	CWL-2-225
max. fan power at 150 Pa	m ³ /h	225
Heat recovery efficiency maximum	%	98
Heat recovery efficiency η_{WBG}	%	92
Specific electrical power consumption Pel,Vent	W/(m ³ /h)	0,17
Specific power consumption SEC	kWh/ (m ² /h)	-40,78
Height	mm	650
Width	mm	600
Depth	mm	455
Duct connection diameter	mm	125
Filter		ISO Coarse 60 % (G4) (ePM1 50 % (F7) as accessory)
Power factor	Cos ϕ	0,336 - 0,572
Electrical power consumption	W	8 - 92
Electrical power consumption (without preheater)	W	61,5 (at 225 m ³ /h and 100 Pa)
Weight	kg	29
Protection class	IP	30
Electrical connection		230 V / 50 Hz



1 Supply air (living room)
2 Exhaust air (to the outside)

3 Exhaust air (to the outside)
4 Outside air (from outside)

5 Electrical connection
6 Condensate connection

7 Exhaust air filter
8 Supply air filter

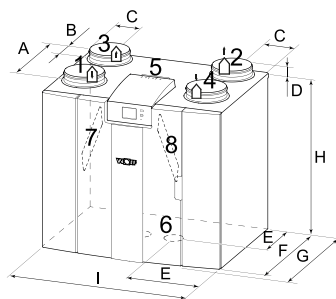
Type	A	B	C	D	E	F	G	H
CWL-2-225	323	93	42	210	458	198	600	650

Technical data

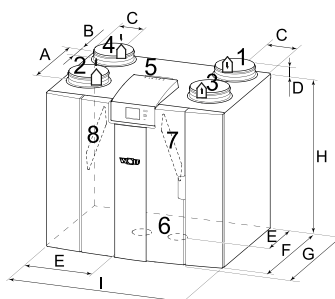
Domestic ventilation system with heat recovery CWL-2-325/400

Type	CWL-2	CWL-2-325	CWL-2-325 Enthalpie	CWL-2-400
max. fan power at 150 Pa	m ³ /h	325	325	400
Heat recovery efficiency maximum	%	98	98	99
Heat recovery efficiency η_{WBG}	%	91	83	92
Specific electrical power consumption Pel,Vent	W/(m ³ /h)	0,15	0,14	0,17
Specific power consumption SEC	kWh/(m ² /h)	-40,99	-38,76	-40,68
Height 4/0	mm	650	650	650
Height 2/2	mm	710	710	710
Width	mm	750	750	750
Depth	mm	560	560	560
Duct connection diameter	mm	160	160	180
Filter		ISO Coarse 60% (G4) ISO Coarse 60% (G4) ISO Coarse 60% (G4) (ePM1 50 % (F7) als Ac-(ePM1 50 % (F7) als Ac-(ePM1 50 % (F7) als Ac- cessories) cessories) cessories)		
Power factor	Cos ϕ	0,34 - 0,54	0,34 - 0,54	0,27 - 0,56
Electrical power consumption	W	6 - 145	6 - 145	8 - 178
Electrical power consumption (without preheater)	W	42,2	42,2	87
Weight	kg	37	37	38,5
Protection class	IP	30	30	30
Electrical connection		230 V / 50 Hz	230 V / 50 Hz	230 V / 50 Hz

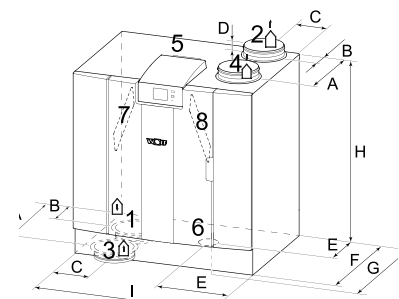
Version 4/0 L



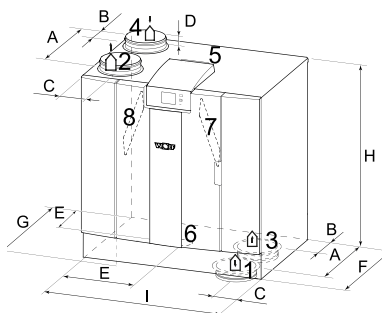
Version 4/0 R



Version 2/2 L



Version 2/2 R



1 Supply air (living room)
2 Exhaust air (to the outside)

3 Exhaust air (to the outside)
4 Outside air (from outside)

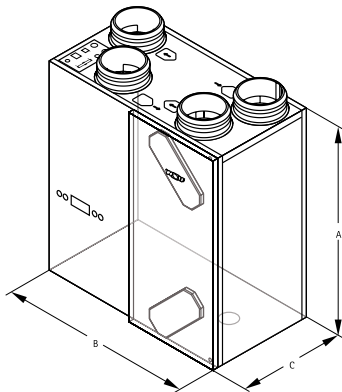
5 Electrical connection
6 Condensate connection

7 Exhaust air filter
8 Supply air filter

Type	A	B	C	D	E	F	G	H	I
CWL-2-325 4/0	410	130	120	45	270	510	560	650	750
CWL-2-400 4/0	410	130	120	45	270	510	560	650	750
CWL-2-325 2/2	410	130	120	45	270	510	560	710	750
CWL-2-400 2/2	410	130	120	45	270	510	560	710	750

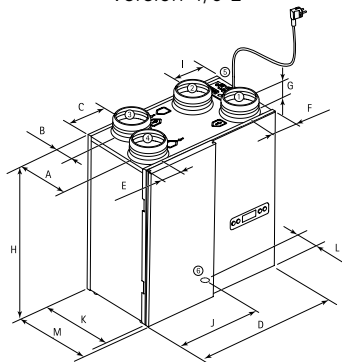
Technical data

Domestic ventilation system with heat recovery CWL-180 Excellent



Type	CWL	CWL-180 Excellent
max. fan power at 150 Pa	m³/h	180
Heat recovery efficiency maximum	%	92
Heat recovery efficiency η_{WBG}	%	82
Specific electrical power consumption Pel,Vent	W/(m³/h)	0,31
Specific power consumption SEC	kWh/(m²/h)	-33,11
Height	A mm	600
Width	B mm	560
Depth	C mm	315
Duct connection diameter	mm	125
Filter		ISO Coarse 60 % (G4)
Power factor	Cos ϕ	0,44 - 0,52
Electricity consumption	W	16 - 132
Electrical power consumption (without preheater)	W	64
Weight	kg	25
Protection class	IP	30
Electrical connection		230 V / 50 Hz

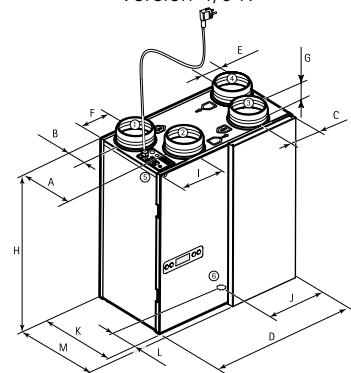
Version 4/0 L



- 1 Supply air (living room)
2 Exhaust air (to the outside)

- 3 Exhaust air (to the outside)
4 Outside air (from outside)

Version 4/0 R



- 5 Electrical connection
6 Condensate connection

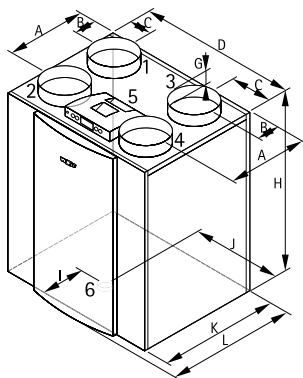
Type	A	B	C	D	E	F	G	H	I	J	K	L	M
CWL-180 Excellent R/L	213	77	125	560	75	79	45	600	168	248	290	145	315

Technical data

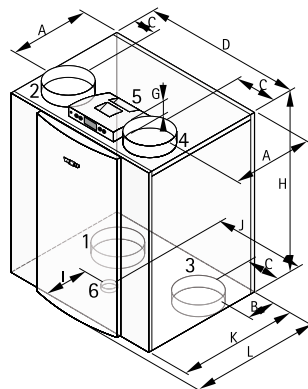
Domestic ventilation system with heat recovery CWL-300/400 Excellent

Type	CWL	CWL-300 Excellent	CWL-400 Excellent
max. fan power at 150 Pa	m ³ /h	300	w400
Heat recovery efficiency maximum	%	89	93
Heat recovery efficiency η WBG	%	86	85
Specific electrical power consumption Pel,Vent	W/(m ³ /h)	0,21	0,24
Specific power consumption SEC	kWh/(m ² /h)	-37,52	-36,26
Height	A mm	765	765
Width	B mm	677	677
Depth	C mm	564	564
Duct connection diameter	mm	160	180
Filter		ISO Coarse 60 % (G4) (ePM1 50 % (F7) as accessory)	ISO Coarse 60 % (G4) (ePM1 50 % (F7) as accessory)
Power factor	Cos ϕ	0,37 - 0,5	0,38 - 0,61
Electrical power consumption	W	3 - 138	3 - 172
Electrical power consumption (without preheater)	W	58 (at 225 m ³ /h and 100 Pa)	84 (at 300 m ³ /h and 100 Pa)
Weight	kg	38	38
Protection class	IP	30	30
Electrical connection		230 V / 50 Hz	230 V / 50 Hz

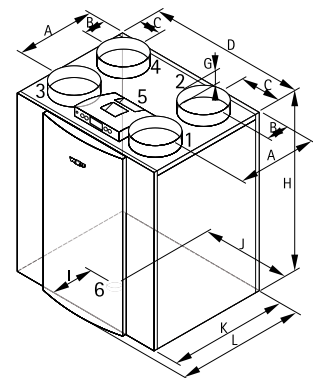
Version 4/0 R



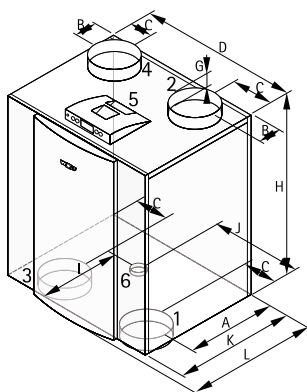
Version 2/2 R



Version 4/0 L



Version 2/2 L



- 1 Supply air (living room)
- 2 Exhaust air (to the outside)

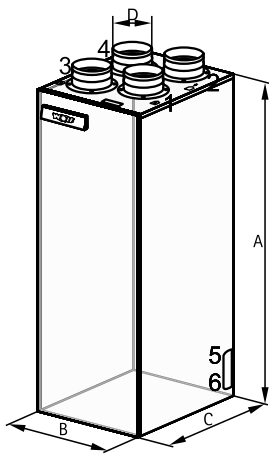
- 3 Exhaust air (to the outside)
- 4 Outside air (from outside)

- 5 Electrical connection
- 6 Condensate connection

Type	A	B	C	D	G	H	I	J	K	L
CWL-300/400 Excellent R	388	138	138	677	45	765	198	397	526	564
CWL-300/400 Excellent L	388	138	138	677	45	765	328	280	526	564

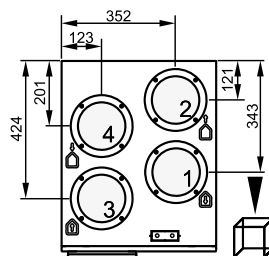
Technical data

Domestic ventilation system with heat recovery CWL-T Excellent



Type	CWL	CWL-T-300
max. fan power at 150 Pa	m ³ /h	300
Heat recovery efficiency maximum	%	93
Heat recovery efficiency η_{WBG}	%	85
Specific electrical power consumption Pel,Vent	W/(m ³ /h)	0,22
Specific power consumption SEC	kWh/ (m ² /h)	-37,58
Height	A mm	1287,5
Width	B mm	475
Depth	C mm	585
Duct connection diameter	D mm	160
Filter		ISO Coarse 60 % (G4) (ePM1 50 % (F7) as accessory)
Power factor	Cos ϕ	0,32 - 0,43
Electricity consumption	W	10 - 164
Electrical power consumption (without preheater)	W	86 (at 225 m ³ /h and 100 Pa)
Weight (with bypass)	kg	50
Protection class	IP	20
Electrical connection		230 V / 50 Hz

Version 4/0 L



1 Supply air (living room)
2 Exhaust air (to the outside)

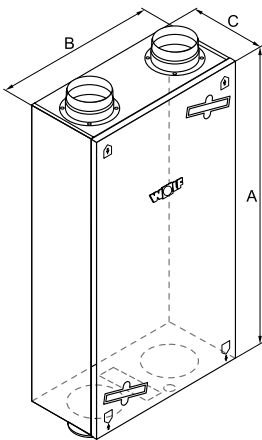
3 Exhaust air (to the outside)
4 Outside air (from outside)

5 Electrical connection
6 Condensate connection

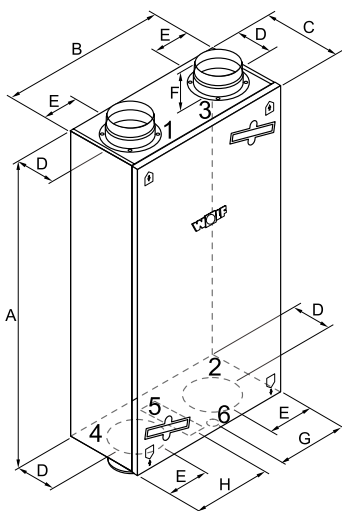
Type	A	B	C	D	E	F	G	H	I	J
CWL-T-300 Excellent	1287,5	475	585	160	424	201	123	352	343	121

Technical data

Domestic ventilation system with heat recovery CWL-F Excellent



Type	CWL	CWL-F-150 Excellent	CWL-F-300 Excellent
max. fan power at 150 Pa	m ³ /h	150	300
Heat recovery efficiency maximum	%	94	92
Heat recovery efficiency η_{WBG}	%	89	84
Specific electrical power consumption Pel,Vent	W/(m ³ /h)	0,27	0,24
Specific power consumption SEC	kWh/ (m ² /h)	-37,60	-36,99
Height	A mm	1000	1185
Width	B mm	660	644
Depth	C mm	198	310
Duct connection diameter	mm	125	160
Filter		ISO Coarse 60 % (G4) (ePM1 50 % (F7) as accessory)	ISO Coarse 60 % (G4) (ePM1 50 % (F7) as accessory)
Power factor	Cos ϕ	0,34 - 0,49	0,39 - 0,53
Electricity consumption	W	11 - 72	9 - 163
Electrical power consumption (without preheater)	W	52 (at 125 m ³ /h and 150 Pa)	79 (at 225 m ³ /h and 150 Pa)
Weight	kg	25	37
Protection class	IP	30	30
Electrical connection		230 V / 50 Hz	230 V / 50 Hz

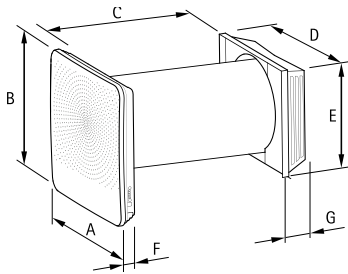


- 1 Supply air (living room)
- 2 Exhaust air (to the outside)
- 3 Exhaust air (to the outside)
- 4 Outside air (from outside)

- 5 Electrical connection
- 6 Condensate connection

Technical data

Decentral domesitc ventilation system with heat recovery CWL-D



Type	CWL	CWL-D-70
Air performance at fan speed 1 / 2 / 3 / 4 / 5	m ³ /h	15 / 25 / 40 / 55 / 70
Maximum heat supply efficiency	%	87
Heat supply ratio η_{WBG}	%	79
Specific electrical power consumption $P_{el,Vent}$	W/(m ³ /h)	0,20
Specific energy consumption SEV	kWh/(m ² /h)	-34,31
Unit diameter	mm	250
Filter		2x ISO Coarse 60 % (G4) (Exhaust air) & 1x ISO Coarse 60 % (G4) (Supply air) (ePM1 50 % (F7) als Accessories)
Impact factor	Cos ϕ	0,34 - 0,45
Weight	kg	25
Protection class	IP	Inside IP20 / Front cover IPX4
Electrical connection		230 V / 50 Hz

Type	A	B	C	D	E	F	G
CWL-D-70	398	398	500 - 600	355	315	65	85

WOLF Service

Commissioningn	Page 396
Maintenance sets	Page 399
Conversion kits	Page 404
Service case / Servicebox	Page 410

Commissioningn

When commissioned by Wolf, the system must be installed ready for operation by the installer, fully wired and filled with heating water. Sufficient fuel and electricity must be available. It must be possible to dissipate the heat generated.

Date of commissioning by agreement.

If delays occur for which Wolf is not responsible, the resulting costs will be charged according to expenditure. The plant must be located within the German mainland. Otherwise we reserve the right to invoice according to expenditure. The warranty periods for the products listed below, including commissioning by Wolf, apply from the date of commissioning. Otherwise, the warranty period starts with the date of the invoice (according to the valid terms of sale and delivery).

All commissioning services include a one-off journey. Combined commissioning (e.g. CGB-2 with CWL) can only be carried out if both products are completely installed and ready for operation.

Please inform us about the serial numbers of the respective devices when placing an order.

To order a commissioning, we need a completed completion notification. You can find this on our homepage in the download area.

	for product	Art.-No.	DG	€
COB-2 / TOB				
Commissioning				
Commissioning	Oil condensing boiler to 40kW	99742	99	340,00
with CWL-2 without calibration	Oil condensing boiler to 40kW	99639	99	550,00
with CWL-2 with calibration	Oil condensing boiler to 40kW	99641	99	669,00
Cascade of 2	Oil condensing boiler 29 to 40kW	99763	99	501,00
Cascade of 3	Oil condensing boiler 29 to 40kW	99764	99	639,00
Cascade of 4	Oil condensing boiler 29 to 40kW	99765	99	815,00
Cascade of 5	Oil condensing boiler 29 to 40kW	99642		on request
MGK-2				
Commissioning				
Commissioning with regulation	Gasbrennwertkessel to 1000kW	99754	99	479,00
Cascade of 2 with regulation	Gasbrennwertkessel to 1000kW	99766	99	712,00
Cascade of 3 with regulation	Gasbrennwertkessel to 1000kW	99767	99	934,00
Cascade of 4 with regulation	Gasbrennwertkessel to 1000kW	99768	99	1162,00
Cascade of 5 with regulation	Gasbrennwertkessel to 1000kW	99643		on request
CGB-2, CGB-2K, CGS-2, CGW-2, TGB-2				
Commissioning				
with CWL-2 without calibration	Gas condensing boilers to 30KW/TGB2-40	99722	99	324,00
with CWL-2 with calibration	Gas condensing boilers to 30KW/TGB2-40	99632	99	525,00
Cascade of 2	Gas condensing boilers to 30KW/TGB2-40	99633	99	638,00
Cascade of 3	Gas condensing boilers to 30KW/TGB2-40	99634	99	503,00
Cascade of 4	Gas condensing boilers to 30KW/TGB2-40	99635	99	681,00
Cascade of 5	Gas condensing boilers to 30KW/TGB2-40	99636	99	860,00
	Gas condensing boilers to 30KW/TGB2-40	99637		on request
CGB-2 38/55, CGB-2 75/100				
Commissioning with regulation				
Cascade of 2 with regulation	Gas condensing boilers 38 to 100KW	99723	99	388,00
Cascade of 3 with regulation	Gas condensing boilers 38 to 100KW	99769	99	575,00
Cascade of 4 with regulation	Gas condensing boilers 38 to 100KW	99771	99	748,00
Cascade of 5 with regulation	Gas condensing boilers 38 to 100KW	99772	99	936,00
	Gas condensing boilers 38 to 100KW	99638		on request
CGU-2K				
	all gas boilers	99721	99	318,00
CSZ-2				
	Centrals to 24KW	99725	99	399,00

	for product	Art.-No.	DG	€
CHA/CHC-MONOBLOCK, BWL-1-I, BWS-1, BWW-1				
Commissioning				
Commissioning	All heat pumps	99773	99	514,00
with gas condensing to 55KW	All heat pumps	99223	99	732,00
with oil condensing to 40KW	All heat pumps	99224	99	732,00
with CWL-2 without calibration	All heat pumps	99225	99	713,00
with CWL-2 with calibration	All heat pumps	99226	99	824,00
with gas condensing to 55KW with CWL-2 without calibration	All heat pumps	99227	99	929,00
with gas condensing to 55KW with CWL-2 with calibration	All heat pumps	99228	99	1040,00
with oil condensing to 40KW with CWL-2 without calibration	All heat pumps	99229	99	929,00
with oil condensing to 40KW with CWL-2 with calibration	All heat pumps	99241	99	1040,00
Cascade of 2	CHA-Monoblock	99242	99	771,00
Cascade of 3	CHA-Monoblock	99243	99	1029,00
Cascade of 4	CHA-Monoblock	99244		on request
Cascade of 5	CHA-Monoblock	99245		on request
BWL-1S(B), CHC-Split				
Heating circuit, cooling circuit to 12m pipe length and regulation	BWL-1S(B), CHC-Split	99786	99	690,00
heating circuit, cooling circuit 12m to 25m pipe length and regulation	BWL-1S(B), CHC-Split	99787	99	793,00
with gas condensing to 55KW	BWL-1S(B), CHC-Split	99644	99	906,00
with oil condensing to 40KW	BWL-1S(B), CHC-Split	99645	99	906,00
with CWL-2 without calibration	BWL-1S(B), CHC-Split	99646	99	887,00
with CWL-2 with calibration	BWL-1S(B), CHC-Split	99647	99	998,00
with gas condensing to 55KW with CWL-2 without calibration	BWL-1S(B), CHC-Split	99648	99	1103,00
with gas condensing to 55KW with CWL-2 with calibration	BWL-1S(B), CHC-Split	99649	99	1214,00
with oil condensing to 40KW with CWL-2 without calibration	BWL-1S(B), CHC-Split	99216	99	1103,00
with oil condensing to 40KW with CWL-2 with calibration	BWL-1S(B), CHC-Split	99217	99	1214,00
Cascade of 2	BWL-1S(B)	99218	99	1278,00
Cascade of 3	BWL-1S(B)	99219		on request
Cascade of 4	BWL-1S(B)	99221		on request
Cascade of 5	BWL-1S(B)	99222		on request
SWP	Domestic hot water heat pump	99870	99	269,00
CWL-2				
ohne Einmessung	CWL-2	99746	99	299,00
mit Einmessung	CWL-2	99748	99	410,00
FWS-2-max	Fresh water station	99990	99	628,00
CAT				
1-5 stations				
1-5 stations	per piece	99991	99	171,00
6-9 stations	per piece	99992	99	92,00
10-15 stations	per piece	99993	99	58,00

Commissioningn

	for product	Art.-No.	DG	€
Adjustment service to 100 kW Checking and optimization of the settings of an existing WOLF heating system. Here the control settings (basic settings, time programs, specialist level) are checked and adjusted if necessary / VoDGaben dimension is included.		99107	99	217,00
Adjustment service from 100 kW Checking and optimization of the settings of an existing WOLF heating system. Here, the control settings (basic settings, time programs, specialist level) are checked and adjusted if necessary / VoDGabenAbmessung is included.		99108	99	399,00
Connecting service for Link Home - Installation and Commissioning - Installation of the LAN / WLAN module WOLF Link home - Connection of your device to the Internet - Instruction in the functions of the free WOLF Smartset - Help with setting up your device on a terminal (e.g. laptop)		99444		319,00

Maintenance sets

	for product	Art.-No.	DG	€
Maintenance set Oil condensing boiler TOB for one maintenance consisting of: 1 oil nozzle TOB-18 1 O-ring Ø 320 × 8 1 O-ring Ø 132 × 4 1 silicone grease 10 gram tube 1 filter insert oil filter TOB 5-20µm 1 Gasket air nozzle TOB 1 Ignition electrode set TOB 1 Ignition cable gland 1 Maintenance manual TOB-18	TOB	2745711	ET	100,04
Maintenance kit for Oil condensing boiler COB for one maintenance consisting of: 1 oil nozzle, 1 spare cartridge for oil filter 1 O-ring Ø 320 × 8 1 silicone grease 10 gram tube 1 ignition electrode 1 light tube end piece 1 ignition cable gland 1 maintenance manual 1 condenser for oil pump motor	COB-15 COB-20 COB-29 COB-40	8908788 8908787 8908790 8908789	ET ET ET ET	85,85 107,70 107,70 117,77
Maintenance set for Oil condensing boiler COB-2 for one maintenance consisting of: 1 oil nozzle 1 spare cartridge for oil filter 1 O-ring Ø 132 × 4,0 1 O-ring Ø 320 × 8 1 gasket air nozzle 1 silicone grease 10 gram tube 1 ignition electrode	COB-2-15 COB-2-20 COB-2-29 COB-2-40	8908623 8908624 8908625 8908626	ET ET ET ET	78,48 78,48 78,48 78,48
Maintenance set gas condensing boiler for one maintenance consisting of: 1 burner flange gasket 1 ignition electrode with gasket 1 monitoring electrode with gasket	MGK-2-130-300 MGK-2-390-1000 MGK-130/170/210/250/300	8752282 8752022 8751280	ET ET ET	111,57 158,72 117,77

Maintenance sets

	for product	Art.-No.	DG	€
Maintenance set TGB-2 for one maintenance consisting of: 1 O-ring 320 × 8 VMQ 1 ignition electrode TGB-2 1 Gasket ignition electrode 1 monitoring electrode double wire 1 Gasket monitoring electrode 4 Hexagon screw M4×10 with UKV - IS-SW3 1 Gasket el. condu. 79,8×63,6×0,25 1 Gasket burner CGB-2 1 silicone grease 10 gram tube 1 flat gaskets 24×17×2 1 maintenance manual	TGB-2-20/30/40	8616241	ET	96,56
Maintenance set gas condensing boiler from year of construction January 2016 for one maintenance consisting of: 1 silicone grease 10 gram tube 2 gaskets combustion chamber 1 monitoring electrode 1 ignition electrode 1 flat gasket monitoring electrode 2 screws 35×10 1 Gasket burner 1 Gasket burner flange 4 screws 60×14 for burner Maintenance instructions	CGB-2, CGW-2, CGS-2, CSZ-2 to 24kW	8614984	ET	64,10
Maintenance set gas condensing boiler for one maintenance consisting of: 1 silicone grease 10 gram tube 1 burner gasket 2 gaskets combustion chamber 1 monitoring electrode 1 O-ring Ø 9.5 × 2 3 Flat gasket Ø 24 × 17 × 2 2 Flat gasket Ø 18.5 × 11 × 2 1 Protective hose ionization electrode 4 screws M4 × 8 1 ignition cable 1 ignition electrode 1 Gasket ignition electrode Maintenance instructions	CGB, CGS, CGW (not for CGB-35, CGB-50, CGB-K40-35)	2745709	ET	54,52
MAINTENANCE SET GAS CONDENSING BOILER for one maintenance Consisting of: 1x monitoring electrode CGB-2-38/55 1x gasket monitoring electrode CGB-2-38/55 1x ignition electrode CGB-2-38/55 1x Gasket ignition electrode CGB-2-38/55 4x Screw-Cylinder ISO4762 M4×10 - A2/70 1x Antiseize paste 932 Bechem 10g bag 1x Sealing flat 24X17X2 1x Maintenance manual CGB-2-38/55	CGB-2-38/55	8616224	ET	96,56

Maintenance sets

	for product	Art.-No.	DG	€
Maintenance set gas condensing boilers for one maintenance consisting of: 1 silicone grease 10 gram tube 2 gaskets combustion chamber 1 gasket burner 1 monitoring electrode 1 ignition electrode 1 flat gasket Ø 24 × 17 × 2 1 flat gasket monitoring electrode 1 protective hose monitoring electrode 2 screws M4 × 8 Maintenance instructions	CGB-35, CGB-50, CGB-K40-35	8611173	ET	110,04
Maintenance set gas condensing boiler for one maintenance consisting of: 1 silicone grease 10 gram tube 1 burner gasket 1 monitoring electrode 1 O-ring Ø 320 × 8 1 ignition electrode 1 flat gasket ignition electrode 1 flat gasket monitoring electrode 1 protective hose ionization electrode 4 screws M4 × 8 Maintenance instructions	CGB-75/100	8612865	ET	110,04
Maintenance gasket set gas condensing boiler for multiple use consisting of: 1 silicone grease 10 gram tube 1 thermal paste 1ml syringe 1 gasket fan flange 1 gasket fan backflow flap 1 gasket burner 10 flat gaskets Ø 18,5 × 11 × 2 10 flat gaskets Ø 24 × 17 × 2 10 flat gaskets Ø 30 × 21 × 2 6 O-rings Ø 36 × 26 × 5 10 O-rings Ø 22 × 18 × 2 10 O-rings Ø 22.22 × 2.62 1 gasket exhaust pipe 1 gasket ÜbeDGang LAS 5 GB gaskets for monitoring electrode 5 GB gaskets for ignition electrode to year of construction 05/01 5 GB gaskets for ignition electrode from year of manufacture 06/01	all gas condensing boilers (not for CGB, CGS, CGW, CGB-2, CGS-2, CGW-2)	8601006	ET	111,57
Cleaning set for gas condensing boiler for multiple use consisting of: 1 cleaning container 1 cleaning brush stainless steel (for standard heat exchanger) 1 cleaning brush plastic (for coated heat exchanger) 1 universal key CGB 1 universal key CGB-2 Maintenance instructions	all gas condensing boilers to 28kW	8603194	ET	134,98

Maintenance sets

	for product	Art.-No.	DG	€
Cleaning ED supplement set consisting of: 10 multi-purpose bags with drawstrings 2 hooks Maintenance manual	CGB-35, CGB-50, CGB-K40-35	2482875	ET	35,99
Cleaning brush Stainless steel (for standard heat exchanger) Plastic (for coated heat exchanger)	Gas condensing boilers	244005399 248360999	ET ET	35,99 23,14
Silicone spray 300ml	Gas condensing boilers	350156699	ET	82,10
Maintenance set CGU-2 for one maintenance 1 Monitoring electrode 2 Hose protection for ionization electrode 1 ignition electrode 2 Screw cyl. M4×8 DIN 912 self-cutting 4 Sealing O-ring 17×4 for pipe DN18 2 Sealing flat 24×17×2 1 Grease-Silicone 10Gramm-Tube	CGU-2	8615277	ET	54,52
Maintenance set CGG-2 for one maintenance 1 Monitoring electrode 2 Hose protection for ionization electrode 1 Ignition electrode with cable bushing 2 Screw cyl. M4×8 DIN 912 self-cutting 4 Sealing O-ring 17×4 for pipe DN18 2 sealing flat 24×17×2 piping 1 Grease-silicone 10 gram tube	CGG-2	8615278	ET	54,52
Maintenance set CGB-2-75/100 for one maintenance consisting of: 1 ignition electrode 1 monitoring electrode 1 burner gasket 1 flat gasket 30×21×2 1 silicone grease 10 gram tube 1 maintenance manual	CGB-2-75/100	8616512	ET	124,48
Maintenance set TGB-40/60 for one maintenance consisting of: 2 silicone grease 10 gram tube 1 GB-seals for ignition electrode to year of construction 05/01 1 GB-seals for ignition electrode from year of construction 06/01 1 monitoring electrode with gasket and screw 2 O-rings 6×26×5 7 flat gaskets 24×17×2 3 flat gaskets 18,5×11×2 1 maintenance manual	TGB-40/60	8602725	ET	114,38

Maintenance sets

	for product	Art.-No.	DG	€
Maintenance set for gas condensing boiler for one maintenance consisting of: 2 silicone grease 10 gram tube 1 GB gaskets for ignition electrode to year of manufacture 05/01 1 GB seals for ignition electrode from year of construction 06/01 1 monitoring electrode with gasket and screw 2 O-rings Ø 36 × 26 × 5 7 flat gaskets Ø 24 × 17 × 2 3 flat gaskets Ø 18,5 × 11 × 2 1 maintenance manual	all gas condensing boilers to 25kW (not for CGB, CGS, CGW, CGB-2, CGS-2, CGW-2)	8602306	ET	28,49
Cleaning tool MGK-2		2482879	ET	44,53

Conversion kits

	for product	Art.-No.	DG	€
Natural gas E to natural gas LL				
	GG-2E(K)-S18, GG-2E(K)-S24	8601102	ET	41,56
Natural gas LL on natural gas E				
	GG-E(K)-18, GG-E(K)-24, GU-E(K)-18, GU-E(K)-24	8600141	ET	39,52
	GG-1E(K)-18, GG-1E(K)-24, GU-1E(K)-18	8600304	ET	43,97
	GU-1E(K)-24	8600305	ET	39,52
	GG-2E(K)-S18, GG-2E(K)-S24, GU-2E(K)-S18	8601100	ET	41,56
	GU-2E(K)-S24	8601101	ET	41,56
Liquid gas on natural gas E				
	GU-2E-S18 und GG-2E-S18/24	8601296	ET	134,98
	GU-2E-S24	8601298	ET	134,98
LPG on natural gas LL				
	GG-2E-S18/24	8601297	ET	134,98
	GU-2E-S18/24	8601299	ET	366,00
Natural gas E or liquid gas P on natural gas LL				
	CGU-2(K)	8612655	ET	41,56
	CGG-2(K)	8612662	ET	41,56
Natural gas LL or liquid gas P on natural gas E				
	CGU-2(K)	8612654	ET	41,56
	CGG-2(K)-18, CGG-2(K)-24	8612660	ET	41,56
Natural gas E/LL on LPG P				
	CGU-2-10, CGU-2K-18	2800723	ET	139,84
	CGU-2K-24	2800724	ET	152,12
Natural gas E/LL on LPG P bzw B/P				
	CGG-2(K)-18	2800725	ET	129,54
	CGG-2(K)-24	2800726	ET	85,85
Conversion from combi to heating boiler				
	CGU-2K to BJ 05/2021	8613065	ET	129,54
	CGU-2K ab BJ 05/2021	8616679	ET	85,85
Conversion from heating to combi boiler				
	CGU-2 to BJ 05/2021	8613066	ET	790,00
	CGU-2 ab BJ 05/2021	8616680	ET	252,32

Conversion kits

	for product	Art.-No.	DG	€
Natural gas LL on natural gas E				
	TGK-24, GB-E(K)-20, TGB(-K)-20, GB-E(K)-20S	8600863	ET	21,00
	TGB 60	8602312	ET	21,89
Natural gas E to natural gas LL bzw. Natural gas LL on natural gas E	CGB-11, CSZ-11/300	8610612	ET	26,03
Natural gas E/LL on liquid gas B/P				
	CGB-20, CGW-20/120, CGS-20/160, CSZ-20/300	8602667	ET	239,39
	CGB-24, CGW-24/140, CGS-24/200, CSZ-24/300	8610610	ET	28,49
Liquid gas to natural gas or Natural gas LL on natural gas E	CGB-20, CGW-20/120, CGS-20/160, CSZ-20/300	8602698	ET	19,81
Liquid gas to natural gas or Natural gas LL on natural gas E BZW. Natural gas E to natural gas LL BZW. LIQUID GAS P ON NATURAL GAS LL	CGB-24, CGW-24/140, CGS-24/200, CSZ-24/300	8610611	ET	26,03
Natural gas E/LL on LPG P				
	CGB-35, CGB-K40-35	8611276	ET	21,00
	CGB-50	8611278	ET	21,89
Liquid gas to natural gas or Natural gas LL on natural gas E				
	CGB-35, CGB-K40-35	8611275	ET	21,89
	CGB-50	8611277	ET	21,89
Conversion from heating to combi boiler				
	CGB-20	8602668	ET	1137,00
	CGB-2-20/24	8614396	ET	916,00
Conversion from combi to heating boiler				
	CGB-20	8602708	ET	60,30
	CGB-2K-20/24	8614397	ET	85,85

Conversion kits

	for product	Art.-No.	DG	€
Natural gas E to natural gas LL	CGB-2-75/100	8616507	ET	57,78
Natural gas E/LL on LPG P	CGB-2-75/100	8616508	ET	104,37
Natural gas LL on natural gas E	CGB-2-75/100	8616509	ET	51,31
Liquid gas P on natural gas E	CGB-2-75/100	8616510	ET	100,04
LIQUID GAS P ON NATURAL GAS LL	CGB-2-75/100	8616511	ET	104,37
Natural gas E/LL on LPG P	TGB-2-20	8616300	ET	46,47
	TGB-2-30	8616305	ET	46,47
	TGB-2-40	8616645	ET	66,91
Liquid gas P on natural gas E	TGB-2-20	8616301	ET	43,97
	TGB-2-30	8616306	ET	43,97
	TGB-2-40	8616657	ET	28,49
LIQUID GAS P ON NATURAL GAS LL	TGB-2-20	8616302	ET	43,97
	TGB-2-30	8616307	ET	43,97
	TGB-2-40	8616644	ET	43,97
Natural gas LL on natural gas E	TGB-2-20	8616299	ET	26,03
	TGB-2-30	8616304	ET	26,03
	TGB-2-40	8616657	ET	28,49
Conversion kit Natural gas E/LL on LPG P Liquid gas P on natural gas E/LL Incl. travel expenses and commissioning by the factory service department	MGK-2-130-170 MGK-2-210-300	99751 99752	99 99	702,00 851,00

Conversion kits

	for product	Art.-No.	DG	€
NG-1P on natural gas E				
	NG-1-17, NG-1-23	2800754	ET	28,49
	NG-1-29	2800755	ET	35,99
	NG-1-35	2800756	ET	43,97
NG-2E/P on natural gas E				
	NG-2E/P-10	8887322	ET	26,03
	NG-2E/P-17	8887323	ET	26,03
	NG-2E/P-23	8887324	ET	30,78
	NG-2E/P-29	8887325	ET	48,36
	NG-2E/P-35	8887326	ET	35,99
	NG-2E-48	8887327	ET	39,52
NG-3EP on natural gas E				
	NG-3E-10	8887328	ET	8,98
	NG-3E-17	8887329	ET	12,40
	NG-3E-23	8887330	ET	19,81
	NG-3E-29	8887331	ET	23,14
	NG-3E-35	8887332	ET	26,03
	NG-3E-48	8887333	ET	48,36
NG-4E, TNG, CNG on natural gas E				
	NG-4E-10, CNG-10	8885561	ET	48,36
	NG-4E-17, NG-4E-S-16, CNG-17, TNG-17	8885562	ET	48,36
	NG-4E-23, NG-4E-S-22, CNG-23, TNG-23	8885563	ET	28,49
	NG-4E-29, CNG-29, TNG-29	8885564	ET	30,78
	NG-4E-35, CNG-35	8885565	ET	66,91
	NG-4E-48, CNG-48	8885566	ET	39,52
FNG on natural gas LL				
	FNG-10	8902497	ET	18,58
	FNG-17	8902498	ET	18,58
	FNG-21	8902499	ET	30,78
	FNG-26	8902500	ET	18,58
	FNG-34	8902501	ET	26,03
	FNG-41	8902502	ET	26,03
	FNG-57	8902503	ET	35,99
FNG on liquid gas P				
	FNG-10	8902504	ET	70,44
	FNG-17, FNG-21	8902505	ET	89,09
	FNG-26	8902506	ET	104,37
	FNG-34	8902507	ET	114,38
	FNG-41	8902508	ET	124,48
	FNG-57	8902509	ET	145,93

Conversion kits

	for product	Art.-No.	DG	€
FNG on natural gas E	FNG-10	8902510	ET	21,89
	FNG-17	8902511	ET	30,78
	FNG-21	8902512	ET	30,78
	FNG-26	8902513	ET	51,31
	FNG-34	8902514	ET	73,21
	FNG-41	8902515	ET	85,85
	FNG-57	8902516	ET	100,04
NG-30E/ED on natural gas E	NG-30E-72, NG-30ED-144*	8752584	ET	107,70
	NG-30E-96, NG-30ED-192*	8752585	ET	134,98
	NG-30E-120, NG-30ED-240*	8752586	ET	165,50
NG-31E/ED on natural gas LL	NG-31E-70, NG-31ED-140*	8700299	ET	111,57
	NG-31E-90, NG-31ED-180*	8700300	ET	134,98
	NG-31E-110, NG-31ED-220*	8700301	ET	158,72
NG-31E/ED auf Flüssiggas B/P	NG-31E-70, NG-31ED-140*	8750050	ET	267,75
	NG-31E-90, NG-31ED-180*	8750051	ET	303,00
	NG-31E-110, NG-31ED-220*	8750052	ET	338,00
NG-31E/ED on natural gas E	NG-31E-70, NG-31ED-140*	8700314	ET	232,98
	NG-31E-90, NG-31ED-180*	8700315	ET	284,38
	NG-31E-110, NG-31ED-220*	8700316	ET	338,00
CGB-2-38/55 Natural gas E to natural gas LL	CGB-2-38	8616188	ET	19,81
	CGB-2-55	8616190	ET	19,81
CGB-2-38/55 Natural gas E/LL on LPG P	CGB-2-38	8616201	ET	46,47
	CGB-2-55	8616202	ET	46,47
CGB-2-38/55 Liquid gas P on natural gas E	CGB-2-38	8616220	ET	43,97
	CGB-2-55	8616221	ET	43,97
CGB-2-38/55 LIQUID GAS P ON NATURAL GAS LL	CGB-2-38	8616222	ET	43,97
	CGB-2-55	8616223	ET	43,97
CGB-2-38/55 Natural gas LL on natural gas E	CGB-2-38	8616272	ET	26,03
	CGB-2-55	8616273	ET	26,03

Service case / Servicebox

	Description	for product	Art.-No.	DG	€
	Service case without content		3063508	ET	117,61
	Service case Oil condensing boiler TOB consisting of: 1 ignition electrode set 1 plug-in probe 5KNTC brass 1 plug-in sensor 5KNTC brass Molex 1 pressure sensor analog 4,5bar incl.O-ring 1 O-ring 320×8 VMQ 1 check valve for condensate pump 1 filter insert oil filter TOB 5-20 µm 1 Gasket air nozzle 1 oil pump complete 1 Coil for solenoid valve oil pump 2 Oil nozzle 0,25 - 60° MST 1 ignition transformer 1 differential pressure switch 1 oil pressure sensor	TOB	8908801	ET	1104,77
	Service case Oil condensing boiler COB consisting of: 1 wideband flame detector COB-15-29 1 plug-in sensor 5KNTC brass 1 wideband flame detector COB-40 1 pressure switch for heating water 2 oil nozzle 0,30 / 80° S 2 oil nozzle 0,40 / 80° S LE 2 oil nozzle 0,55 / 80° S LE 2 ignition electrodes scet 1 oil nozzle 0,65/80° S LE 1 oil pump COB 15 / 12 bar 1 oil pump COB-20/29/40 1 condenser for oil pump motor 2 coils for solenoid valve oil pump (Danfoss) 2 coils for solenoid valve oil pump (Suntec) 1 ignition transformer 1 light tube end piece 1 Siphon SH 150 XL incl. condensate hose 1 O-ring 320×8 VMQ 1 plug-in sensor 5KNTC brass Molex 1 check valve for condensate pump	COB	8908800	ET	1969,74
	Service case Oil condensing boiler COB-2 consisting of: 1 ignition electrode set 1 plug-in probe 5KNTC brass 1 Layer charge sensor 5KNTC brass 1 pressure sensor heating water 1 O-ring 320 × 8 VMQ 1 Check valve for condensate pump 1 Air nozzle gasket 2 oil nozzles 0,30 / 80°S 2 oil nozzles 0,35 / 60°S 2 oil nozzles 0,45/80°S Danfoss 1 oil nozzle 0,55/80°S Danfoss 1 differential pressure sensor 1 oil pump COB-20/29/40 1 oil pump COB 15 / 12 bar 1 condenser for oil pump motor 2 coils for solenoid valve oil pump (Danfoss) 2 coils for solenoid valve oil pump (Suntec) 1 ignition transformer	COB-2	8908799	ET	1571,36

Service case / Servicebox

	Description	for product	Art.-No.	DG	€
	Service case Gas condensing boilers CGB consisting of: 2 flow sensors 1 temperature sensor return 1 ignition transformer 1 gas combination valve 1 storage tank sensor 1 control board 1 heating circuit pump 1 flow temperature monitor 2 flue gas temperature monitors 85°C or 100°C (24kW only) 2 monitoring electrodes 2 ignition electrodes 20 flat gaskets 18,5 × 11 × 2 20 flat gaskets 24 × 17 × 2 20 flat gaskets 30 × 21 × 2 20 flat gaskets 37.5 × 27 × 2	CGB/CGS/CGW/CSZ to 25kW	8614143	ET	1333,32
	Service case Gas condensing boilers CGB-2 consisting of: 2 flow sensors 1 temperature sensor return 1 ignition transformer 1 gas combination valve 1 storage tank sensor 1 control board 1 heating circuit pump 1 flow temperature monitor 2 flue gas temperature monitors 85°C or 100°C (24kW only) 2 monitoring electrodes 2 ignition electrodes 20 flat gaskets 18,5 × 11 × 2 20 flat gaskets 24 × 17 × 2 20 flat gaskets 30 × 21 × 2 20 flat gaskets 37.5 × 27 × 2	CGB-2/CGS-2/CGW-2/CSZ-2 to 24kW	8615001	ET	1499,46
	Service case Gasbrennwertkessel TGB-2 Consisting of: 1 gasket exhaust pipe DN 80 (5 pieces) 1 BM contact board 1 service board front panel 1 heat conductive paste 250gr 2 O-ring 350 × 7, EPDM, 70 Shore A 4 Sealing ring D80 for exhaust pipe internal 1 Flat gasket 24X17X2 verp. 1 Silicone grease 10 gram bag 2 O-ring 320×7 1 Sealing ring 100×14 1 O-ring 39,34 × 2,62 EPDM 1 Gas burner control GBC Pneum. TGB-2-20/30 E 1 Automatic gas burner control GBC Pneum. TGB-2-20/30 P 1 Automatic burner control GBC Pneum. TGB-2-40 1 sealing ring 345 × 9,5 double. 1 O-ring 320 × 8 VMQ 1 return sensor 1 ET pressure sensor analog 4,5 bar incl.O-ring 1 exhaust gas sensor condensing 5k NTC 1 temperature monitor 155C 1 ignition transformer 50Hz 2-pole ZAG 2C 1 plug-in sensor 2×5kNTC brass Molex 1 gas valve 848 Sigma 4.Gen. 1 ignition electrode 1 monitoring electrode double wire 1 Gasket ignition electrode 1 gasket monitoring electrode	TGB-2/20/30/40	8616817	ET	1494,16

Service case / Servicebox





	Description	for product	Art.-No.	DG	€
	Service case Gasbrennwerttherme CGB-2-38/55 Consisting of: 1 Control board HCM-2 Heater Circuit 3 Antiseize paste 932 Bechem 10g bag 3 Silicone grease 10 gram bag 1 Automatic burner control GBC Pneumatic CGB-2-38/55 Natural gas E 1 Automatic burner control GBC Pneumatic CGB-2-38/55 Liquid gas 3 Sealing set hydraulics 1 Ring-hose insulation AD 235×40 1 High efficiency pump UPM3L 2 plug-in sensor 5KNTC brass Molex 1 exhaust gas sensor gas condensing 5k NTC 1 temperature monitor 185C 1 ignition electrode 1 monitoring electrode 1 flow sensor DN20 cpl. 1 ignition transformer 50Hz 2-pole ZAG 2C 1 plug-in sensor 2×5kNTC brass Molex 1 gas valve 848 Sigma 4.Gen. 1 pressure sensor water 10 bar incl.O-ring 1 lip seal combustion chamber	CGB-2-38/55	8616813	ET	2101,71
	Service case Wärmepumpen BWL-1 / BWS-1 consisting of: 10 film hinges Control housing 1 3-way valve with clamping ring DN28 2 flow sensors 2 immersion sensors 6 mm PT 1000 2 immersion sensors 6 mm NTC 5k 1 control board HPM 1 control board HCM 1 flow sensor DN25 G1¼ AG 1 Pressure sensor analog f. water to 4,5 bar 1 soft starter 11kW 1 servomotor 24VAC 2 storage tank sensors 10 flat gaskets 44 × 32 × 2 10 flat gaskets 37,5 × 27 × 2	BWL-1 / BWS-1	9145973	ET	2301,76
	Servicekoffeer CHA Consisting of: 1 control board HCM-4 1 communication board CWO 1 supply/return temperature sensor 1 supply air/exhaust air temperature sensor 1 Temp-sensor suction gas temperature 1 temp. sensor hot gas temperature 1 temp. sensor control box 1 temp. sensor supply air/exhaust air 1 Temp-sensor storage tank / SAF 1 motor 3-way valve hydroblock 1 pump heating circuit 25/7,5/130 1 flow sensor DN 25 insert 1 pressure sensor 1 fuse HCM-4 1 fuse terminal box outdoor unit 1 set of screws cladding (10 pcs)	CHA	9146957	ET	1630,73

Service case / Servicebox



Description	for product	Art.-No.	DG	€
Service case heat pumps BWL-1S consisting of: 1 control board HCM-3 Heater Curcuit 1 temperature sensor OCT L1400 BWL-1S-10/14 AE 1 temperature sensor CTT L1000 BWL-1S-10/14 AE 1 temp. sensor OMT L1400 BWL-1S-10/14 AE 1 temperature sensor OAT L1400 BWL-1S-10/14 AE 1 temperature sensor OAT/OMT BWL-1S-7-230V AE 1 hot gas sensor 10K BWL-1S-7-230V AE 1 temp. sensor CMV/VRF BWL-1S-7-230V AE 1 flow/return sensor 1 pump heating circuit high efficiency 25 / 7,5 / 130 1 Hydroblock incl. 3 way valve 1 control board EWO 2 Refrigerant pressure sensor BWL-1S 1 Flow sensor DN25 Insert	BWL-1S	9146407	ET	2112,29

Service case / Servicebox

	Description	for product	Art.-No.	DG	€
	Servicebox Mobile interface for WOLF heating systems Perfectly suited for commissioning and maintenance Setting of all important parameters on laptop/smartphone Creation of documentations and protocols Plug&Play: Connection directly to the heating system via eBus No additional cables required thanks to integrated WLAN module Offline use possible with Smartset PC app (new version) Consisting of: 1 interface module WOLF Link pro (successor ISM7e). 1 case 1 Powerbank (battery life up to 8h) 1 USB power supply 1 USB cable 1 network cable 1 eBus cable 1 eBus adapter		2746032	H41	580,00
	WOLF LINK HOME LAN/WLAN interface module consisting of: WOLF LINK HOME interface module, connection cable, installation/operating instructions, Network cable - Integrated LAN and WLAN interface for the integration of WOLF heating systems into a network or - For connecting WOLF heaters to the Wibus smart home system.		2746365	H41	270,00
	Note: For unrestricted access to functions and operation, we recommend a BM-2 operating module.				
	Wolf Link Pro - Lan/Wlan interface module external consisting of: WOLF LINK PRO interface module, installation/operating instructions, eBus cable, power supply unit, network cable. - LAN and WLAN interface module for wall mounting or mobile use - Connection of WOLF heaters to the WOLF Smartset Portal / App - Mobile use for parameterization of the heating system - Power supply via power supply unit or USB		2746366	H41	505,00
	Note: For unrestricted access to functions and operation, we recommend a BM-2 operating module.				
	WOLF Link 4G - WOLF Link home and LTE router - pre-installed with antenna. - Remote monitoring of the system - even if there is no router or network connection available in the house. - Perfect for landlords, property managers, etc. without access to the local network - Central management of several systems via WOLF Smartset - Settings can be voDGen remotely - Data recording & fault messages possible remotely - A mobile data plan (min. 3G) with approx. 500MB/month is required for operation		2747704	H41	1060,00



INTERNATIONAL CONDITIONS OF SALE FOR CUSTOMERS NOT RESIDENT IN GERMANY (STATUS 01/11)

I. Application of the International Conditions of Sale

1. These International Conditions of Sale apply to all customers of Wolf GmbH - hereinafter referred to as Wolf - whose relevant place of business is not in Germany. For customers whose place of business is in Germany, the General Conditions of Sale of Wolf apply, which will be forwarded on request. In each case, the relevant place of business is the one which concludes the contract in its own name.
2. These International Conditions of Sale apply to the present and all subsequent contracts whose preponderant object is the supply of goods to the customer. Additional obligations assumed by Wolf do not affect the application of these International Conditions of Sale.
3. Conflicting or differing terms of business of the customer do not bind Wolf, even if Wolf does not explicitly object or even if Wolf renders performance or accepts the customer's performance without reservation irrespective of conflicting or differing terms of business of the customer. The provisions of this paragraph equally apply insofar as the terms of business of the customer, irrespective of the contents of these International Conditions of Sale, deviate from legal provisions.

II. Formation of the Contract of Sale

1. The customer is under an obligation to give written notice to Wolf prior to the formation of a contract if the goods ordered are to be fit not only for normal use or will be used in circumstances which are unusual or which present a particular risk to health, safety or the environment, or which require more demanding use.
2. Orders of the customer are to be put in writing. If the customer's order deviates from the proposal or the tender submitted by Wolf, the customer will emphasize the differences as such.
3. All orders, in particular also those received by employees of Wolf, will only have effect if followed by a written acknowledgement of the order by Wolf. The delivery in fact of the goods ordered, any other conduct of Wolf or silence does not allow the customer to assume the formation of the contract of sale. Wolf can dispatch such written acknowledgement of the order up to and including 14 calendar days after the customer's order has been received by Wolf. Until this time, the customer's order is irrevocable.
4. The written acknowledgement of the order has been received in time, if it is received by the customer within 14 calendar days after its date of printing. The customer will inform Wolf without delay, if the written acknowledgement of the order is received delayed.
5. The written acknowledgement of the order by Wolf determines the entire contents of the contract and effects a conclusion of the contract even if - except for the purchase price and the quantity to be delivered - the written acknowledgement deviates in any other way, especially with respect to the exclusive application of these International Conditions of Sale, from the declarations of the customer. Particular wishes of the customer, namely warranties or guarantees with respect to the goods or the performance of the contract therefore require express written confirmation in every case. Regardless of the nature and extent of the deviations, the contract will only fail to come into existence if the customer objects to the deviations in writing and the objection is received by Wolf within a short time, at the latest seven calendar days after receipt of the written acknowledgement of the order by the customer.
6. Wolf's employees, commercial agents or other sales intermediaries are not authorized to dispense with the requirement for written acknowledgement of the order or to make promises which differ from its content or guarantees. Changes to the concluded contract likewise require written confirmation by Wolf.

III. Obligations of Wolf

1. Subject to an exemption according to section VII.-1. b) Wolf must deliver the goods specified in the written acknowledgement of the order. Wolf is not obliged to perform obligations not stated in the written acknowledgement of the order or in these International Conditions of Sale, in particular Wolf is under no obligation to deliver accessories not listed explicitly, to install additional safety devices, to carry out assemblies, to render planning-services or to advise the customer.
2. Third parties not involved in the conclusion of the contract, in particular the customer's clients, are not entitled to request delivery to be made to them. The customer's responsibility to take delivery continues to exist even if he assigns claims to third parties.
3. Wolf undertakes to deliver goods of average kind and quality taking account of the tolerances customary in trade as in kind, quantity, quality and packaging. If the goods cannot be delivered in the condition as offered at the time of the formation of the contract because technical improvements to goods of series production were made, Wolf is entitled to deliver the goods with the technical improvements. Wolf is entitled to make part deliveries.
4. If further specification is required in relation to the goods to be delivered, Wolf will carry this out having regard to its own and the identifiable and legitimate interests of the customer. A request to the customer to specify the goods, or to participate in the specification, is not required. Wolf does not undertake to inform the customer of the specification it has made or to give the customer the option of a differing specification.
5. Wolf undertakes to place the goods at disposal for collection by the customer at the agreed time of delivery at the place of delivery indicated in the written acknowledgement of the order or by way of precaution at its premises in Mainburg/Germany. Previous separation or marking of the goods or notification to the customer of the goods being placed at disposal is not required. However, Wolf is entitled to initiate the shipment of the goods at the customer's risk and expense in order to obtain the document in proof of tax-free-delivery.
6. Agreed delivery time periods or delivery dates are subject to the customer's procuring any required documents, releases, permits, approvals, licences or any other authorizations or consents in sufficient time, opening letters of credit and making down-payments as agreed and performing all other obligations incumbent upon him properly and in good time. Moreover, agreed delivery time-periods begin on the date of the written acknowledgement of the order by Wolf. Wolf is entitled to deliver earlier than at the agreed delivery time.

7. Without prejudice to its continuing legal rights, Wolf is entitled to fulfil its obligations after the delivery time agreed upon, if it informs the customer of exceeding the delivery time limit and of the time period for late performance. The customer can object to late performance within a reasonable time period, if the late performance is unreasonable. An objection is only effective, if it is received by Wolf before commencing late performance. Wolf will reimburse necessary additional expenditure, proven and incurred by the customer as a result of exceeding the delivery time to the extent that Wolf is liable for this under the provisions laid down in section VII.
8. Risk as to price and performance even of goods not being clearly identifiable to the contract and without being necessary a notice given by Wolf, passes to the customer at the latest as soon as loading of the goods has begun or as soon as the customer does not take delivery in accordance with the contract or title of the goods has passed to the customer. The loading of the goods is part of the customer's obligations. The agreement of INCOTERMS in Group F or Group C or of clauses such as „delivery free.....“ or such like merely involves a variation of the provisions as to transportation costs; besides, the provisions laid down in these International Conditions of Sale including those referring to the passing of risk continue to apply.
9. Wolf is not obliged to obtain any licences, authorizations, certificates, formalities or other documents necessary for the export, transit or import. However, Wolf renders at the customer's request, risk and expense every assistance in obtaining the documents that the customer has required in writing.
10. Including where INCOTERMS in Group F are agreed, Wolf is in particular not obliged to arrange for shipment of the goods, to insure the goods, to procure certificates or documents not expressly agreed, to procure customs clearance, to bear levies, duties and charges accruing outside Mainburg/Germany, to comply with weight and measuring systems, packaging, labelling or marking requirements applicable outside Mainburg/Germany, to inform the customer of the delivery or to take back packaging material from the customer. Irrespective of any legal provision, the customer shall at its own cost take care of renewed utilization, material recycling or otherwise prescribed waste-disposal. The foregoing provision applies irrespective of whether the packaging material is invoiced separately or not to the customer.
11. Without prejudice to its continuing legal rights, Wolf is entitled to suspend the performance of its obligations so long as, in the opinion of Wolf, there are grounds for concern that the customer will wholly or partly fail to fulfil its obligations in accordance with the contract. In particular, the right to suspend arises if the customer insufficiently performs its obligations to enable payment to Wolf or a third party or pays late. Wolf is not required to continue with performance of its obligations, if an assurance given by the customer to avoid the suspension does not provide adequate security or could be challenged pursuant to an applicable law.
12. Except as provided in section III.-7, Wolf is only obliged to inform the customer of delay or non-performance as soon as these are certain.

IV. Price, Payment and Acceptance of the Goods

1. Irrespective of continuing obligations of the customer to guarantee or to enable payment, the customer undertakes to pay the agreed price in the currency specified in the written acknowledgement of the order transferring it without deduction and free of expenses and costs to the financial institution designated by Wolf. To the extent that a price has not been agreed, the contract has nevertheless been validly concluded; in such a case the price which is at the agreed time of delivery Wolf's usual price will apply. Wolf's employees, commercial agents or other sales intermediaries are not authorized to accept payments.
2. The payment to be made by the customer is in any event due for payment at the time specified in the written acknowledgement of the order. The due time for payment arises without any further pre-condition and, in particular, does not depend on whether the customer has already taken delivery of the goods and/or the documents and/or has had an opportunity to examine the goods. The periods granted for payment will cease to apply and outstanding accounts will be due for immediate payment, if insolvency proceedings relating to the assets of the customer are applied for, if the customer without providing a justifiable reason does not meet fundamental obligations due towards Wolf or towards third parties or if the customer has provided not accurate information regarding his credit standing.
3. The customer warrants that all legal requirements for delivery free of German value added tax will be fulfilled. To the extent that Wolf does not receive the document in proof of tax-free-export-delivery or Wolf is called upon to pay value added tax as a result of the terms of delivery or of circumstances allocable to the customer, the customer will indemnify Wolf in all and every respect without prejudice to any continuing claim by Wolf. The indemnity is granted by the customer waiving any further requirements or other defences, in particular waiving the defence of limitation or prescription and also includes the reimbursement of the expenses incurred by Wolf.
4. Regardless of currency and regardless of the jurisdiction of any court, Wolf is entitled at its own discretion to set off incoming payments against claims existing against the customer by virtue of its own or assigned rights at the time of payment.
5. Any rights of the customer to set-off against claims of Wolf are excluded, except where the corresponding claim of the customer is in the same currency, is founded in the customer's own right and has either been finally judicially determined or is undisputed or acknowledged by Wolf in writing.
6. Any rights of the customer to suspend payment and to raise defences are excluded, except where despite written warning Wolf has committed a fundamental breach of its obligations arising out of the same contractual relationship, and has not offered any adequate assurance.
7. The customer undertakes to take delivery of the goods at the delivery time without taking any additional period of time and at the place of delivery indicated in the written acknowledgement of the order or by way of precaution at the premises of Wolf in Mainburg/Germany. The customer is only entitled to refuse to take delivery if it exercises - in accordance with the rules in section VI.-1. - its rights to avoid the contract.

INTERNATIONAL CONDITIONS OF SALE FOR CUSTOMERS NOT RESIDENT IN GERMANY (STATUS 01/11)

V. Delivery of non-conforming Goods or Goods with Defective Title

1. Delivery does not conform with the contract if, taking into account the terms in section III., at the time the risk passes the packaging, quantity, quality or the description of the goods is significantly different to the specifications laid down in the written acknowledgement of the order, or in the absence of agreed specifications, the goods are not fit for the purpose which is usual in Mainburg/Germany. Irrespective of the legal requirements applicable in Mainburg/Germany, the delivery conforms with the contract, to the extent that the legal requirements applicable at the place of business of the customer do not impede the usual use of the goods. Second-hand goods are delivered without any liability for their conformity.
2. To the extent that the written acknowledgement of the order does not contain an explicit statement to the contrary, Wolf is in particular not liable for the goods being fit for the purpose to which the customer intends to put them or for possessing the qualities of a sample or a model or for their compliance with the legal requirements existing outside of Mainburg/Germany, for instance in the customer's country. Wolf also shall not be liable for any non-conformity with the contract occurring after the time the risk has passed. To the extent that the customer, either himself or through third parties, initiates the removal of non-conformities without the prior consent of Wolf, Wolf will be released from its liability.
3. The customer must examine the goods as required by law and in so doing check every single delivery in every respect for any discoverable or typical lack of conformity with the contract.
4. The goods delivered have a deficiency in title if they are not free from enforceable rights or claims of third parties at the time risk passes. Without prejudice to further legal requirements, third parties rights or claims founded on industrial or other intellectual property constitute a deficiency in title only to the extent that the rights are registered and made public in Germany. Irrespective of the legal requirements applicable in Germany, the goods are not with defective title, to the extent that the legal requirements applicable at the place of business of the customer do not impede the usual use of the goods.
5. The customer shall give notice as required by law to Wolf of any lack of conformity with the contract or of any deficiency in title, and in any event directly and in writing. Wolf's employees, commercial agents or other sales intermediaries are not authorised to accept notices or to make any statements concerning lack of conformity with the contract or of title and its consequences.
6. Following due notice according to section V.-5., the customer can rely on the remedies provided for by these International Conditions of Sale. The customer has no other rights or claims whatsoever. The customer's claims for a deficiency in title will be time-barred according to the same rules as the claims for delivery of non-conforming goods. In the event of notice not having been properly given, the customer may only rely on remedies if Wolf has fraudulently concealed the lack of conformity with the contract or the deficiency in title. Statements by Wolf as to the lack of conformity with the contract or as to the deficiency in title are for the purpose of explaining the factual position only, but do not entail any waiver by Wolf of the requirement of proper notice.
7. In accordance with the terms of the UN Sales Convention, the customer is entitled to demand delivery of substitute goods or repair or to reduce the purchase price. Further claims for performance are not available to the customer. Irrespective of the customer's remedies, Wolf is always entitled in accordance with the provision in section III.-7. to repair goods which do not conform with the contract or to supply substitute goods.

VI. Termination of contract

1. Without prejudice to compliance with the respective applicable legal requirements, the customer is only entitled to declare the contract avoided after he has threatened Wolf with avoidance of the contract in writing and an additional period of time of reasonable length for performance fixed in writing has expired to no avail. If the customer claims delivery of substitute goods, repair or other performance, he is bound for a reasonable period of time to the chosen remedy, without being able to exercise the right of declaring the contract avoided. In any event, the customer must give notice of avoidance of the contract within a reasonable time in writing and to Wolf directly.
2. Without prejudice to its continuing legal rights, Wolf is entitled to avoid the contract in whole or in part without compensation if the customer objects the application of these International Conditions of Sale, if the written acknowledgement of the order is received by the customer more than 14 calendar days after its date of printing, if insolvency proceedings relating to the assets of the customer are applied for or commenced, if the customer without providing a justifiable reason does not meet fundamental obligations due towards Wolf or towards third parties, if the customer has provided not accurate information regarding his credit standing, if Wolf through no fault of its own does not receive supplies properly or on time, or if for other reasons Wolf can not be expected to fulfil its obligations by means which taking into consideration its own interests and that of the customer as far as ascertainable and legitimate at the time of formation of the contract, are unreasonable in particular in relation to the agreed counterperformance.

VII. Damages

1. Apart from liability for damage to natural persons, Wolf is only obliged to pay damages pursuant to this contract or extra contractually if the following provisions in a) to f) are fulfilled:
 - a) The customer is required in the first instance to rely on other remedies and can only claim damages in the event of a continuing deficiency. The customer cannot claim damages as an alternative to other remedies.
 - b) Wolf is not liable for the conduct of suppliers or subcontractors or for damages to which the customer has contributed. Wolf is also not liable for impediments which occur, as a consequence of natural or political events, acts of state, industrial disputes, sabotage, accidents, biological, physical or chemical processes or similar circumstances and which cannot be controlled by Wolf with reasonable means. Besides, Wolf is only liable if it negligently breaches fundamental or deliberately or in circumstances amounting to gross negligence breaches other obligations owed to the Customer.

- c) In the event of liability Wolf will compensate within the limits of lit. d) the proven loss of the customer to the extent that it was unavoidable for the customer and foreseeable to Wolf, at the time of the formation of the contract with respect to the occurrence of the loss and its amount. The customer must advise Wolf in writing before formation of the contract of particular risks, atypical possibilities for damages and unusual amounts of loss. Moreover, the customer is required to mitigate his loss as soon as a breach of contract is or ought to be known.
 - d) Wolf is not liable for loss of profit, non-pecuniary losses or other indirect damages. Besides, the amount of damages for late delivery is limited to 0,5 % for each full week of delay, up to a maximum of 5 %, and for other breaches of obligations is limited up to 200 % of the respective delivery value. However, this subparagraph does not apply in case of gross negligence by the executive bodies or the management.
 - e) For the limitation of time, the general regulations of the German Civil Code are valid.
- To the extent that the claim is not time-barred earlier, a six-month preclusive limitation of time for bringing an action for damages applies, starting with the rejection of the claim for damages.
- f) The foregoing provisions relating to Wolf's liability also apply to the personal liability of Wolf's employees, servants, members of staff, representatives and those employed by Wolf in the performance of its obligations.
2. Irrespective of continuing legal or contractual claims of Wolf and subject to the customer providing proof that damages have not occurred at all or clearly do not reach this extent, the customer is obliged towards Wolf to pay liquidated damages as follows without Wolf having to provide proof of the amount:
 - a) In the event of delay in payment the customer will pay the costs of judicial and extra-judicial means and proceedings, usual and accruing within the country and abroad, as well as interest at the rate applicable in Mainburg/Germany for unsecured short-term loans in the agreed currency.
 - b) In the case of the customer not taking delivery on the due date or not at all, Wolf is entitled to claim damages in the amount of 15 % of the respective delivery value.

VIII. Other Provisions

1. Title of the goods which have been delivered remains with Wolf until settlement of all claims by Wolf existing against the customer. The allocation of risk as to price and performance in section III.-8. is not affected by the reservation of title.
2. Without prejudice to Wolf's continuing claims, the customer will indemnify Wolf without limit against all claims of third parties which are brought against Wolf on the grounds of product liability or similar provisions, to the extent that the liability is based on circumstances which - such as, for example, the presentation of the product - were caused after risk passed, by the customer or other third parties without express written consent of Wolf. In particular, the indemnification also includes compensation for expenses incurred by Wolf and is granted by the customer waiving further conditions or other objections, in particular without requiring compliance with control and recall obligations, and waiving any defence of limitation.
3. In relation to pictures, drawings, calculations and other documents as well as computer-software, Wolf reserves all proprietary rights, copyrights, other industrial property rights as well as know-how rights.
4. All communications, declarations, notices etc. are to be drawn up exclusively in the German or English language. Communications by means of fax or e-mail fulfil the requirement of being in writing.

IX. General Basis of Contracts

1. The place of performance and payment for all obligations arising from the legal relationship between Wolf and the customer is Mainburg/Germany. In particular, this provision also applies if Wolf assumes the costs of money remittance, renders performance for the customer somewhere else or payment is to be made in exchange for documents or goods or in the case of restitution of performances already rendered. The agreement of INCOTERMS in Group F or Group C or agreements as to how costs are to be borne do not entail any change of the above rule as to place of performance. Wolf is entitled to require payment also at the place of business of the customer.
2. The United Nations Convention of 11 April 1980 on Contracts for the International Sale of Goods (UN Sales Convention / CISG) in the English version as well as the usage in force in Mainburg/Germany govern the legal relationship with the customer. The UN Sales Convention applies, above and beyond its own area of application, and regardless of reservations adopted by other states, to all contracts to which these International Conditions of Sale are to be applied according to the provisions of section I. Where standard terms of business are used, the INCOTERMS® 2010 of the International Chamber of Commerce apply taking into account the provisions stipulated in these International Conditions of Sale.
3. The formation of contract, including agreements as to jurisdiction and the inclusion of these International Conditions of Sale, and the rights and obligations of the parties, also including precontractual and collateral obligations, as well as the interpretation are exclusively governed by the UN Sales Convention together with these International Conditions of Sale. Outside the application of the UN Sales Convention, the contractual and non-contractual legal relationship between the parties is governed by the non-uniform German law, namely by the BGB/HGB (German Civil and Commercial Code).
4. All contractual and extra-contractual disputes arising out of or in connection with contracts to which these International Conditions of Sale apply, shall be finally settled by arbitration according to the Rules of the German Institution for Arbitration (DIS) without recourse to the ordinary courts of law. The tribunal shall consist of three arbitrators. The place of the arbitration shall be Munich, the languages to be used in the arbitral proceedings shall be German and English. In individual cases, however, Wolf is entitled also to bring an action before the national Courts at the customer's place of business, or other national Courts having jurisdiction according to domestic or foreign law.
5. If provisions of these International Conditions of Sale should be or become partly or wholly void, the remaining arrangements will besides continue to apply. The parties are bound to replace the void arrangement by a legally valid arrangement, which comes as close as possible to the commercial meaning and purpose of the void arrangement.



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