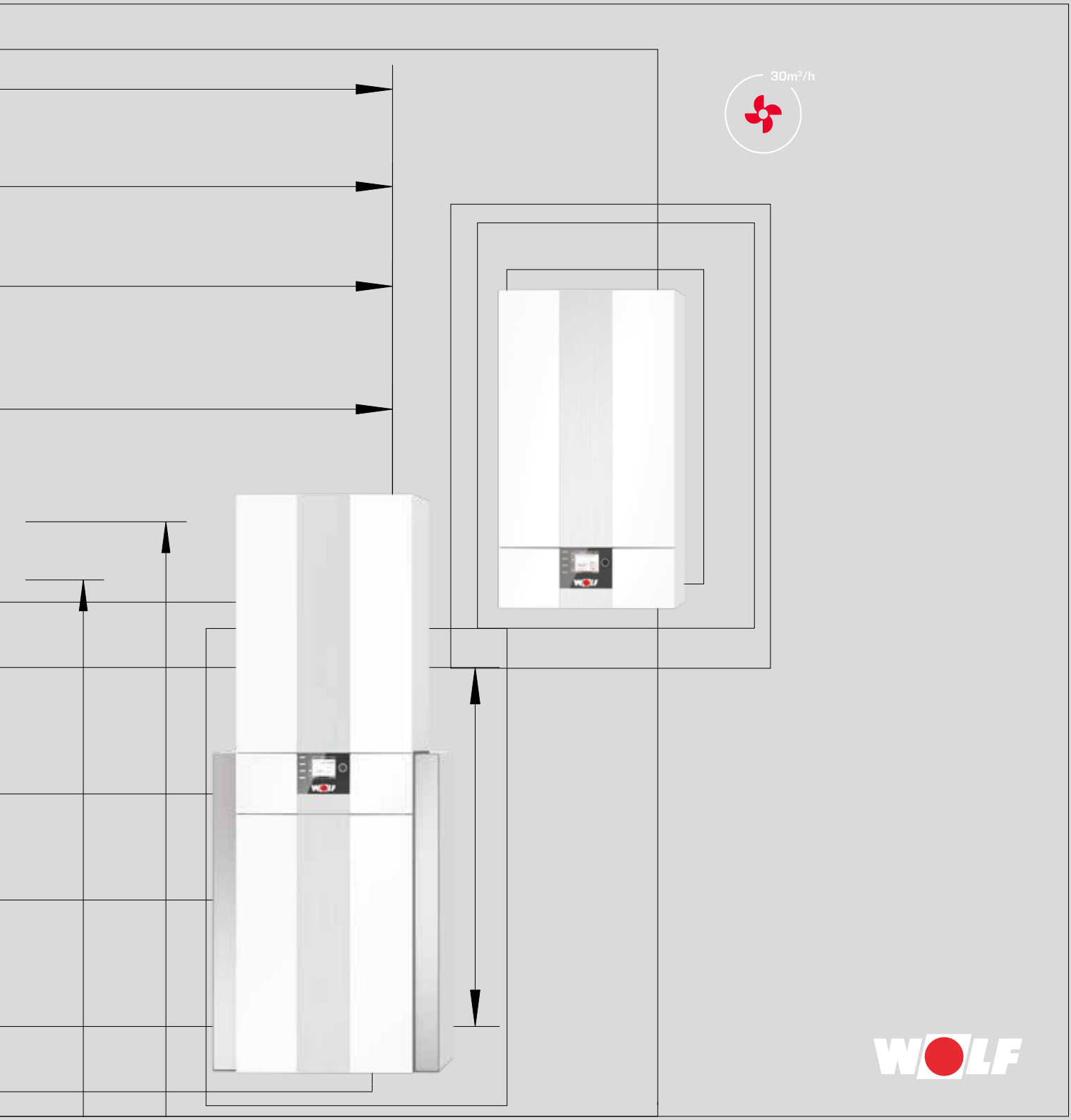
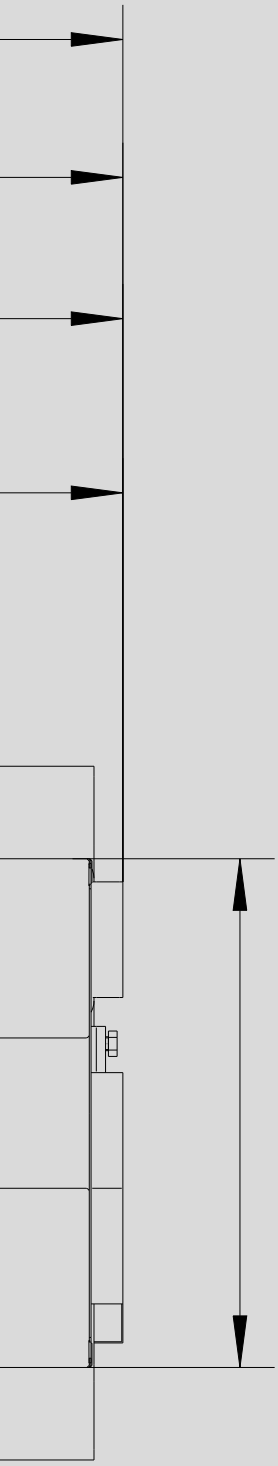
WOLF
WALL MOUNTED GAS CONDENSING BOILERS
COMFORTLINE

CGB-2(K) / CGW-2 / CGS-2L / CGS-2R / CSZ-2





THE EXTENSIVE
EQUIPMENT RANGE

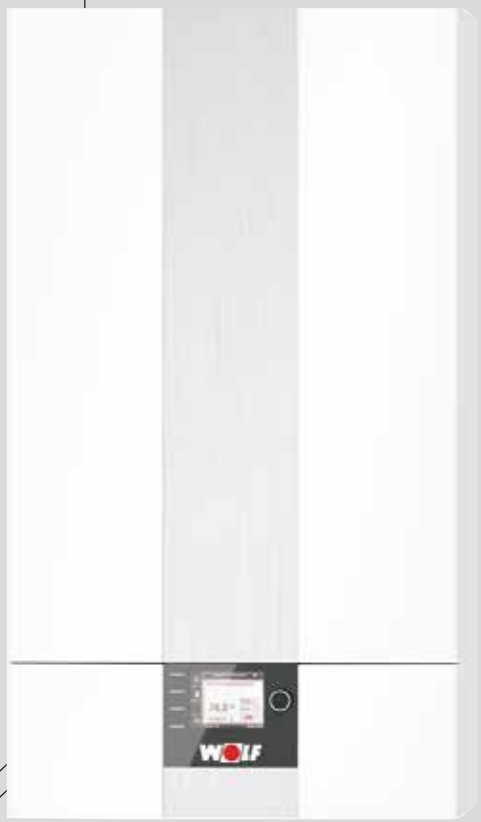
from system supplier WOLF offers the ideal solution for commercial and industrial buildings, new build and modernisation projects alike.
The range of WOLF control units can meet any requirement for heating convenience.
All equipment is easy to operate, highly energy efficient and reliable.
Solar thermal systems can be swiftly integrated into existing systems.

WOLF equipment is easy and quick to install and maintain.

Gas condensing boilers, sealed combustion chamber,
for room sealed or
open flue operation

High standard seasonal efficiency [to DIN]
up to 110 % (net cv) / 99 % (gross cv) for
the best possible energy efficiency

Meets the requirements for the "Blue Angel" eco-label
according to RAL-UZ 61 when operated with natural gas



Premix burner for natural gas
E, LL and LPG, variable modulating
heating output from 1.8 kW

With expansion vessel,
modulating high efficiency pump
(EEI <0.23) and 3-way valve as standard

Appliance converts automatically
to a different gas type without
conversion kit or resetting
of the control unit

Automatic CO2 setting
with self-calibrating combustion air controller
for extremely clean combustion

Optimum utilisation of condensing technology
by controlling the spread without an overflow valve;
no return temperature raising required

Heating water heat exchanger
can be pivoted under system pressure
for maintenance without having to
drain the heating water

WOLF "ALUPro" coated
heating water
heat exchanger

Communication
via smartphone, laptop or PC

WOLF WRS 2 control system
can be set and operated via smartphone or PC

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BENEFITS OF WOLF GAS CONDENSING BOILERS UP TO 24 KW

CGB-2(K) / CGW-2 / CGS-2 / CSZ-2

Efficient combustion technology
with gas-adaptive self-calibrating combustion controller that adjusts automatically to the prevailing gas quality

Easy flue gas emissions testing
from outside without opening the appliance

Convenient access to all components
for quick installation and easy operation and maintenance

FLIP & CLEAN

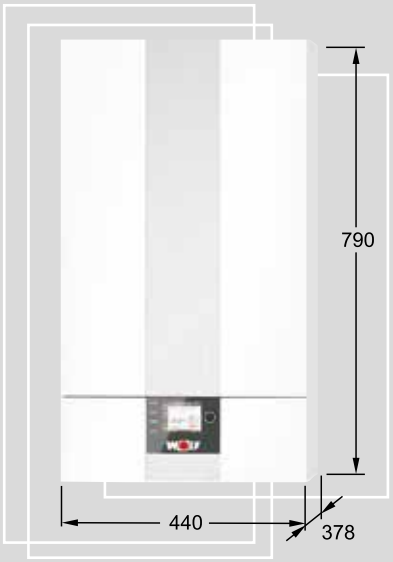
SMARTSET

MADE IN GERMANY BY WOLF

CGB-2-14, -20, -24

GAS CONDENSING BOILER FOR HEATING

with option to connect a DHW cylinder,
e.g. CSW-120

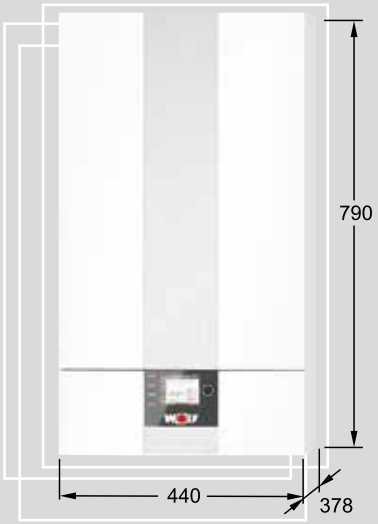


MODULATION RANGE for flow / return 50 / 30 °C		BOOSTER OUTPUT for cylinder heating	
CGB-2-14	from 2.1 to 15.2 kW		
CGB-2-20	from 4.4 to 20.4 kW	CGB-2-20	22.2 kW
CGB-2-24	from 5.6 to 25.8 kW	CGB-2-24	27.1 kW

CGB-2K-20, -24

GAS CONDENSING BOILER FOR HEATING AND DHW

- with integral stainless steel DHW heat exchanger
- for demand-dependent, hygienic DHW heating
- precise flow control ensures constant draw-off temperature



MODULATION RANGE for flow / return 50 / 30 °C		BOOSTER OUTPUT for DHW heating	
CGB-2K-20	from 4.4 to 20.4 kW	CGB-2K-20	22.2 kW
CGB-2K-24	from 5.6 to 25.8 kW	CGB-2K-24	27.1 kW

CSW-120

DHW CYLINDER

Cleaning aperture and R¾" connections for flow, return, cold water, hot water and DHW circulation at the top of the cylinder for easy pipework 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 thanks to generously sized indirect coil

R½" drain outlet at the front, incl. drain valve and hose fitting

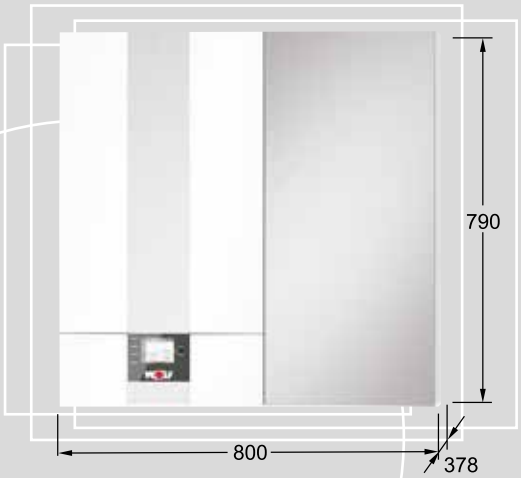
Adjustable feet

5 year statutory warranty

CGW-2-14/100L, -20/120L, -24/140L

GAS CONDENSING CENTRE WITH HIGH PERFORMANCE STAINLESS STEEL STRATIFICATION CYLINDER

Wall mounted gas condensing centre, comprising a wall mounted gas condensing boiler with a stainless steel DHW heat exchanger and a stainless steel stratification cylinder in modular design



MODULATION RANGE for flow / return 50 / 30 °C		BOOSTER OUTPUT for stratification cylinders	
CGW-2-14/100L	from 2.1 to 15.2 kW		
CGW-2-20/120L	from 4.4 to 20.4 kW	CGW-2-20/120L	22.2 kW
CGW-2-24/140L	from 5.6 to 25.8 kW	CGW-2-24/140L	27.1 kW

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 quiet, 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 only takes 10 minutes

High savings on operating costs through efficient DHW heating and innovative insulation technology with integral annular gap system (utility model protection)

Controlled cylinder heating for optimum energy efficiency through the effective utilisation of condensing technology (European patent granted)

Compact layout as condensing boiler with attached stratification cylinder ensures very low installation costs

Gas condensing centre is fully wired and ready to connect to the water system

Can be split quickly and easily into two transportable modules weighing 35 kg and 19 kg for straightforward installation

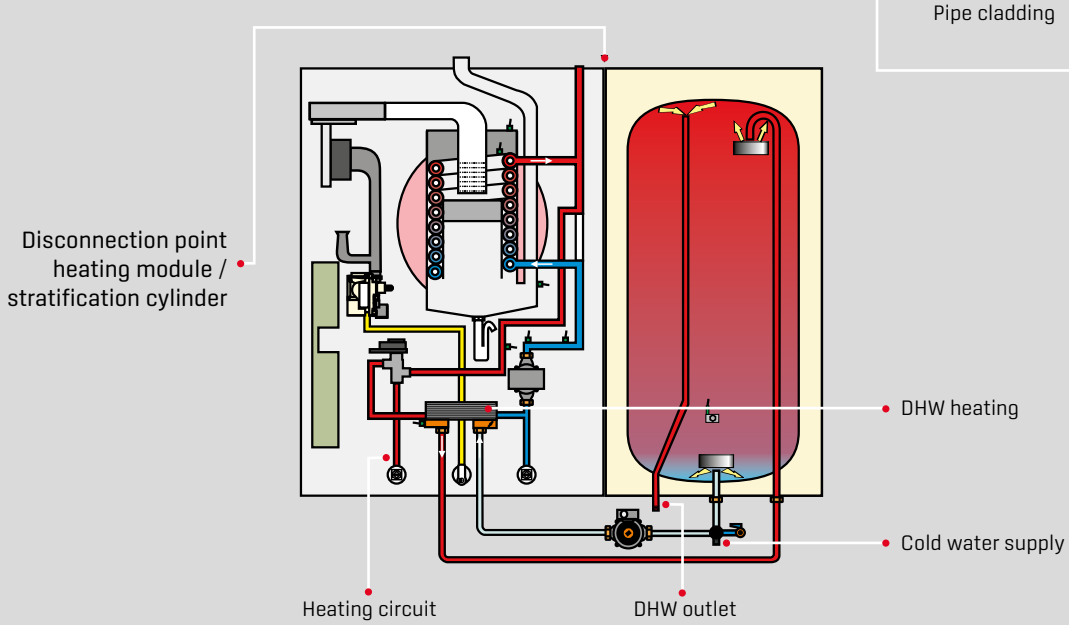
THE FOLLOWING ACCESSORIES ARE AVAILABLE TO ENSURE QUICK AND CLEAN INSTALLATION:

DHW connection set with pressure reducer for concealed installation / surface mounting

DHW connection set without pressure reducer for concealed installation / surface mounting

Solar connection set

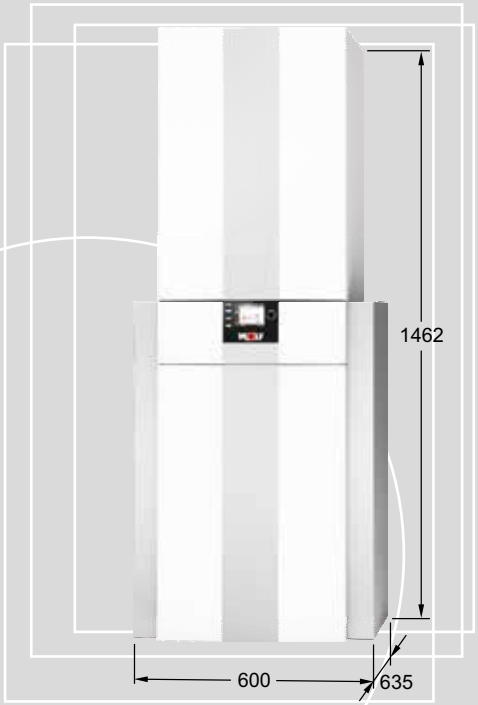
Pipe cladding



CGS-2-14/120L, -20/160L, -24/200L

GAS CONDENSING CENTRE WITH STAINLESS STEEL DHW HEAT EXCHANGER AND ENAMELLED STEEL STRATIFICATION CYLINDER

Gas condensing centre, comprising a wall mounted gas condensing boiler with a stainless steel DHW heat exchanger and a stratification cylinder in modular design



MODULATION RANGE for flow / return 50 / 30 °C		BOOSTER OUTPUT for DHW heating	
CGS-2-14/120L	from 2.1 to 15.2 kW		
CGS-2-20/160L	from 4.4 to 20.4 kW	CGS-2-20/160L	22.2 kW
CGS-2-24/200L	from 5.6 to 25.8 kW	CGS-2-24/200L	27.1 kW

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; the CGS-2-14/120L fills a bath with around 190 l of water at 40 °C in the same time

High output factor N_L = 1.3 or 2.5 for heating from 10 °C to 60 °C

Minimal heat losses thanks to highly efficient insulation technology - just 1.0 kWh standby loss in 24 hours

Compact layout as a wall mounted condensing boiler with stratification cylinder. Can be split easily into two modules of 35 kg and 49 kg respectively for easy installation

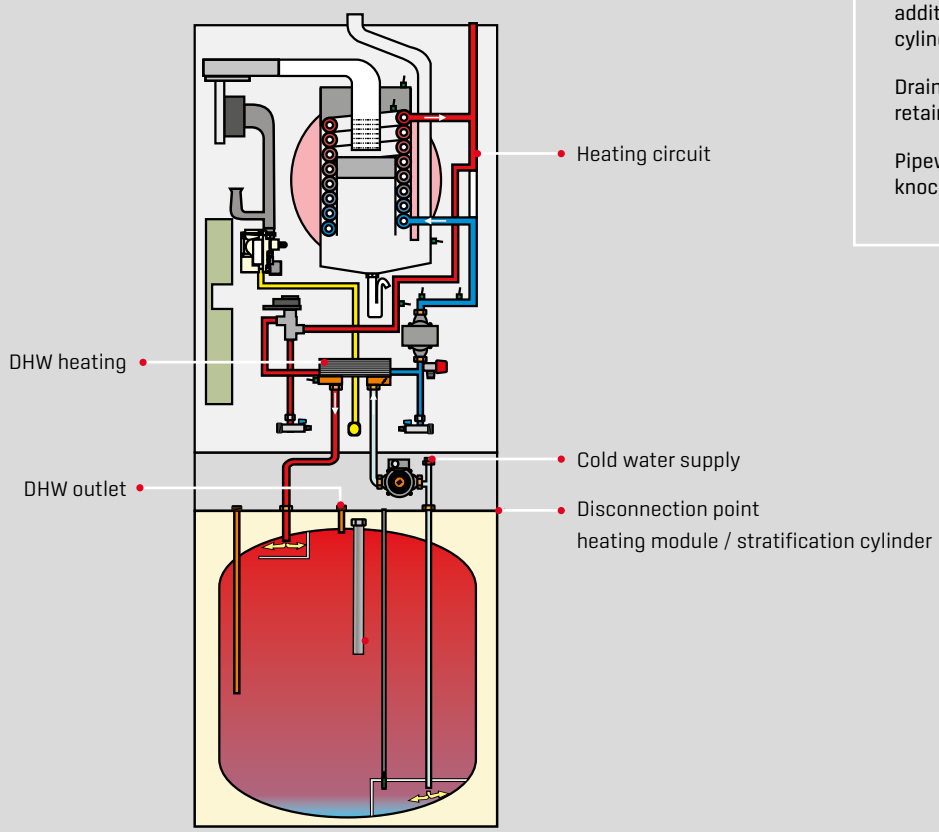
THE FOLLOWING ACCESSORIES ARE AVAILABLE TO ENSURE QUICK AND CLEAN INSTALLATION:

Pipework connection set with flexible stainless steel pipes and thermal insulation, suitable for surface mounting or concealed installation

Solar connection set for the additional control of a solar cylinder

Drain outlet kit with triple hose retainer

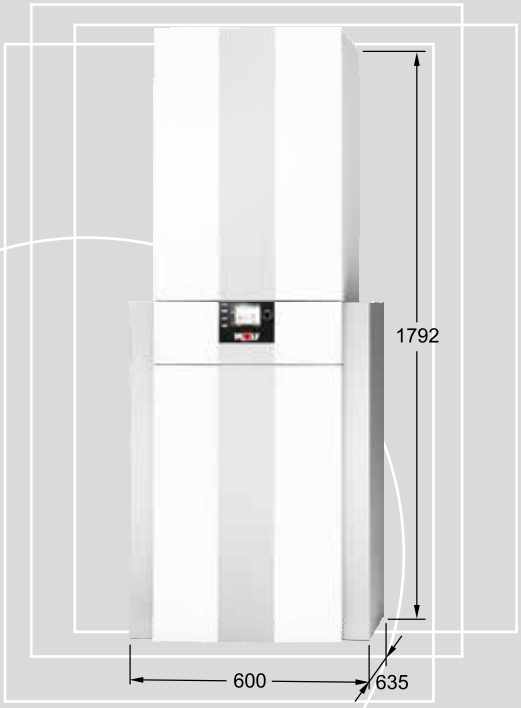
Pipework cladding with variable knock-out entries



CGS-2-14/150R, -20/150R, -24/150R

GAS CONDENSING CENTRE WITH ENAMELLED STEEL DHW CYLINDER WITH INDIRECT COIL

Gas condensing centre, comprising a wall mounted gas condensing boiler and DHW cylinder with indirect coil in a modular design



MODULATION RANGE for flow / return 50 / 30 °C		BOOSTER OUTPUT for DHW heating	
CGS-2-14/150R	from 2.1 to 15.2 kW		
CGS-2-20/150R	from 4.4 to 20.4 kW	CGS-2-20/150R	22.2 kW
CGS-2-24/150R	from 5.6 to 25.8 kW	CGS-2-24/150R	27.1 kW

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 only takes 10 minutes; the CGS-2-14/150R fills a bath with around 210 l of water at 40 °C in the same time

High output factor N_L = 1.4 or 1.8 for heating from 10 °C to 60 °C

Minimal heat losses thanks to highly efficient insulation technology - just 1.47 kWh standby loss in 24 hours

Compact design as condensing boiler and DHW cylinder with indirect coil. Can be split easily into two modules of 35 kg and 80 kg respectively for easy installation

Cylinder heating via robust internal indirect coil with generously sized heat exchanger surface area for short heat-up times

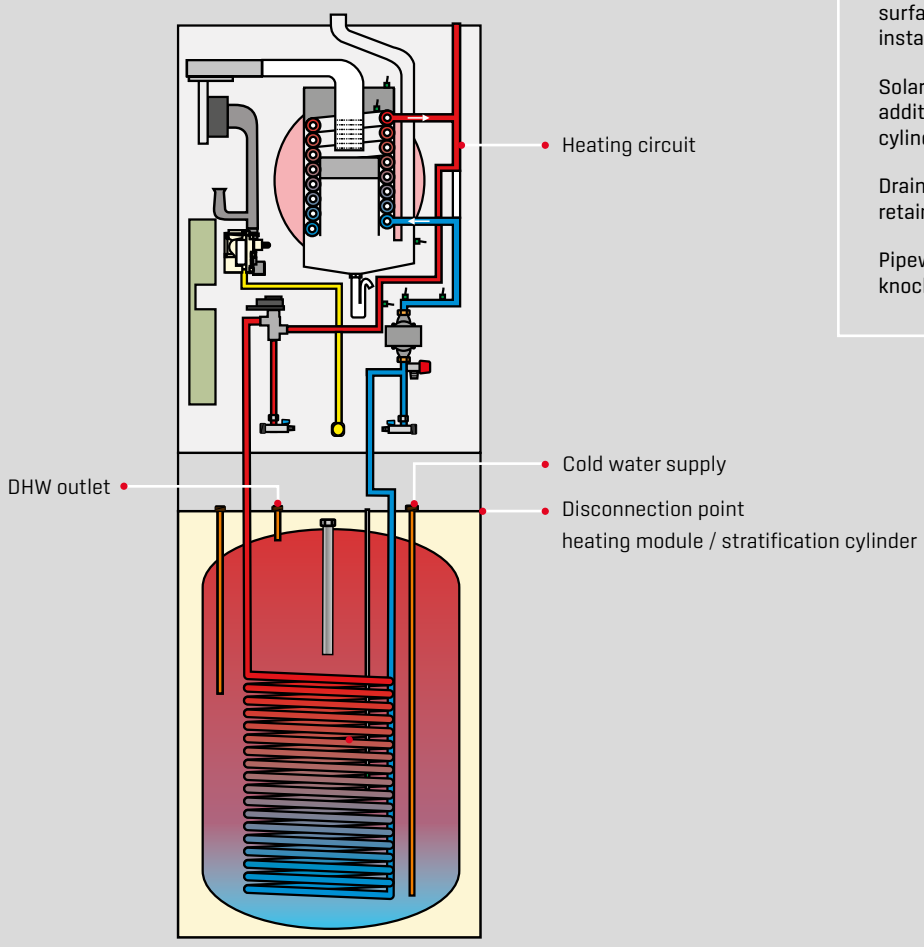
THE FOLLOWING ACCESSORIES ARE AVAILABLE TO ENSURE QUICK AND CLEAN INSTALLATION:

Pipework connection set with flexible stainless steel pipes and thermal insulation, suitable for surface mounting or concealed installation

Solar connection set for the additional control of a solar cylinder

Drain outlet kit with triple hose retainer

Pipework cladding with variable knock-out entries



CSZ-2-14/300R, -20/300R, -24/300R

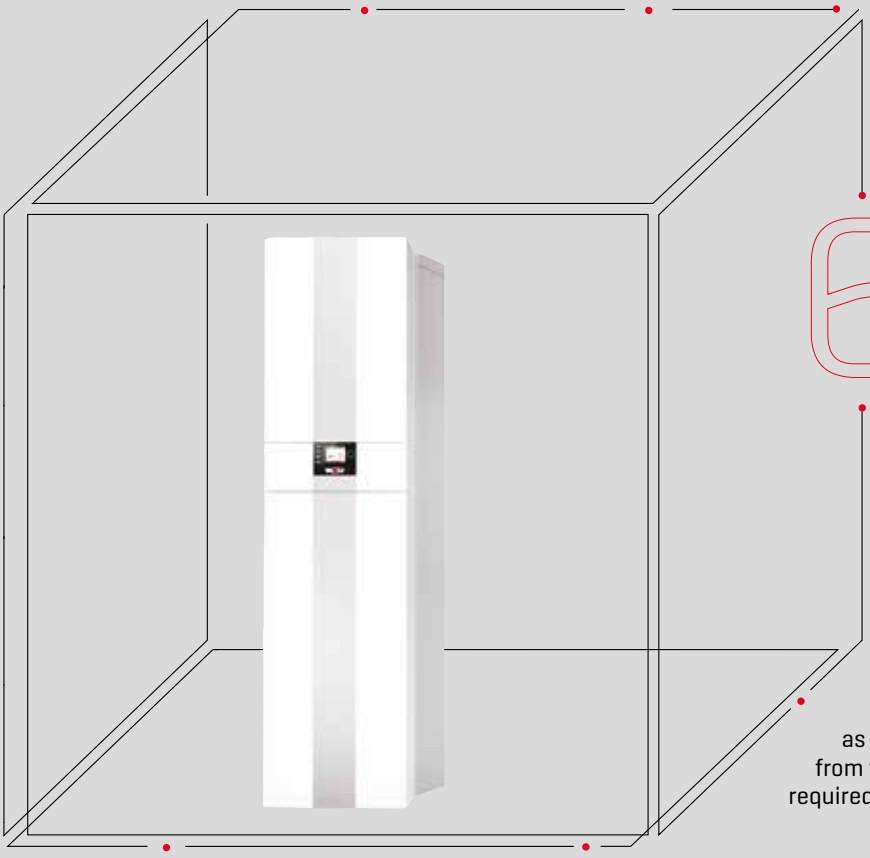
GAS CONDENSING SOLAR CENTRE WITH SOLAR CYLINDER, SOLAR PUMP ASSEMBLY AND CONTROL UNIT

With its CSZ-2 series, WOLF offers the optimum compact solution – gas condensing technology combined with solar DHW heating – with a solar coverage rate of up to 60 % for buildings of up to 150 m^2 available floor area.

Gas condensing boiler, solar cylinder, solar pump assembly with SM1-2 solar module and 25 l expansion vessel; 10 l drip pan for solar fluid, standard control unit for gas condensing boiler with BM-2 programming unit incl. outside temperature sensor

Solar boiler stop for high solar yield

Compact design – the gas condensing solar centre fits in almost any recess



Side clearances for service purposes are not required, as all components are accessible from the front; minimal clearance required on the connection side

Solar cylinder with highly effective thermal insulation, incl. cylinder floor insulation

Connections for central heating and solar circuit either on the left or right; connections for DHW, cold water and DHW circulation at the top

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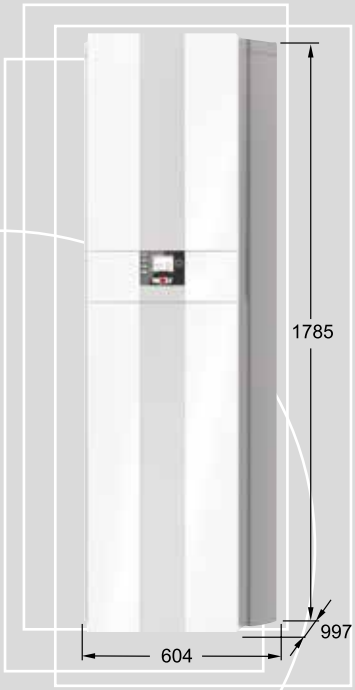
BENEFITS OF WOLF GAS CONDENSING SOLAR CENTRES

CSZ-2

CSZ-2-14/300R, -20/300R, -24/300R

GAS CONDENSING SOLAR CENTRE WITH SOLAR CYLINDER, SOLAR PUMP ASSEMBLY AND CONTROL UNIT

Gas condensing solar centre, comprising a wall mounted gas condensing boiler with solar cylinder, a solar pump assembly with SM1 solar module and 25 l expansion vessel; 10 l drip pan for solar fluid, standard control unit for gas condensing boiler with BM-2 programming unit incl. outside temperature sensor, in a modular design



MODULATION RANGE for flow / return 50 / 30 °C		BOOSTER OUTPUT for cylinder heating	
CSZ-2-14/300R	from 2.1 to 15.2 kW		
CSZ-2-20/300R	from 4.4 to 20.4 kW	CSZ-2-20/300R	22.2 kW
CSZ-2-24/300R	from 5.6 to 25.8 kW	CSZ-2-24/300R	27.1 kW

Wall mounted gas condensing boiler, sealed combustion chamber, for open flue and room sealed operation

High standard seasonal efficiency (to DIN) up to 110 % (net cv) / 99 % (gross cv) for the best possible energy efficiency

Meets the requirements for the "Blue Angel" certificate of environmental excellence according to RAL-UZ 61 when operated with natural gas

Premix burner for natural gas H, LL and LPG, variable modulating heating output from 1.8 kW

With expansion vessel, modulating high efficiency pump (EEI <0.23) and 3-way valve as standard

Heating water heat exchanger can be pivoted under system pressure for maintenance without having to drain the heating water

WOLF "ALUPro" coated heating water heat exchanger

Convenient access to all components for quick installation and straightforward operation and maintenance

Easy flue gas emissions testing from outside without opening the appliance

Efficient combustion technology with gas-adaptive, self-calibrating combustion controller that adjusts automatically to the prevailing gas quality - flue gas inspection only required every 3 years

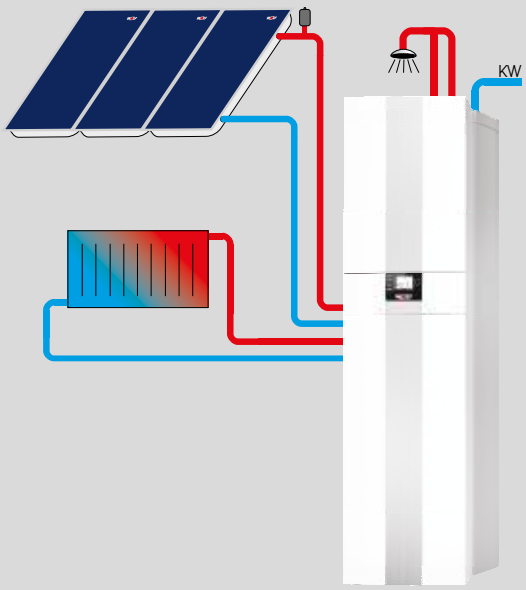
Conversion between natural gas and LPG without conversion kit

Automatic CO_2 setting with self-calibrating combustion controller for all gas types (natural gas, LPG)

New WOLF WRS control system can be set and operated via smartphone or PC

Optimum utilisation of condensing technology by controlling the spread without an overflow valve; no return temperature raising required

WOLF Link home LAN/WLAN module allows communication via smartphone, laptop or PC



Solar cylinder, 285 l capacity, made from steel with two robust, smooth tube internal indirect coils for very hard water, with enamel coating to DIN 4753

Highly effective thermal insulation and low heat losses through high grade rigid PUR foam insulation below the foil jacket of the cylinder

The interior of the cylinder and the indirect coils are protected by an enamel coating and a sacrificial magnesium anode

Large internal indirect coil surface areas ensure a short heat-up time and a high continuous DHW output

Control unit with solar boiler stop for high solar yield

With its compact design in a single casing, requiring just 600 x 1013 mm installation area, the gas condensing solar centre fits in almost any recess

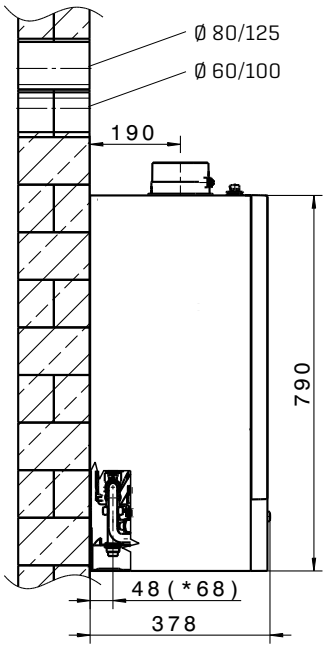
Minimal clearance required on the connection side only

All control and service elements are accessible from the front, enabling a wide range of siting options

SPECIFICATION	CGB-2	14	20	24	-	-
	CGB-2K	-	-	-	20	24
Energy efficiency class, central heating		A	A	A	A	A
Energy efficiency class, DHW heating					A	A
Rated heating 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]
Rated heating output at 50/30 °C	kW	15.2	20.4	25.8	20.4	25.8
Rated heat input	kW	14.0	19.6/23.0	24.6/28.0	19.6/23.0	24.6/28.0
Lowest heating 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]
Lowest heating output (modulating) 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]
Lowest heat input (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]
Heating flow connection	G	¾" (DN 20)	¾" (DN 20)	¾" (DN 20)	¾" (DN 20)	¾" (DN 20)
Heating return connection	G	¾" (DN 20)	¾" (DN 20)	¾" (DN 20)	¾" (DN 20)	¾" (DN 20)
DHW connection	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 pipe connection	mm	60/100	60/100	60/100	60/100	60/100
Dimensions						
Depth				378 mm		
Width				440 mm		
Height				790 mm		
Air/flue gas routing	Type	$B23_P$, $B33_P$, C13(x), C33(x), C43(x), C53(x),C63(x), C83(x), C93(x)				
Gas category				$II_{2N3B/P}$		
Gas connection values						
Natural gas E/H (net cv = 9.5 kWh/m³ = 34.2 MJ/m³)	m³/h	1.44	2.06/2.42	2.52/2.95	2.06/2.42	2.52/2.95
Natural gas LL (net cv = 8.6 kWh/m³ = 31.0 MJ/m³)	m³/h	1.59	2.28/2.67	2.79/3.25	2.28/2.67	2.79/3.25
LPG P (net cv = 12.8 kWh/m³ = 46.1 MJ/m³)	kg/h	1.07	1.53/1.80	1.87/2.19	1.53/1.80	1.87/2.19
Supply pressure, natural gas (permissible min./max.)	mbar			20 (17-25)		
Supply pressure, LPG gas (permissible min./max.)	mbar			30 (25-35)		
Standard seasonal efficiency (to DIN) at 40/30 °C (net cv/gross cv)	%			110/99		
Standard seasonal efficiency (to DIN) at 75/60 °C (net cv/gross cv)	%			107/96		
Efficiency at rated load at 80/60 °C (net cv/gross cv)	%			98/88		
Efficiency at 30 % partial load and TR = 30 °C (net cv/gross cv)	%			108/97		
Flow temperature, factory setting	°C			75		
Flow temperature up to approx.	°C			90		
Max. total pressure	bar			3.0		
Max. residual head for heating circuit: High efficiency pump (EEI <0.23)						
600 l/h flow rate (14 kW at Δt=20 K)	mbar			550		
860 l/h flow rate (20 kW at Δt=20 K)	mbar	-		430		
1030 l/h flow rate (24 kW at Δt=20 K)	mbar	-	-	280	-	280
DHW flow rate	l/min	-	-	-	2.0-6.5	2.0-8.0
Minimum flow pressure to EN 625	bar	-	-	-	0.4	0.65
Spec. water throughput D at ΔT = 30 K	l/min	-	-	-	10.3	13.0
Max. permissible total pressure, DHW	bar	-	-	-	10	10
DHW temperature range (adjustable)	°C	-	-	-	45-65	45-65
DHW capacity of heating water heat exchanger	l			1.3		
Expansion vessel, total capacity	l			10		
Expansion vessel, pre-charge pressure	bar			0.75-0.95		
Flue gas temperature 80/60-50/30 at Qmax	°C	62-45	70-50	76-50	70-50	76-50
Flue gas temperature 80/60-50/30 at Qmin	°C	30-25	30-25	33-27	30-25	33-27
Flue gas mass flow rate at Qmax	g/s	6.2	8.8/10.7 [1]	10.9/13.0 [1]	8.8/10.7 [1]	10.9/13.0 [1]
Flue gas mass flow rate at Qmin	g/s	0.9	1.8	2.3	1.8	2.3
Available gas fan draught at Qmax	Pa	125	135	180	135	180
Available gas fan draught at Qmin	Pa	10	14	17	14	17
Flue gas category				G_{52}		
NOx class				6		
Amount of condensate at 50/30 °C	l/h	appr. 1.4	appr. 2.0	appr. 2.4	appr. 2.0	appr. 2.4
Condensate pH value				appr. 4.0		
Power consumption on standby	W			3		
Maximum power consumption	W	17-45/59 [1]	17-51/63 [1]	17-62/88 [1]	17-51/63 [1]	17-62/88 [1]
IP rating	IP			IP X4D		
Electrical connection/fuse protection				230 V / 50 Hz / 16 A/B		
Total weight	kg		33		35	

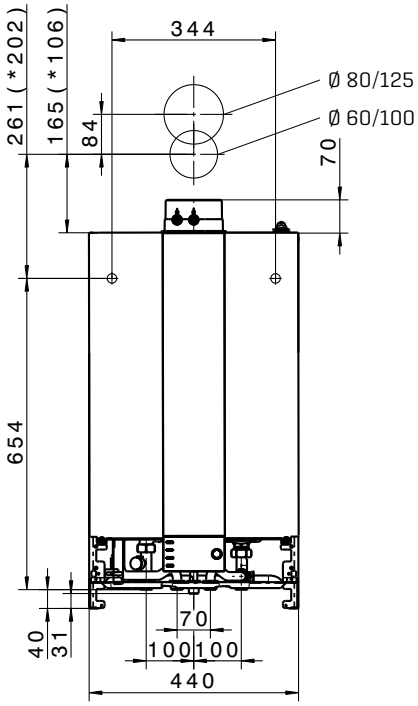
[1] Heating mode/DHW mode
[2] Natural gas/LPG (G31)

CGB-2/CGB-2K



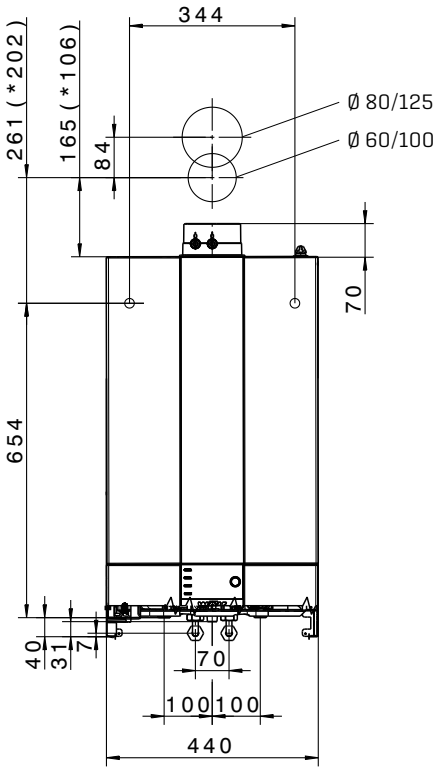
Side view

CGB-2

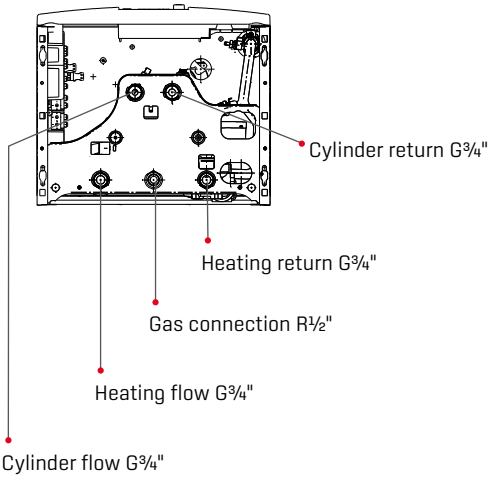


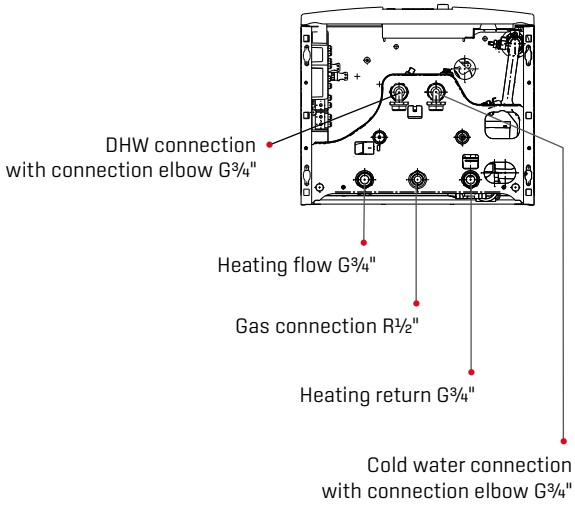
Front view

CGB-2K



Front view



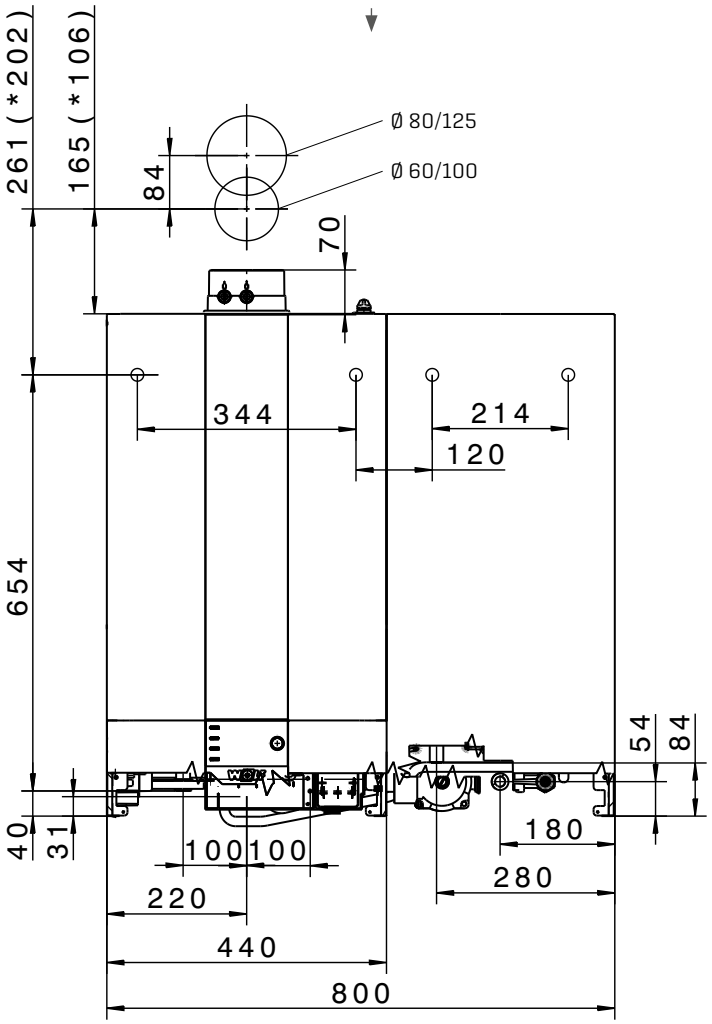


View from below

SPECIFICATION	CGW-2	14/100L	20/120L	24/140L
Energy efficiency class, central heating		A	A	A
Energy efficiency class, DHW heating		A	A	A
Rated heating output at 80/60 °C	kW	13.5	18.9/22.2 [1]	23.8/27.1 [1]
Rated heating output at 50/30 °C	kW	15.2	20.4	25.8
Rated heat input	kW	14.0	19.6/23.0	24.6/28.0
Lowest heating output (modulating) at 80/60 °C	kW	1.8/4.6 [2]	3.8/6.8 [2]	4.8/6.8 [2]
Lowest heating output (modulating) at 50/30 °C	kW	2.1/5.4 [2]	4.4/7.4 [2]	5.6/7.4 [2]
Lowest heat input (modulating)	kW	1.9/4.9 [2]	3.9/6.9 [2]	4.9/6.9 [2]
Heating flow connection	G	¾" (DN 20)	¾" (DN 20)	¾" (DN 20)
Heating return connection	G	¾" (DN 20)	¾" (DN 20)	¾" (DN 20)
DHW connection	G	½"	½"	½"
Cold water connection / DHW circulation	G	¾"	¾"	¾"
Gas connection	R	½"	½"	½"
Air/flue pipe connection	mm	60/100	60/100	60/100
Dimensions				
Depth			378 mm	
Width			800 mm	
Height			790 mm	
Air/flue gas routing	Type	$B23_p$, $B33_p$, C13(x), C33(x), C43(x), C53(x),C63(x), C83(x), C93(x)		
Gas category			$II_{2N3B/P}$	
Gas connection values				
Natural gas E/H (net cv = 9.5 kWh/m³ = 34.2 MJ/m³)	m³/h	1.44	2.06/2.42	2.52/2.95
Natural gas LL (net cv = 8.6 kWh/m³ = 31.0 MJ/m³)	m³/h	1.59	2.28/2.67	2.79/3.25
LPG P (net cv = 12.8 kWh/m³ = 46.1 MJ/m³)	kg/h	1.07	1.53/1.80	1.87/2.19
Supply pressure, natural gas (permissible min./max.)	mbar		20 (17-25)	
Supply pressure, LPG gas (permissible min./max.)	mbar		30 (25-35)	
Standard seasonal efficiency (to DIN) at 40/30 °C (net cv/gross cv)	%		110/99	
Standard seasonal efficiency (to DIN) at 75/60 °C (net cv/gross cv)	%		107/96	
Efficiency at rated load at 80/60 °C (net cv/gross cv)	%		98/88	
Efficiency at 30 % partial load and TR = 30 °C (net cv/gross cv)	%		108/97	
Flow temperature, factory setting	°C		75	
Flow temperature up to approx.	°C		90	
Max. total pressure	bar		3.0	
Max. residual head for heating circuit: High efficiency pump (EEI <0.23)				
600 l/h flow rate (14 kW at Δt=20 K)	mbar		550	
860 l/h flow rate (20 kW at Δt=20 K)	mbar	-		430
1030 l/h flow rate (24 kW at Δt=20 K)	mbar	-	-	280
Max. permissible total pressure, DHW	bar		10	
DHW temperature range (adjustable)	°C		15-65	
Water capacity of heating water heat exchanger	l		1.3	
Nominal capacity of stratification cylinder / equivalent nominal capacity	l	44 / 100	44 / 120	44 / 140
Spec. water throughput D at ΔT = 30 K	l/min	14.3	18.0	20
Continuous DHW output	l/h (kW)	366 (14.6)	560 (23.1)	684 (27.8)
Output factor to DIN 4708	N_L	0.8	1.1	1.5
DHW output	l/10 min	115	150	171
Standby heat loss to EN 12897	kWh/24 h		0.8	
Corrosion protection, DHW heat exchanger / cylinder			Stainless steel	
Expansion vessel, total capacity	l		10	
Expansion vessel, pre-charge pressure	bar		0.75-0.95	
Flue gas temperature 80/60-50/30 at Qmax	°C	62-45	70-50	76-50
Flue gas temperature 80/60-50/30 at Qmin	°C	30-25	30-25	33-27
Flue gas mass flow rate at Qmax	g/s	6.2	8.8/10.7 [1]	10.9/13.0 [1]
Flue gas mass flow rate at Qmin	g/s	0.9	1.8	2.3
Available gas fan draught at Qmax	Pa	125	135	180
Available gas fan draught at Qmin	Pa	10	14	17
Flue gas category			G_{52}	
NOx class			5	
Amount of condensate at 50/30 °C	l/h	appr. 1.4	appr. 2.0	appr. 2.4
Condensate pH value			appr. 4.0	
Power consumption on standby	W		3	
Maximum power consumption	W	17-45/93 [1]	17-51/110 [1]	17-62/135 [1]
IP rating	IP		IP X4D	
Electrical connection/fuse protection			230 V / 50 Hz / 16 A/B	
Total weight	kg		54 (35+19)	

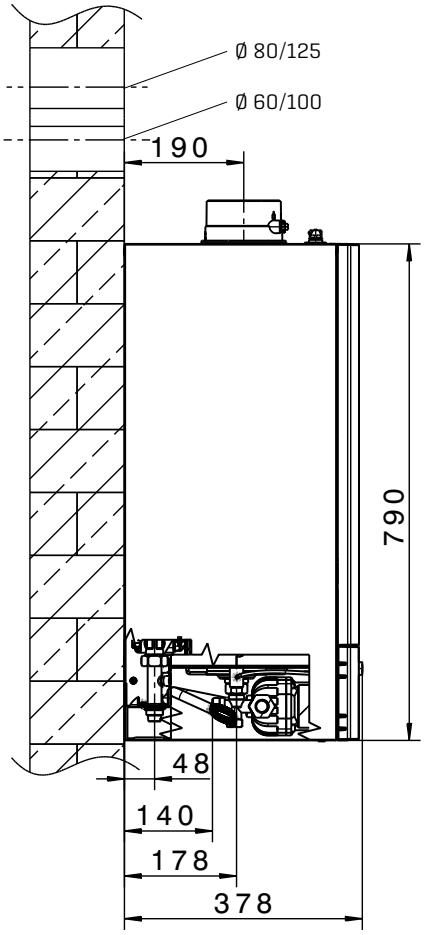
[1] Heating mode/DHW mode
[2] Natural gas/LPG (G31)

CGW-2



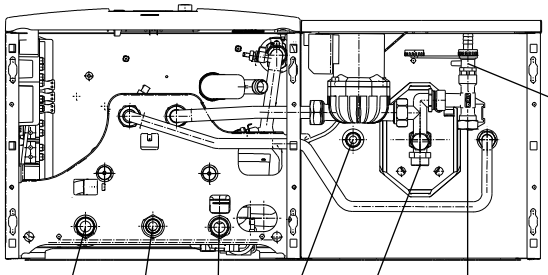
Front view

CGW-2



Side view

View from below



Drain & fill valve

DHW circulation connection G¾"

Cold water connection G¾"

DHW connection G½"

Heating return G¾"

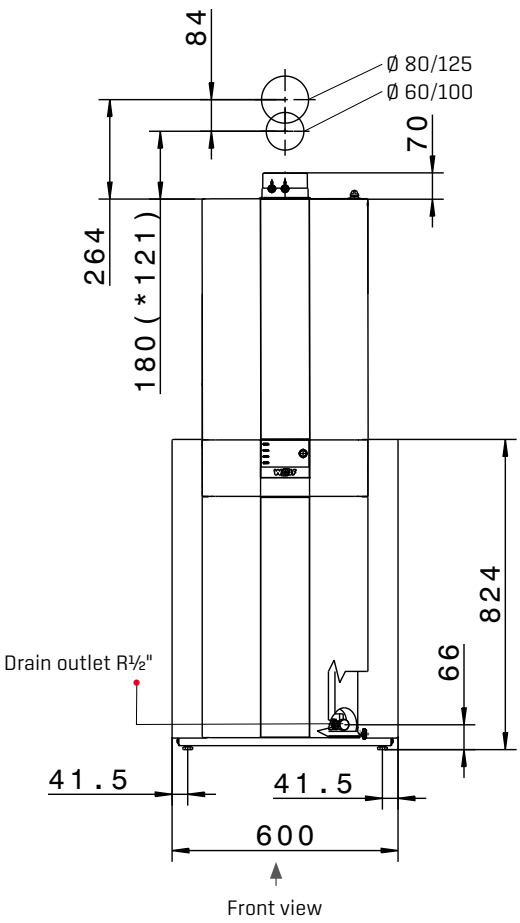
Gas connection R½"

Heating flow G¾"

SPECIFICATION	CGS-2	14/120L	20/160L	24/200L
Energy efficiency class, central heating		A	A	A
Energy efficiency class, DHW heating		A	A	A
Rated heating output at 80/60 °C	kW	13.5	18.9/22.2 [1]	23.8/27.1 [1]
Rated heating output at 50/30 °C	kW	15.2	20.4	25.8
Rated heat input	kW	14.0	19.6/23.0	24.6/28.0
Lowest heating output (modulating) at 80/60 °C	kW	1.8/4.6 [2]	3.8/6.8 [2]	4.8/6.8 [2]
Lowest heating output (modulating) at 50/30 °C	kW	2.1/5.4 [2]	4.4/7.4 [2]	5.6/7.4 [2]
Lowest heat input (modulating)	kW	1.9/4.9 [2]	3.9/6.9 [2]	4.9/6.9 [2]
Heating flow connection	G	¾" (DN 20)	¾" (DN 20)	¾" (DN 20)
Heating return connection	G	¾" (DN 20)	¾" (DN 20)	¾" (DN 20)
DHW connection	G	½"	½"	½"
Cold water connection / DHW circulation	G	¾"	¾"	¾"
Gas connection	R	½"	½"	½"
Air/flue pipe connection	mm	60/100	60/100	60/100
Dimensions				
Depth			378 mm	
Width			600 mm	
Height			1462 mm	
Air/flue gas routing	Type		$B23_p$, $B33_p$, C13(x), C33(x), C43(x), C53(x),C63(x), C83(x), C93(x)	
Gas category			$II_{2N3B/P}$	
Gas connection values				
Natural gas E/H (net cv = 9.5 kWh/m³ = 34.2 MJ/m³)	m³/h	1.44	2.06/2.42	2.52/2.95
Natural gas LL (net cv = 8.6 kWh/m³ = 31.0 MJ/m³)	m³/h	1.59	2.28/2.67	2.79/3.25
LPG P (net cv = 12.8 kWh/m³ = 46.1 MJ/m³)	kg/h	1.07	1.53/1.80	1.87/2.19
Supply pressure, natural gas (permissible min./max.)	mbar		20 (17-25)	
Supply pressure, LPG gas (permissible min./max.)	mbar		30 (25-35)	
Standard seasonal efficiency (to DIN) at 40/30 °C (net cv/gross cv)	%		110/99	
Standard seasonal efficiency (to DIN) at 75/60 °C (net cv/gross cv)	%		107/96	
Efficiency at rated load at 80/60 °C (net cv/gross cv)	%		98/88	
Efficiency at 30 % partial load and TR = 30 °C (net cv/gross cv)	%		108/97	
Flow temperature, factory setting	°C		75	
Flow temperature up to approx.	°C		90	
Max. total pressure	bar		3.0	
Max. residual head for heating circuit: High efficiency pump (EEI <0.23)				
600 l/h flow rate (14 kW at Δt=20 K)	mbar		550	
860 l/h flow rate (20 kW at Δt=20 K)	mbar	-		430
1030 l/h flow rate (24 kW at Δt=20 K)	mbar	-	-	280
Max. permissible total pressure, DHW	bar		10	
DHW temperature range (adjustable)	°C		15-65	
Water capacity of heating water heat exchanger	l		1.3	
Nominal capacity of stratification cylinder / equivalent nominal capacity	l	90 / 120	90 / 160	90 / 200
Spec. water throughput D at ΔT = 30 K	l/min	18.7	23.2	25.2
Continuous DHW output	l/h (kW)	366 (14.6)	560 (23.1)	684 (27.8)
Output factor to DIN 4708	N_L	1.3	2.1	2.5
DHW output	l/10 min	161	199	215
Standby heat loss to EN 12897	kWh/24 h		1.0	
Corrosion protection, DHW heat exchanger / cylinder			Stainless steel / two-layer enamel coating to DIN 4753	
Expansion vessel, total capacity	l		10	
Expansion vessel, pre-charge pressure	bar		0.75-0.95	
Flue gas temperature 80/60-50/30 at Qmax	°C	62-45	70-50	76-50
Flue gas temperature 80/60-50/30 at Qmin	°C	30-25	30-25	33-27
Flue gas mass flow rate at Qmax	g/s	6.2	8.8/10.7 [1]	10.9/13.0 [1]
Flue gas mass flow rate at Qmin	g/s	0.9	1.8	2.3
Available gas fan draught at Qmax	Pa	125	135	180
Available gas fan draught at Qmin	Pa	10	14	17
Flue gas category			G_{52}	
NOx class			5	
Amount of condensate at 50/30 °C	l/h	appr. 1.4	appr. 2.0	appr. 2.4
Condensate pH value			appr. 4.0	
Power consumption on standby	W		3	
Maximum power consumption	W	17-45/93 [1]	17-51/110 [1]	17-62/135 [1]
IP rating	IP		IP X4D	
Electrical connection/fuse protection			230 V / 50 Hz / 16 A/B	
Total weight	kg		84 (35+49)	

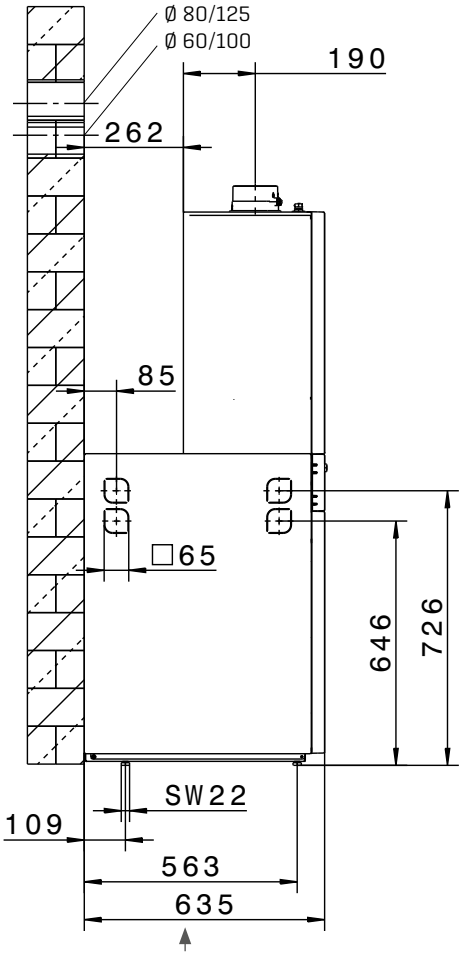
[1] Heating mode/DHW mode
[2] Natural gas/LPG (G31)

CGS-2L



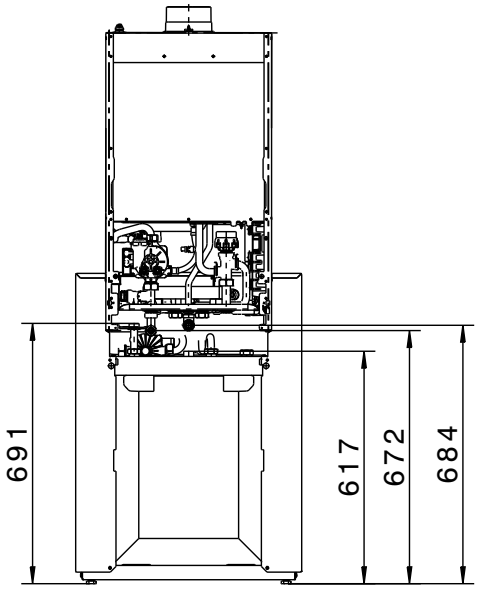
Front view

CGS-2L

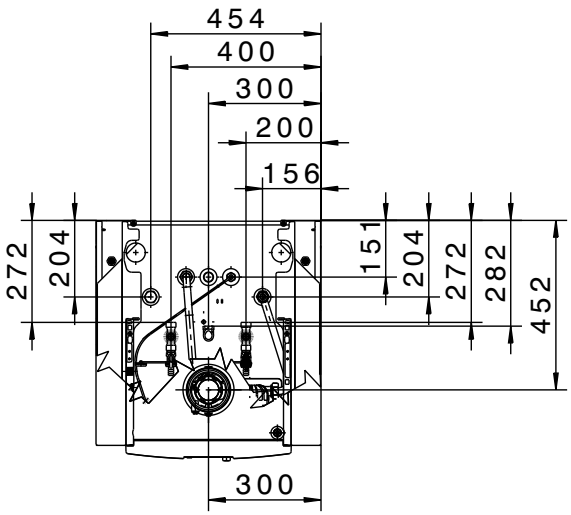


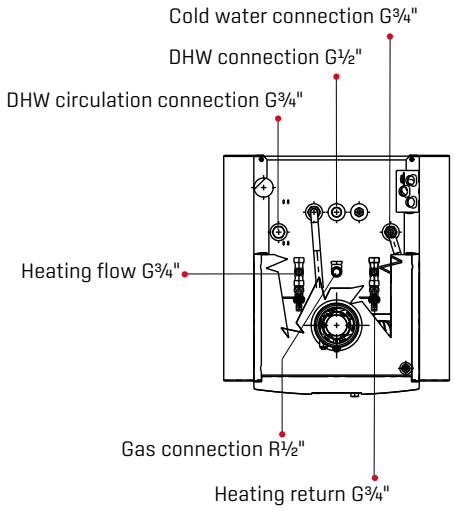
Side view

CGS-2L



Back view



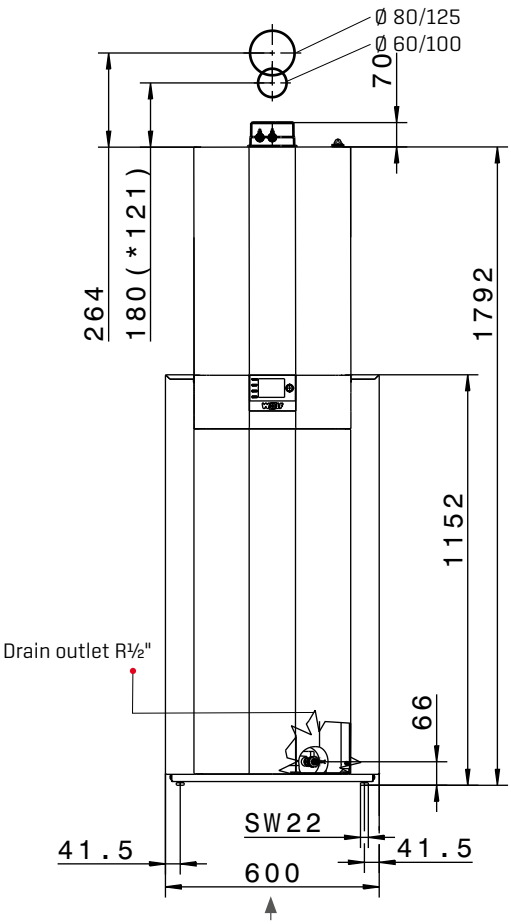


Top view

SPECIFICATION	CGS-2	14/150R	20/150R	24/150R
Energy efficiency class, central heating		A	A	A
Energy efficiency class, DHW heating		A	A	A
Rated heating output at 80/60 °C	kW	13.5	18.9/22.2 [1]	23.8/27.1 [1]
Rated heating output at 50/30 °C	kW	15.2	20.4	25.8
Rated heat input	kW	14.0	19.6/23.0	24.6/28.0
Lowest heating output (modulating) at 80/60 °C	kW	1.8/4.6 [2]	3.8/6.8 [2]	4.8/6.8 [2]
Lowest heating output (modulating) at 50/30 °C	kW	2.1/5.4 [2]	4.4/7.4 [2]	5.6/7.4 [2]
Lowest heat input (modulating)	kW	1.9/4.9 [2]	3.9/6.9 [2]	4.9/6.9 [2]
Heating flow connection	G	¾" (DN 20)	¾" (DN 20)	¾" (DN 20)
Heating return connection	G	¾" (DN 20)	¾" (DN 20)	¾" (DN 20)
DHW connection	G	½"	½"	½"
Cold water connection / DHW circulation	G	¾"	¾"	¾"
Gas connection	R	½"	½"	½"
Air/flue pipe connection	mm	60/100	60/100	60/100
Dimensions				
Depth			635 mm	
Width			600 mm	
Height			1792 mm	
Air/flue gas routing	Type	$B23_p$, $B33_p$, C13(x), C33(x), C43(x), C53(x),C63(x), C83(x), C93(x)		
Gas category			$II_{2N3B/P}$	
Gas connection values				
Natural gas E/H (net cv = 9.5 kWh/m³ = 34.2 MJ/m³)	m³/h	1.44	2.06/2.42	2.52/2.95
Natural gas LL (net cv = 8.6 kWh/m³ = 31.0 MJ/m³)	m³/h	1.59	2.28/2.67	2.79/3.25
LPG P (net cv = 12.8 kWh/m³ = 46.1 MJ/m³)	kg/h	1.07	1.53/1.80	1.87/2.19
Supply pressure, natural gas (permissible min./max.)	mbar		20 (17-25)	
Supply pressure, LPG gas (permissible min./max.)	mbar		30 (25-35)	
Standard seasonal efficiency (to DIN) at 40/30 °C (net cv/gross cv)	%		110/99	
Standard seasonal efficiency (to DIN) at 75/60 °C (net cv/gross cv)	%		107/96	
Efficiency at rated load at 80/60 °C (net cv/gross cv)	%		98/88	
Efficiency at 30 % partial load and TR = 30 °C (net cv/gross cv)	%		108/97	
Flow temperature, factory setting	°C		75	
Flow temperature up to approx.	°C		90	
Max. total pressure	bar		3.0	
Max. residual head for heating circuit: High efficiency pump (EEI <0.23)				
600 l/h flow rate (14 kW at Δt=20 K)	mbar		550	
860 l/h flow rate (20 kW at Δt=20 K)	mbar	-		430
1030 l/h flow rate (24 kW at Δt=20 K)	mbar	-	-	280
Max. permissible total pressure, DHW	bar		10	
DHW temperature range (adjustable)	°C		15-65	
Water capacity of heating water heat exchanger	l		1.3	
Nominal capacity of cylinder with internal indirect coil	l		145	
Spec. water throughput D at ΔT = 30 K	l/min	19.7	21.4	21.7
Continuous DHW output	l/h (kW)	324 (13.6)	555 (22.6)	612 (25)
Output factor to DIN 4708	N_L	1.7	2.0	2.2
DHW output	l/10 min	162	176	182
Standby heat loss to EN 12897	kWh/24 h		1.47	
Corrosion protection, DHW heat exchanger / cylinder			Stainless steel / two-layer enamel coating to DIN 4753	
Expansion vessel, total capacity	l		10	
Expansion vessel, pre-charge pressure	bar		0.75-0.95	
Flue gas temperature 80/60-50/30 at Qmax	°C	62-45	70-50	76-50
Flue gas temperature 80/60-50/30 at Qmin	°C	30-25		33-27
Flue gas mass flow rate at Qmax	g/s	6.2	8.8/10.7 [1]	10.9/13.0 [1]
Flue gas mass flow rate at Qmin	g/s	0.9	1.8	2.3
Available gas fan draught at Qmax	Pa	125	135	180
Available gas fan draught at Qmin	Pa	10	14	17
Flue gas category			G_{52}	
NOx class			5	
Amount of condensate at 50/30 °C	l/h	appr. 1.4	appr. 2.0	appr. 2.4
Condensate pH value			appr. 4.0	
Power consumption on standby	W		3	
Maximum power consumption	W	17-49/59 [1]	17-51/63 [1]	17-62/88 [1]
IP rating	IP		IP X4D	
Electrical connection/fuse protection			230 V / 50 Hz / 16 A/B	
Total weight	kg		115 (35+80)	

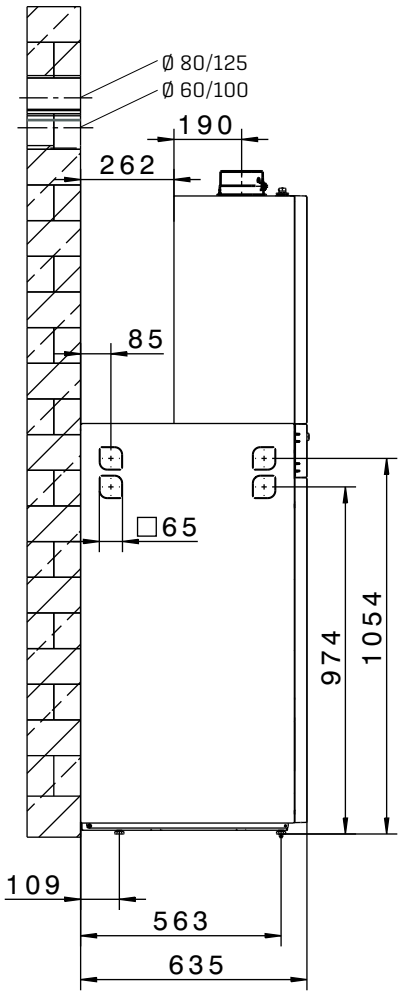
[1] Heating mode/DHW mode
[2] Natural gas/LPG (G31)

CGS-2R



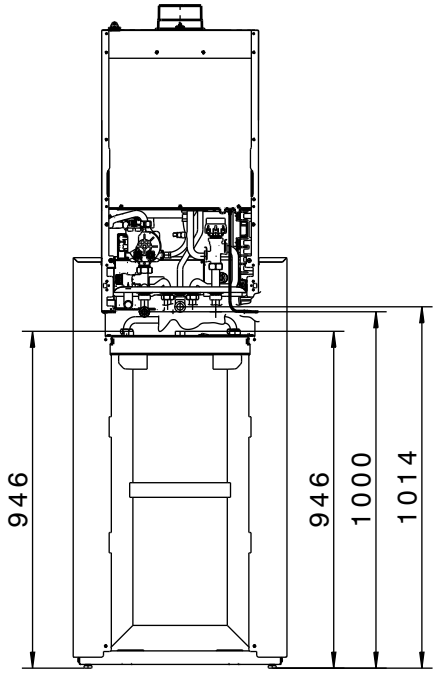
Front view

CGS-2R

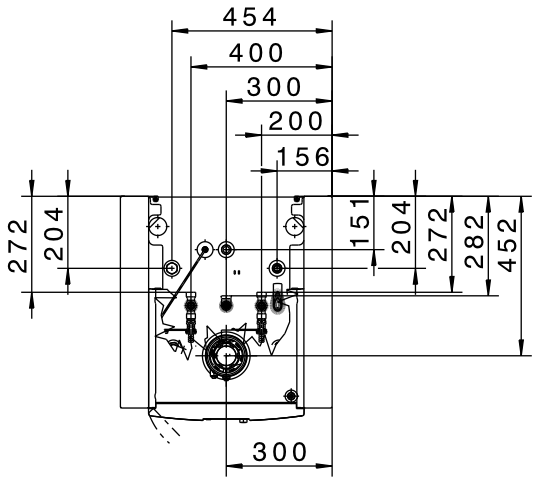


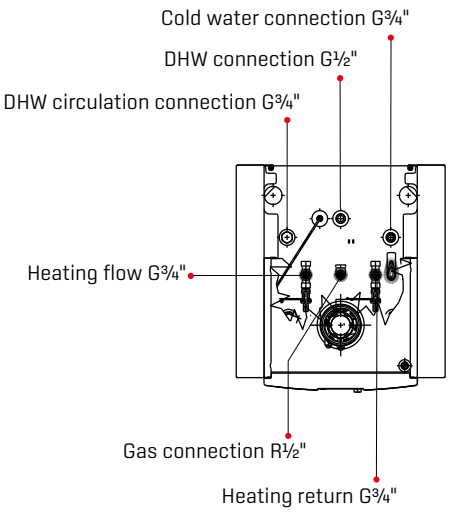
Side view

CGS-2R



Back view

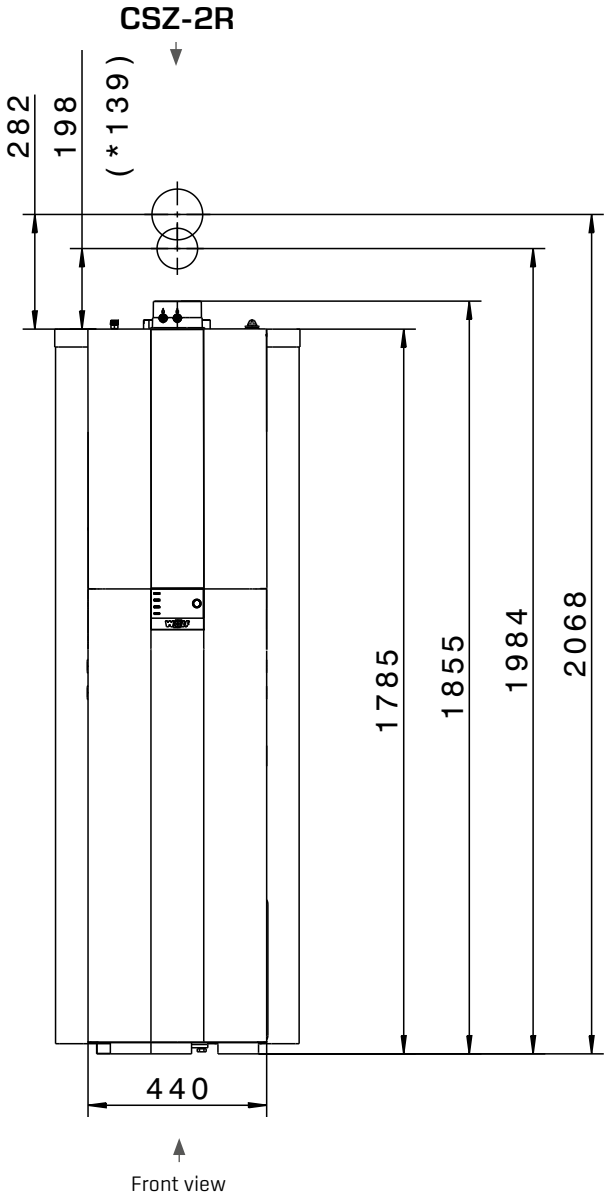


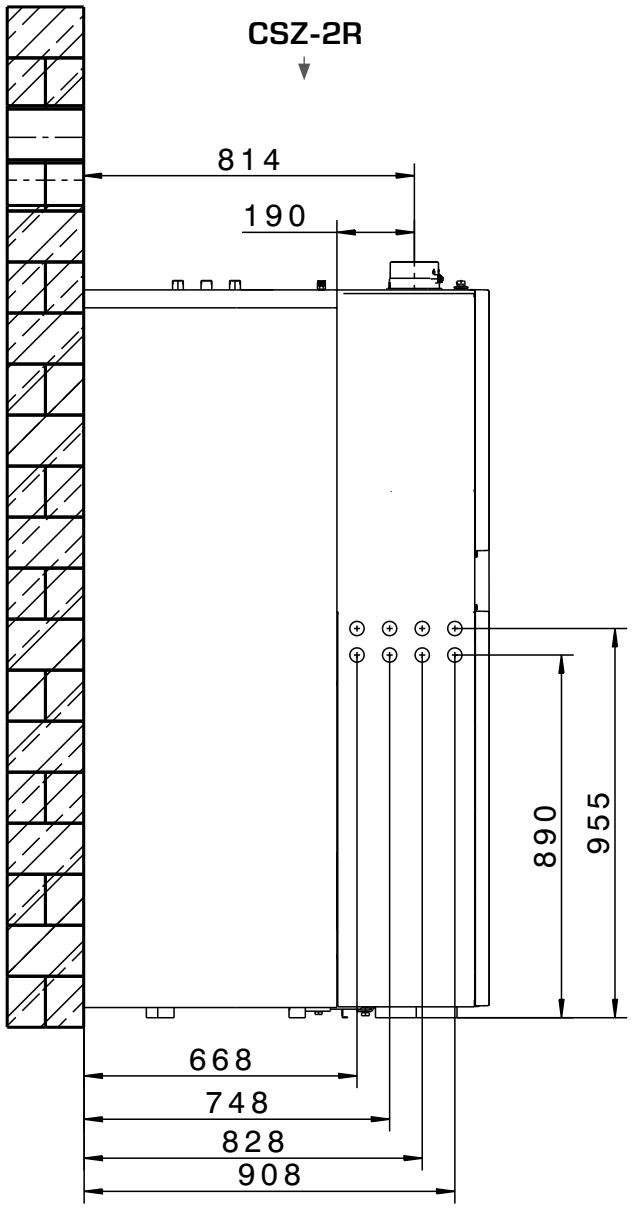


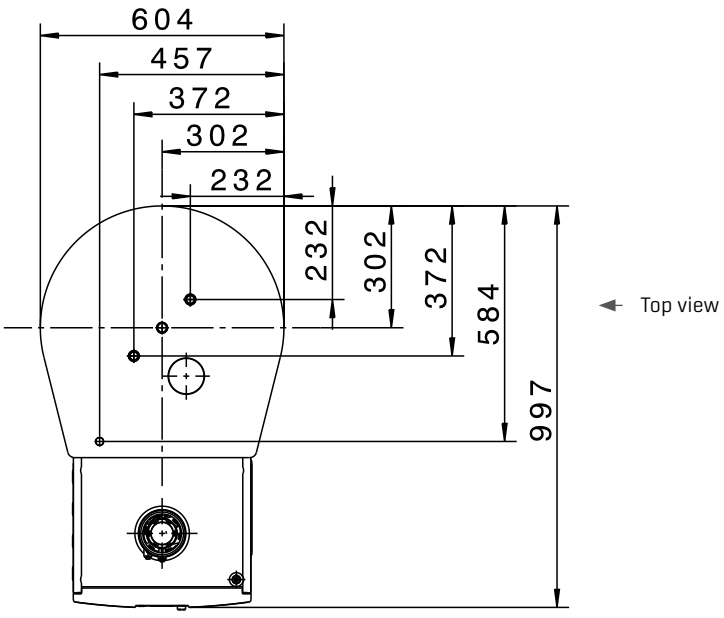
Top view

SPECIFICATION	CSZ-2	14/300R	20/300R	24/300R
Energy efficiency class, central heating		A	A	A
Energy efficiency class, DHW heating		A	A	A
Rated heating output at 80/60 °C	kW	13.5	18.9/22.2 [1]	23.8/27.1 [1]
Rated heating output at 50/30 °C	kW	15.2	20.4	25.8
Rated heat input	kW	14.0	19.6/23.0	24.6/28.0
Lowest heating output (modulating) at 80/60 °C	kW	1.8/4.6 [2]	3.8/6.8 [2]	4.8/6.8 [2]
Lowest heating output (modulating) at 50/30 °C	kW	2.1/5.4 [2]	4.4/7.4 [2]	5.6/7.4 [2]
Lowest heat input (modulating)	kW	1.9/4.9 [2]	3.9/6.9 [2]	4.9/6.9 [2]
Heating flow connection	G	¾" (DN 20)	¾" (DN 20)	¾" (DN 20)
Heating return connection	G	¾" (DN 20)	¾" (DN 20)	¾" (DN 20)
DHW connection	G	½"	½"	½"
Cold water connection / DHW circulation	G	¾"	¾"	¾"
Gas connection	R	½"	½"	½"
Air/flue pipe connection	mm	60/100	60/100	60/100
Dimensions				
Depth			1013 mm	
Width			600 mm	
Height			1785 mm	
Air/flue gas routing	Type	$B23_P$, $B33_P$, C13(x), C33(x), C43(x), C53(x),C63(x), C83(x), C93(x)		
Gas category			$II_{2N3B/P}$	
Gas connection values				
Natural gas E/H (net cv = 9.5 kWh/m³ = 34.2 MJ/m³)	m³/h	1.44	2.06/2.42	2.52/2.95
Natural gas LL (net cv = 8.6 kWh/m³ = 31.0 MJ/m³)	m³/h	1.59	2.28/2.67	2.79/3.25
LPG P (net cv = 12.8 kWh/m³ = 46.1 MJ/m³)	kg/h	1.07	1.53/1.80	1.87/2.19
Supply pressure, natural gas (permissible min./max.)	mbar		20 (17-25)	
Supply pressure, LPG gas (permissible min./max.)	mbar		30 (25-35)	
Standard seasonal efficiency (to DIN) at 40/30 °C (net cv/gross cv)	%		110/99	
Standard seasonal efficiency (to DIN) at 75/60 °C (net cv/gross cv)	%		107/96	
Efficiency at rated load at 80/60 °C (net cv/gross cv)	%		98/88	
Efficiency at 30 % partial load and TR = 30 °C (net cv/gross cv)	%		108/97	
Flow temperature, factory setting	°C		75	
Flow temperature up to approx.	°C		90	
Max. total pressure	bar		3.0	
Max. residual head for heating circuit: High efficiency pump (EEI <0.23)				
600 l/h flow rate (14 kW at Δt=20 K)	mbar		550	
860 l/h flow rate (20 kW at Δt=20 K)	mbar	-		430
1030 l/h flow rate (24 kW at Δt=20 K)	mbar	-	-	280
Max. permissible total pressure, DHW	bar		10	
DHW temperature range (adjustable)	°C		15-65	
Water capacity of the heat exchanger, heating/solar	l		6.6 / 8.8	
Nominal cylinder capacity	l		285	
Spec. water throughput D at ΔT = 30 K	l/min	20.5	24.5	24.5
Continuous DHW output	l/h (kW)	366 (14.6)	560 (23.1)	684 (27.8)
Output factor to DIN 4708	N_L	1.5	2.3	2.3
DHW output	l/10 min	175	210	210
Standby heat loss to EN 12897	kWh/24 h		2.3	
Cylinder corrosion protection			Two-layer enamel coating to DIN 4753	
Expansion vessel, total capacity	l		10	
Expansion vessel, pre-charge pressure	bar		0.75-0.95	
Flue gas temperature 80/60-50/30 at Qmax	°C	62-45	70-50	76-50
Flue gas temperature 80/60-50/30 at Qmin	°C	30-25		33-27
Flue gas mass flow rate at Qmax	g/s	6.2	8.8/10.7 [1]	10.9/13.0 [1]
Flue gas mass flow rate at Qmin	g/s	0.9	1.8	2.3
Available gas fan draught at Qmax	Pa	125	135	180
Available gas fan draught at Qmin	Pa	10	14	17
Flue gas category			G_{52}	
NOx class			5	
Amount of condensate at 50/30 °C	l/h	appr. 1.4	appr. 2.0	appr. 2.4
Condensate pH value			appr. 4.0	
Power consumption on standby	W		3	
Maximum power consumption	W	17-49/59 [1]	17-51/63 [1]	17-62/88 [1]
IP rating	IP		IP X4D	
Electrical connection/fuse protection			230 V / 50 Hz / 16 A/B	
Total weight	kg		160 (35+125)	

[1] Heating mode/DHW mode
[2] Natural gas/LPG (G31)

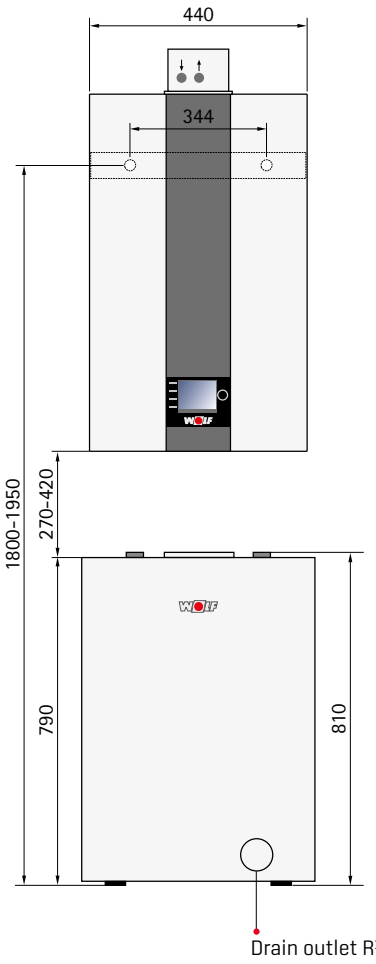

CSZ-2R
282
198
(*139)
1785
1855
1984
2068
440
Front view


CSZ-2R
814
190
890
955
668
748
828
908
Side view


604
457
372
302
232
232
302
372
584
997
Top view

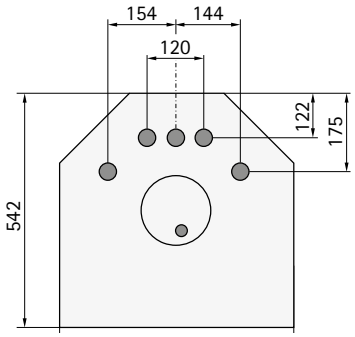
SPECIFICATION	CSW	120
Cylinder energy efficiency class		B
Cylinder capacity	l	115
Continuous cylinder output (80/60 - 10/45 °C)	kW - l/h	29 - 710
Standby heat loss	kWh/24 h	1.11
Output factor	N_L	1.0
Permissible operating pressure, DHW	bar	10
Permissible operating pressure, heating water	bar	12
Max. permissible cylinder water temperature	°C	95
Max. permissible heating water temperature	°C	110
Cold water connection	G	¾"
DHW connection	G	¾"
Cylinder flow	R	¾"
Cylinder return	R	¾"
DHW circulation	G	¾"
Drain outlet	R	½"
Sensor well	Ø mm	12
Dry weight	kg	65

CSW-120

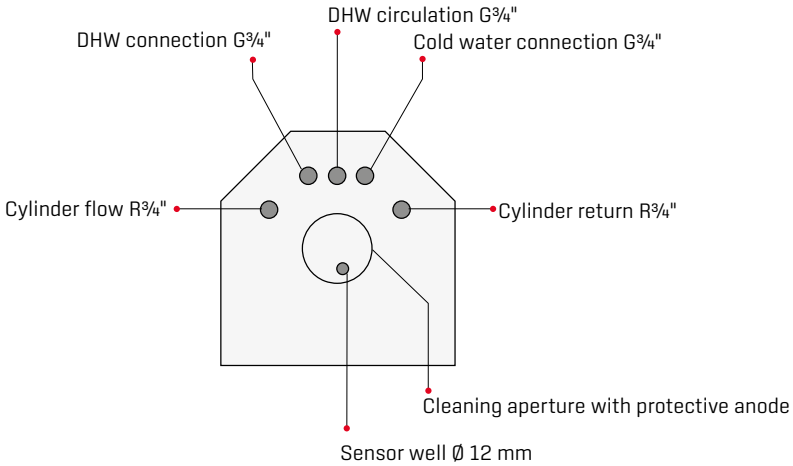


Front view

CSW-120



Top view



Top view

STANDARD CONTROL UNIT

The operation of a CGB-2(K)/CGW-2/CGS-2/CSZ-2 gas condensing boiler requires either an AM display module or a BM-2 programming unit.

AM **or** **BM-2**

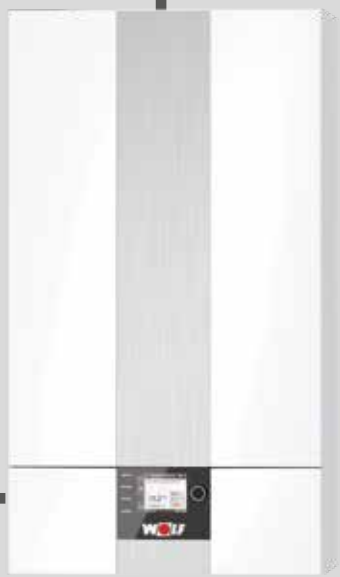
The AM functions solely as a display module for the heat generator. Appliance-specific parameters and values can be programmed and displayed.

AM display module

- Display module for the heat generator
- Only required if BM-2 is used as a remote control or in a cascade circuit
- Operated by rotary selector with pushbutton function
- 4 quick start keys for frequently used functions
- Backlit LCD
- AM is always inside the heat generator

BM-2 programming unit

- in black and white
- weather-compensated flow temperature
- Time programs for heating, DHW and DHW circulation
- 3.5" colour display
- Easy user prompts via plain text display
- Operated by rotary selector with pushbutton function
- 4 function keys for frequently used functions
- microSD card slot for software update
- Installation either inside the boiler control unit or in wall mounting base as a remote control
- Only one programming unit required for multi boiler systems
- Can be extended with MM-2 mixer module (up to 7 heating circuits with mixer)
- Part of the standard delivery for CSZ-2
- BM-2 can also be used as a remote control for the CWL Excellent ventilation unit (one programming unit for heating and ventilation)



2-wire eBUS connection

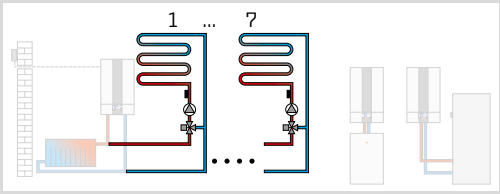
AM display module or BM-2 programming unit; an essential requirement

BM-2 programming unit in black or white (if BM-2 is inside the heat generator, max. 6 additional remote controls are possible)

2-wire eBUS connection

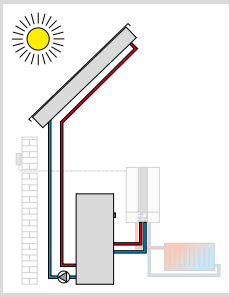
MM-2 mixer module

- Extension module to control one circuit with mixer
- Weather-compensated flow temperature control
- Easy controller configuration by selecting one of the preset system versions
- BM-2 programming unit with wall mounting base can be extended to serve as a remote control
- Rast 5 connection technology
- Incl. flow temperature sensor



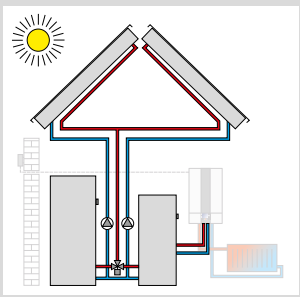
SM1-2 solar module

- Extension module to control one solar circuit incl. collector temperature sensor, cylinder temperature sensor and sensor wells
- In conjunction with WOLF heat generators, greater energy savings through intelligent cylinder reheating, i.e. blocking cylinder reheating when there is sufficient solar energy
- Heat metering with external heat meter
- Function check for flow rate and gravity brake
- Temperature differential control for one heat consumer
- Maximum cylinder temperature limit
- Indication of set and actual values on the BM-2 programming unit
- Integral hours run meter
- eBUS interface with automatic energy management
- Rast 5 connection technology
- Part of the standard delivery for CSZ-2



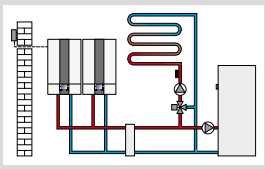
SM2-2 solar module

- Extension module to control one solar thermal system with up to 2 cylinders and 2 collector arrays, incl. 1 collector sensor and 1 cylinder sensor, each with sensor well
- Easy controller configuration by selecting one of the preset system versions
- In conjunction with WOLF heat generators, greater energy savings through intelligent cylinder reheating, i.e. blocking cylinder reheating when there is sufficient solar energy
- Heat metering with external heat meter for all configurations
- Selection of cylinder operating mode
- Indication of set and actual values on the BM-2 programming unit
- eBUS interface with automatic energy management
- Rast 5 connection technology



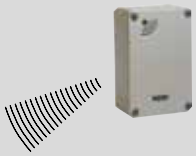
KM-2 cascade module

- Extension module to control systems with a low loss header or cascade operation
- Suitable for wall mounted gas condensing boilers (4 appliances)
- Easy controller configuration by selecting one of the preset system versions
- Switching of one heating circuit with mixer
- BM-2 programming unit slots into wall mounting base and can be extended to serve as a remote control
- 0-10 V input for BMS systems; 230 V fault message output
- eBUS interface with automatic energy management
- Rast 5 connection technology



CGB-2(K) / CGW-2 / CGS-2 / CSZ-2 CONTROL ACCESSORIES

2-wire eBUS connection



Wireless outside temperature sensor
(only in conjunction with receiver for wireless outside temperature sensor and remote control, part no. 27 44 209)

Wireless receiver for wireless outside temperature sensor and wireless remote control incl. radio clock (DCF77 signal)

Wireless remote control
(only in conjunction with receiver for wireless outside temperature sensor and remote control)
Max. one wireless remote control per circuit with mixer.

AFB analogue remote control
- Simple WRS remote control for heating circuits and circuits with mixer
- Each heating circuit can be operated separately with a remote control
- Integral room temperature sensor
- Temperature and program selection via rotary selector
- Only in conjunction with BM-2 programming unit

ISM 6 LON interface module
For communication between the control unit and the building management system using LON standard network variables

ISM8i Ethernet interface module
Interface module with disclosed TCP/IP protocol for system-independent integration of WOLF heating appliances and ventilation units.

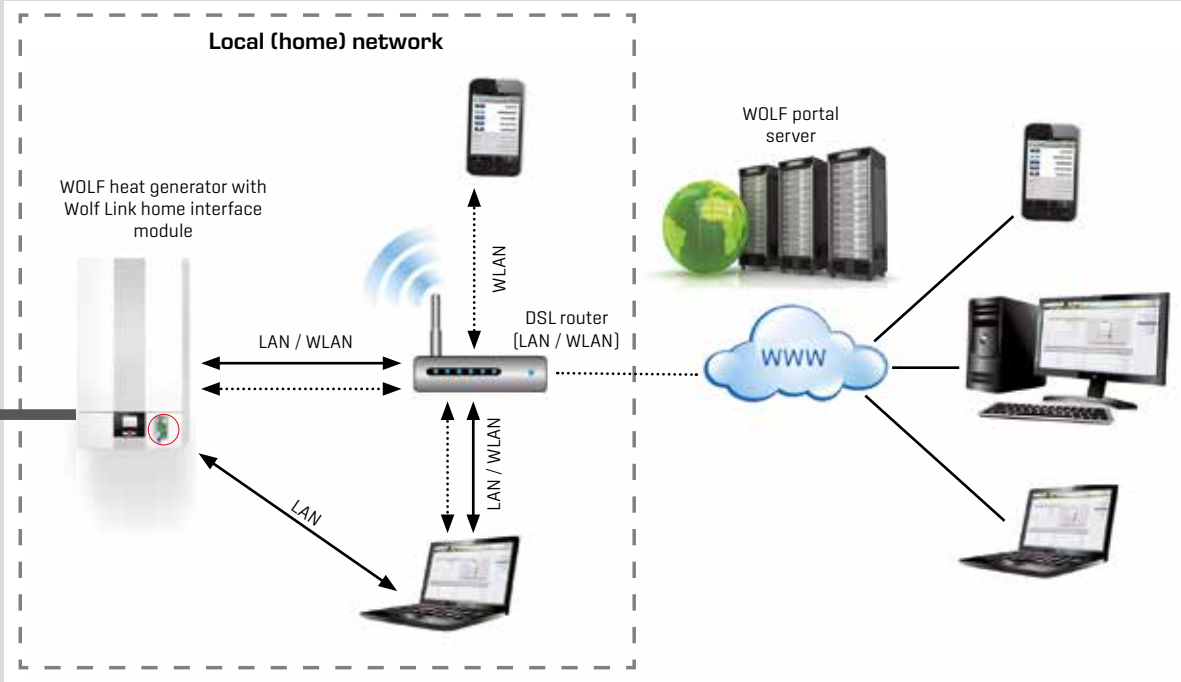
KNX interface set
Interface set for integration of WOLF heat generators into a KNX network

Comprising:
ISM8i interface module, KNX-IP-BAOS module,
installation/operating instructions, network cable

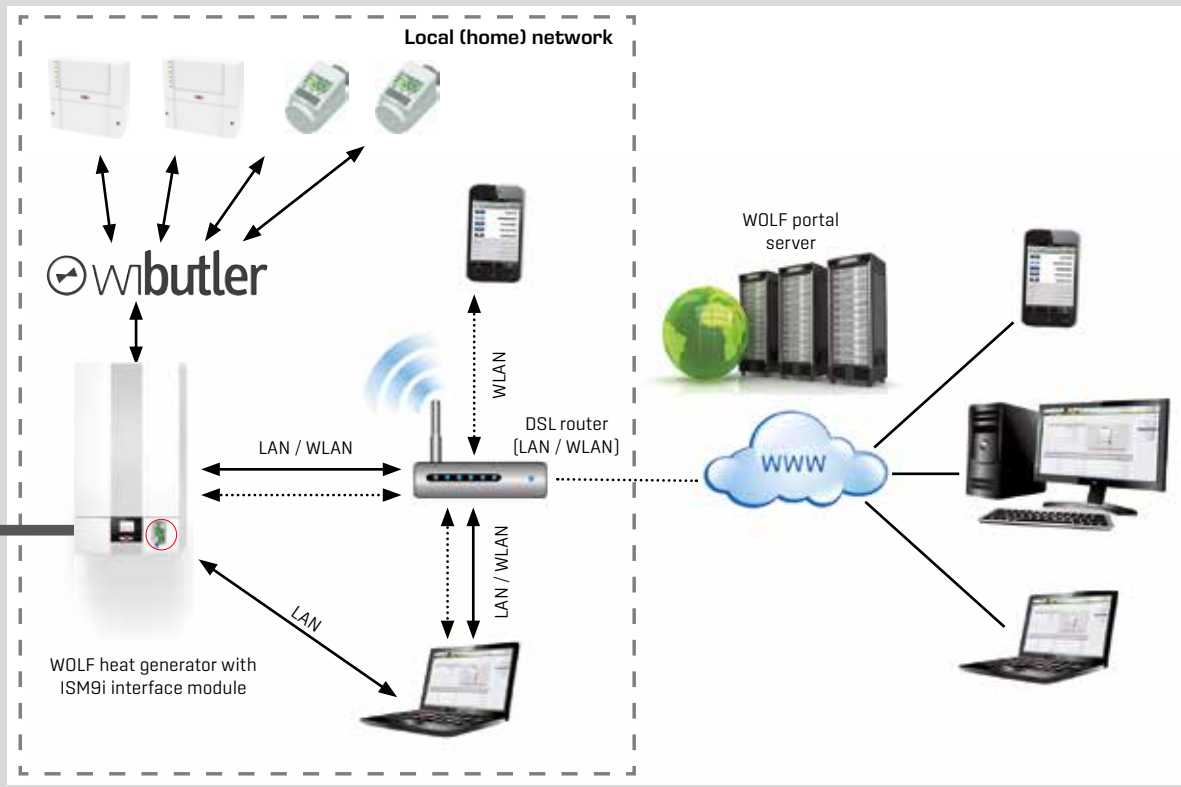
I/O module
Extension module for 2 programmable inputs and outputs

2-wire eBUS connection

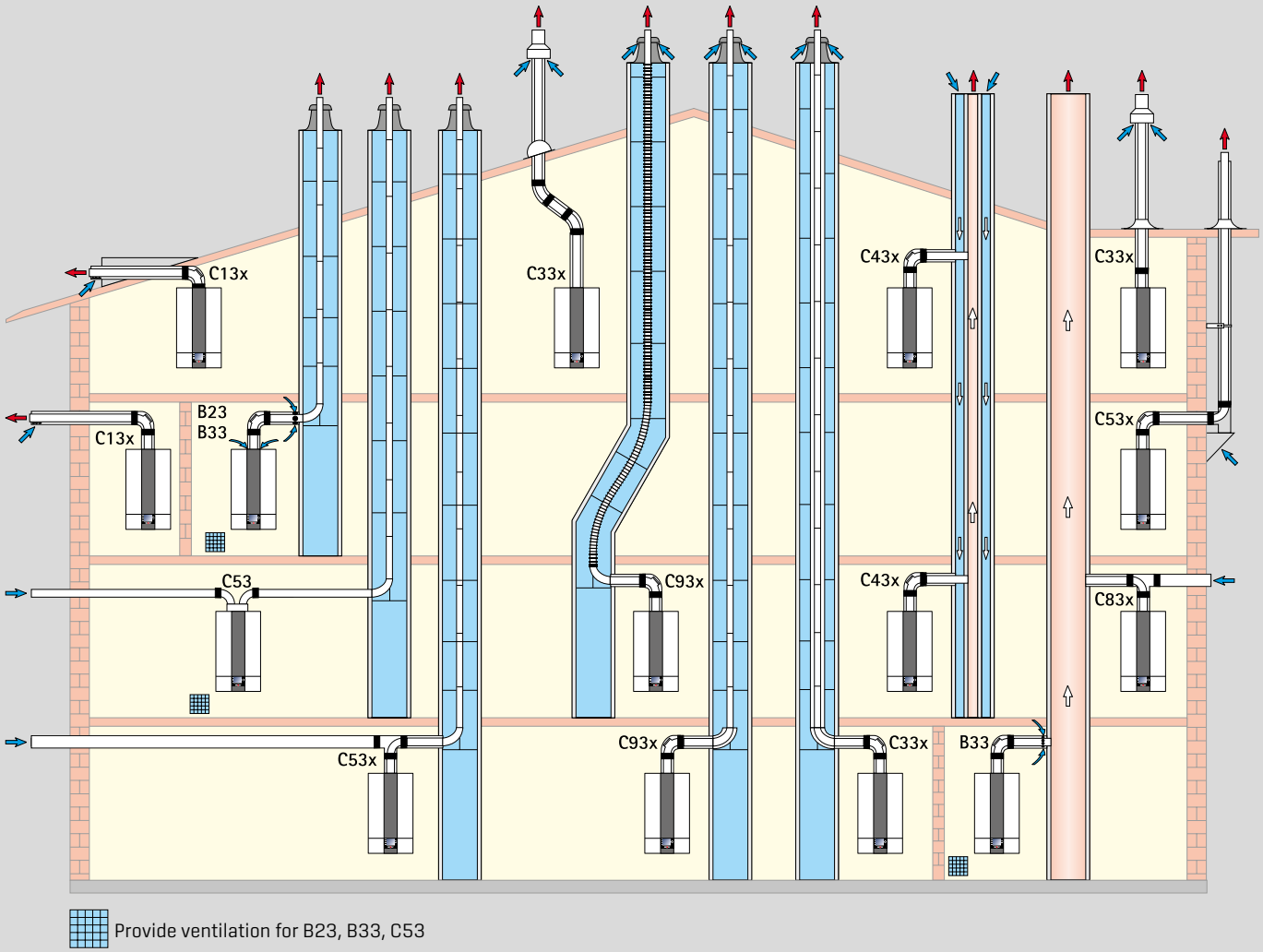
WOLF LINK HOME
LAN / WLAN interface for accessing the control unit via the internet or a local network. Operation via iOS, Android or the WOLF portal. Installation in the appliance control unit.



Wolf Link home enables WOLF heat generators to be integrated into the SmartHome system from "wibutler". In combination with the Smart Home system provider's room sensors and thermostats, the set enables demand-driven individual room temperature control via flow temperature adaptation based on the actual heat demand of the occupants and the structural conditions of the house.
At the same time, the SmartHome set enables contractors to carry out remote maintenance and diagnostics via the WOLF internet portal.



AIR/FLUE GAS ROUTING FOR WALL MOUNTED GAS CONDENSING BOILERS
CGB-2(K) / CGW-2 / CGS-2 / CSZ-2



Provide ventilation for B23, B33, C53

AIR/FLUE GAS ROUTING FOR WALL MOUNTED GAS CONDENSING BOILERS
CGB-2(K) / CGW-2 / CGS-2 / CSZ-2

Design variants			Maximum length [1] [m]		
Type			CGB-2-14 CGW-2-14 CGS-2-14 CSZ-2-14	CGB-2(K)-20 CGW-2-20 CGS-2-20 CSZ-2-20	CGB-2(K)-24 CGW-2-24 CGS-2-24 CSZ-2-24
B23	Flue pipe in a shaft and combustion air directly via the appliance (open flue)	DN 60	45	25	21
		DN 80	-	50	50
B33	Flue pipe in a shaft with horizontal concentric connection pipe (open flue)	DN 60	43	23	19
		DN 80	50	50	50
B33	Connection to a moisture-resistant flue gas chimney with a horizontal concentric connection pipe (open flue)		Calculation to EN 13384 (balanced flue chimney manufacturer)		
C13x	Horizontal roof outlet through a pitched roof (room sealed - on-site dormer)	DN 60/100	10	10	10
		DN 80/125	10	10	10
C33x	Vertical concentric roof outlet through pitched or flat roof, vertical concentric balanced flue system for installation in a shaft (room sealed)	DN 60/100	16	14	12
		DN 80/125	17	22	26
		DN 110/160	18	25	30
C43x	Connection to a moisture-resistant balanced flue chimney, maximum pipe length from centre of boiler bend to connection 2 m (room sealed)		Calculation to EN 13384 (balanced flue chimney manufacturer)		
C53	Connection to flue in a shaft and ventilation air supply through external wall (room sealed), 3 m ventilation air pipe incl.	DN 80/125	50	50	50
C53x	Connection to flue routed over an external wall, combustion air intake via external wall (room sealed)	DN 60/100	46	24	20
		DN 80/125	-	50	50
C83x	Connection to flue in a shaft and ventilation air through external wall (room sealed)	DN 80/125	50	50	50
C83x	Concentric connection to moisture-resistant flue gas chimney and combustion air through external wall (room sealed)		Calculation to EN 13384 (balanced flue chimney manufacturer)		
C93x	Flue pipe for installation in a shaft Connection pipe DN 60/100, vertical DN 60	rigid	17	17	17
		flexible	13	13	13
C93x	Flue pipe for installation in a shaft Connection pipe DN 60/100 or DN 80/125, vertical DN 80	rigid	18	21	26
		flexible	14	17	22

[1] The maximum length refers to the total length from the appliance to the flue terminal

Note: Systems C33x and C83x are also suitable for installation in garages.

The calculation was made taking the pressure conditions into account (geodetic height: 325 m).

Where necessary, adapt the installation examples to the relevant building regulations and requirements in your country/region. Any questions relating to the installation, particularly regarding the provision of inspection components and ventilation apertures (ventilation generally required above 50 kW output) should be raised with your local flue gas inspector prior to installation.

The specified lengths refer to concentric balanced flues and standard flues, and apply to original WOLF components only.

Balanced flue systems DN 60/100, DN 80/125 and DN 110/160 are certified as systems together with WOLF wall mounted gas condensing boilers.

The following balanced flues or standard flues with CE-0036-CPD-9169003 certification may be used:
- Flue DN 60, DN 80, DN 110, DN 125 and DN 160
- Concentric balanced flue DN 60/100, DN 80/125 and DN 110/160
- Concentric balanced flue (on an external wall) DN 80/125
- Flexible flue DN 60, DN 83 and DN 110

WOLF accessories are supplied with the necessary identification labels.
Please also observe the installation information supplied with the accessories.

Calculating the length of the air/flue gas routing
The calculated length of the balanced flue or standard flue is derived from the straight pipe length and the length equivalent of any pipe bends.
Example:
Length of straight balanced flue pipe = 1.5 m
87° bend = 2.0 m
2 x 45° bends = 2 x 1.2 m
L = 1.5 m + 1 x 2.0 m + 2 x 1.2 m
L = 5.9 m

Bend	Type	Calculated length [m]
30°	Single wall	0.4
45°	Single wall	0.6
87°	Single wall	1.0
30°	Concentric	0.7
45°	Concentric	1.2
87°	Concentric	2.0

COMFORTLINE **WALL MOUNTED GAS CONDENSING BOILERS**
ACCESSORIES

CGB-2 **Wall mounted gas condensing boiler for central heating with option to connect a DHW cylinder**

CGB-2K **Wall mounted gas condensing boiler for DHW and central heating**

CGW-2 **Gas condensing centre for DHW and central heating with wall mounted stainless steel stratification cylinder**

CGS-2L **Gas condensing centre for DHW and central heating with enamelled steel stratification cylinder**

CGS-2R **Gas condensing centre for DHW and central heating with enamelled steel DHW cylinder with indirect coil**

CSZ-2 **Gas condensing solar centre in modular form for DHW and central heating**

Tested in accordance with EC directives and EN 483 for heating systems according to EN 12828 with flow temperatures up to 90 °C and 3 bar permissible operating pressure. Suitable for modulating operation down to room temperature; modulating output control; gas-adaptive, self-calibrating combustion controller for extremely clean combustion and fluctuating gas qualities. Premix burner suitable for natural gas E, LL or LPG; sealed combustion chamber for open flue and room sealed operation.

Control unit with gas burner control unit, electronic ignition and ionisation flame monitor; variable speed fan.

White RAL 9016 powder-coated casing.

Accessories	CGB-2 -14 -20 -24	CGB-2 with CSW-120	CGB-2K -20 -24	CGW-2 -14/100L -20/120L -24/140L	CGS-2 -14/120L -20/160L -24/200L	CGS-2 -14/150R -20/150R -24/150R	CSZ-2 -14/300R -20/300R -24/300R
Control accessories							
AM display module	○	○	○	○	○	○	○
BM-2 programming unit	○	○	○	○	○	○	●
Wall mounting base	○	○	○	○	○	○	○
AFB analogue remote control	○	○	○	○	○	○	○
MM-2 mixer module	○	○	○	○	○	○	○
SM1-2 solar module	○	○	○	○	○	○	●
SM2-2 solar module	○	○	○	○	○	○	
KM-2 cascade module	○						
Heat meter set for capturing solar yield							○
Wireless receiver for wireless outside temperature sensor and wireless remote control incl. radio clock (DCF77 signal)	○	○	○	○	○	○	○
Wireless outside temperature sensor	○	○	○	○	○	○	○
Wireless remote control	○	○	○	○	○	○	○
WOLF Link home / pro - LAN/WLAN interface module incl. PC software	○	○	○	○	○	○	○

● Included in standard delivery
○ Optional accessory

Accessories	**CGB-2** -14 -20 -24	**CGB-2 with CSW-120**	**CGB-2K** -20 -24	**CGW-2** -14/100L -20/120L -24/140L	**CGS-2** -14/120L -20/160L -24/200L	**CGS-2** -14/150R -20/150R -24/150R	**CSZ-2** -14/300R -20/300R -24/300R
Hydraulic accessories and gas supply accessories							
Gas ball valve (angle or straight-through version), chrome plated, with thermally activated shut-off valve	○	○	○	○	○	○	●
Safety valve Rp½" up to 3 bar	○	○	○	○	○	○	●
Drain outlet kit R1" with trap and bezel, grey plastic	○	○	○	○	○	○	●
Filling device			○	○	○		
Accessories for concealed installation							
Angle maintenance valve G¾", chrome plated	○	○	○	○	○	○	
Angle maintenance valve G¾" with connection R½" for safety valve, chrome plated	○	○	○	○	○	○	
DHW connector G½", chrome plated			○	○			
Cold water connector G½", chrome plated	○		○	○			
Connection set for concealed installation	○	○	○	○	○	○	
DHW connection set with or without pressure reducer				○			
Accessories for surface mounting							
Straight-through maintenance valve Rp¾", chrome plated	○	○	○	○	○	○	
Straight-through maintenance valve Rp¾" with connection R½" for safety valve, chrome plated	○	○	○	○	○	○	
DHW connector R½", chrome plated			○	○			
Cold water connector R½", chrome plated			○	○			
Connection set for surface mounting	○	○	○	○	○	○	
Pre-assembled connection set for surface mounting					○	○	
DHW connection set with or without pressure reducer				○			

● Included in standard delivery
○ Optional accessory

COMFORTLINE **WALL MOUNTED GAS CONDENSING BOILERS**
ACCESSORIES

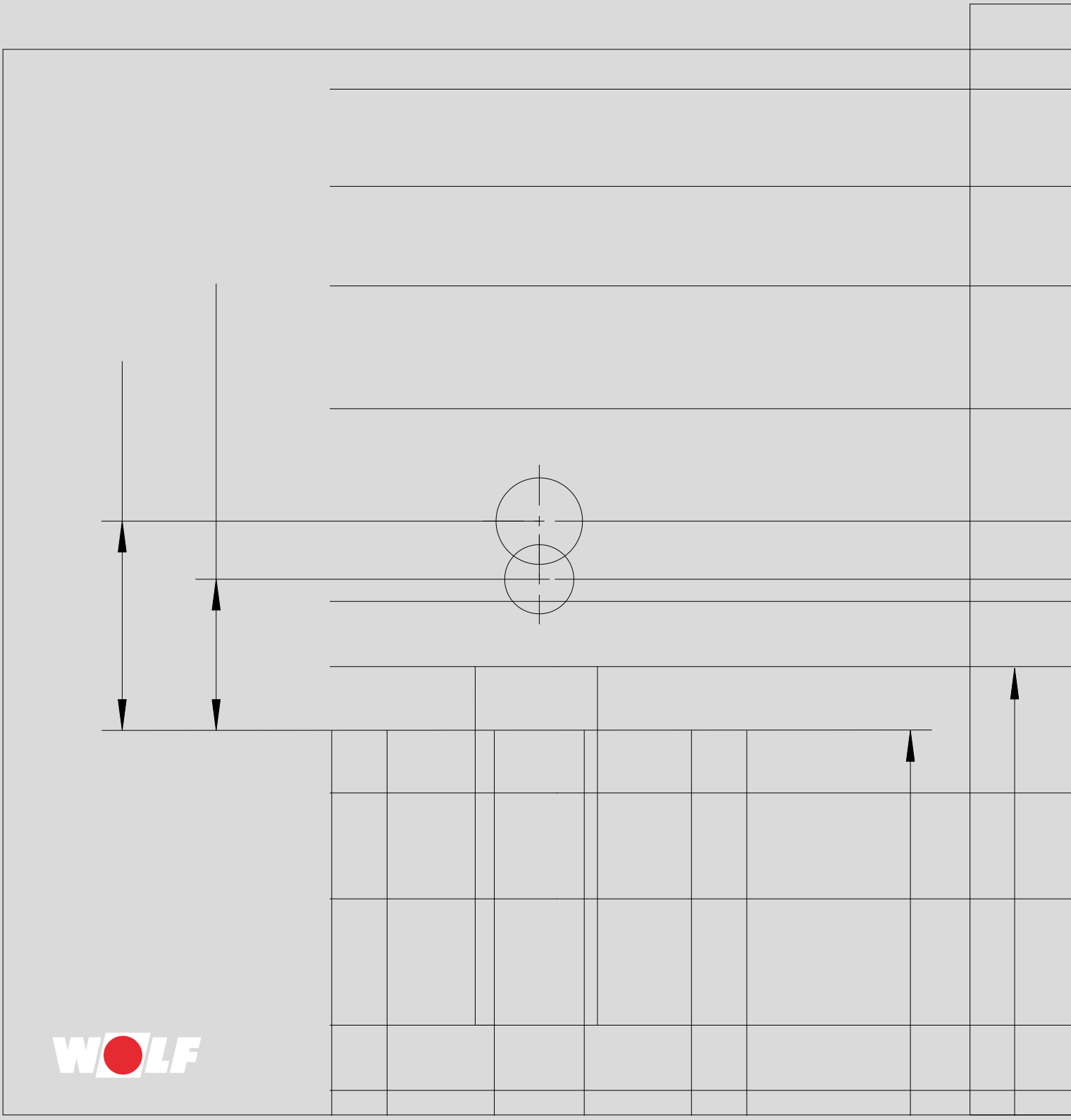
Accessories	CGB-2 -14 -20 -24	CGB-2 with CSW-120	CGB-2K -20 -24	CGW-2 -14/100L -20/120L -24/140L	CGS-2 -14/120L -20/160L -24/200L	CGS-2 -14/150R -20/150R -24/150R	CSZ-2 -14/300R -20/300R -24/300R
Accessories for connection sets							
Solar heating connection set for the additional control of a solar cylinder				○	○		
Set for solar integration			○				
Partially pre-assembled gas condensing centre pipework connection set for connection to heating flow/return, DHW/cold water, gas					○		
Flow and return connection set for heating and solar circuit and gas supply							○
DHW/cold water connection set with thermostatic water mixer and high efficiency DHW circulation pump							○
DHW circulation accessories							
High efficiency DHW circulation pump				○	○	○	○
Other accessories							
Pipe cladding	○		○	○	○		
Height-adjustable support platform for unfinished floors							○
Impressed current anode					○		○
Solar heat meter set							○
CSW-120 DHW cylinder	○						
Balanced flue accessories							
Concentric balanced flue	○	○	○	○	○	○	○
External wall system	○	○	○	○	○	○	○
Flue system connection set for flues in a shaft	○	○	○	○	○	○	○

● Included in standard delivery
○ Optional accessory

NOTES

Dealer address

WOLF GMBH / P.O. BOX 1380 / D-84048 MAINBURG / TEL. +49.0.875174-0 / FAX +49.0.875174-1600 / www.WOLF.eu



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