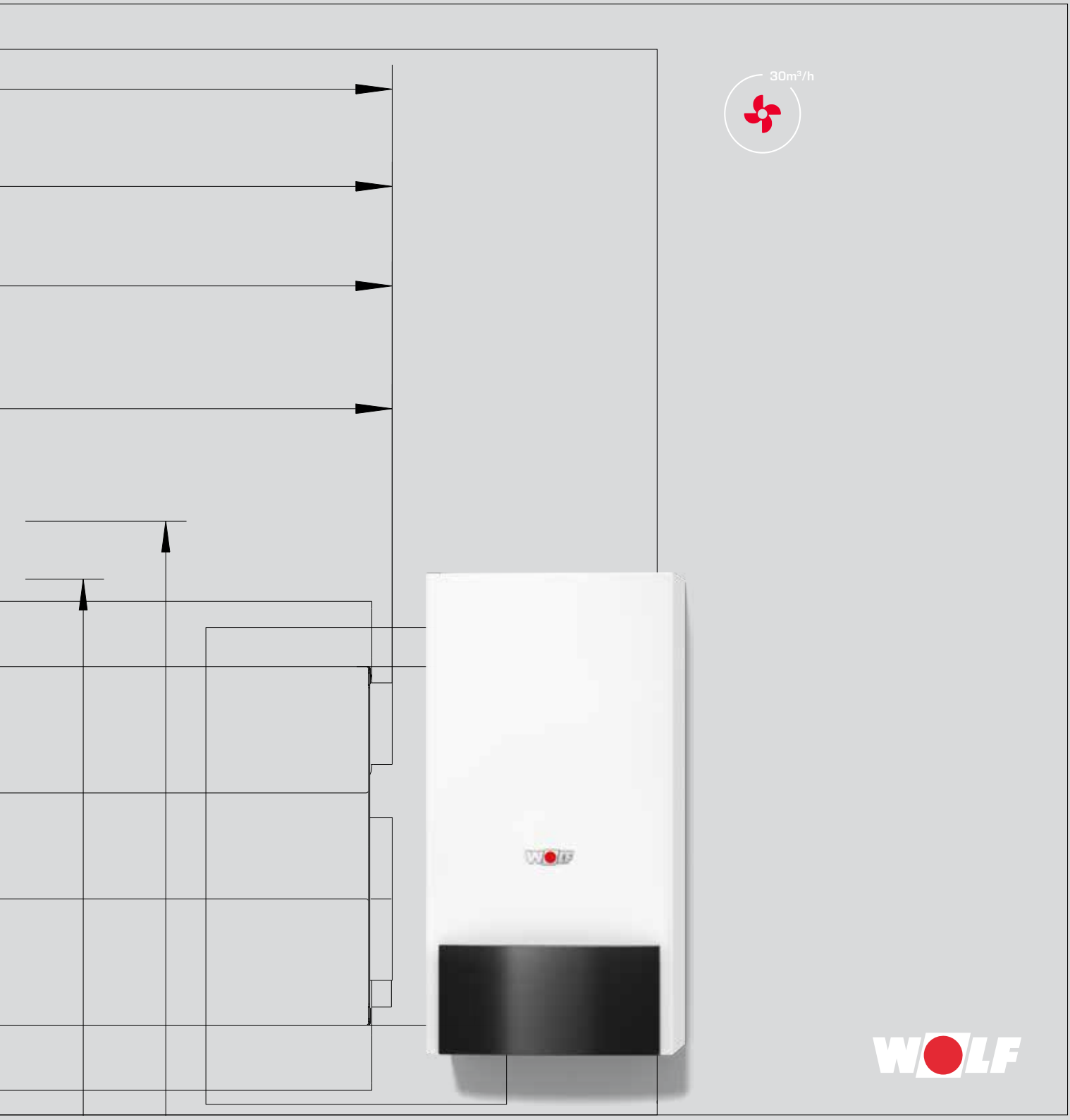
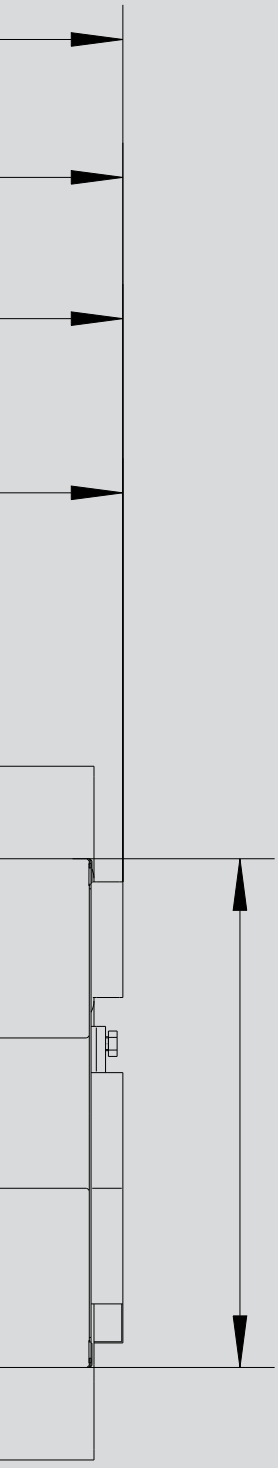
WOLF
CONVENTIONAL GAS BOILER
COMFORTLINE

CGU-2 / CGU-2K





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 technology can be swiftly integrated into existing systems.

WOLF equipment is easy and quick to install and maintain.

COMFORTLINE **CONVENTIONAL GAS BOILERS**	**CGU-2(K)**	**04-05**
APPLIANCE DESCRIPTION		**06**
SPECIFICATION		**06-07**
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CONTROL ACCESSORIES		**09-10**
ACCESSORIES		**11**

Electronic ignition and monitoring

Water-cooled,
atmospheric premix burner for
natural gas E, LL and LPG

WOLF low NOx unit with Hydro Tec system
designed for very low emissions

Control unit with eBUS capability for connection
to WOLF digital control accessories

Modulating controlled output
in heating and DHW mode

Equipped as standard with
modulating high efficiency pump (EEI <0,20),
3-way changeover valve and
10 Ltr. expansion vessel

High energy efficiency
and compact design

Straightforward installation and operation

Comfortable hot water quick start,
with CGU-2K-18/24 with high quality
stainless steel plate heat exchanger

Tested according to the applicable EC directives

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BENEFITS OF WOLF
CONVENTIONAL GAS BOILERS FROM 10 TO 24 KW

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

Emissions to NOx class 6

High standard seasonal efficiency (to DIN)
up to 94 % (net cv) / 85 % (gross cv) for best possible energy efficiency

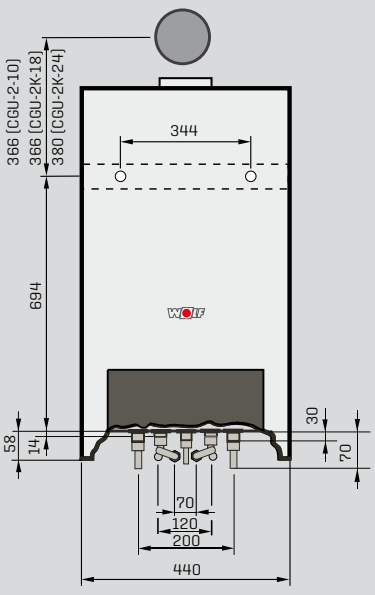
CGU-2K-18, -24 CONVENTIONAL GAS COMBI BOILER FOR CENTRAL HEATING AND DHW
CGU-2-10 CONVENTIONAL GAS BOILER FOR HEATING (NOT AVAILABLE AS COMBI BOILER)

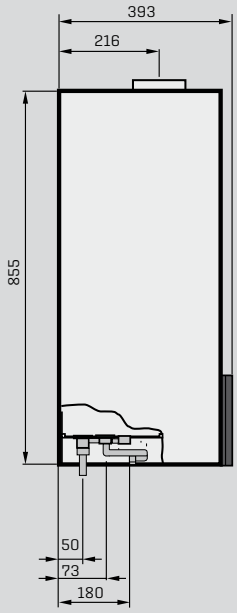
Conventional, open flue, gas combi boiler for low temperature heating and DHW provision with integral DHW heat exchanger and electronic flue gas monitoring; tested in accordance with EC directives for connection to a chimney

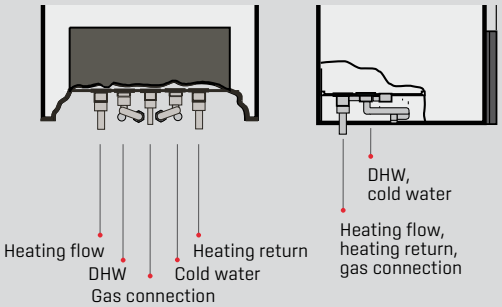
* Programming unit as accessory

This boiler with natural ventilation is intended for connection exclusively in existing buildings to a flue system that is shared by multiple apartments and that routes the combustion residues from the installation room to the outside.
Note: Type B1 units are excluded from the efficiency requirements of the ErP Directive if used with multiple occupation chimneys.
It draws the combustion air directly from the installation room and is equipped with a draught hood.
This boiler should not be used for any other purpose due to its reduced efficiency - this would lead to higher energy consumption and running costs.

CONVENTIONAL GAS COMBI BOILER
SPECIFICATION
CGU-2(K)



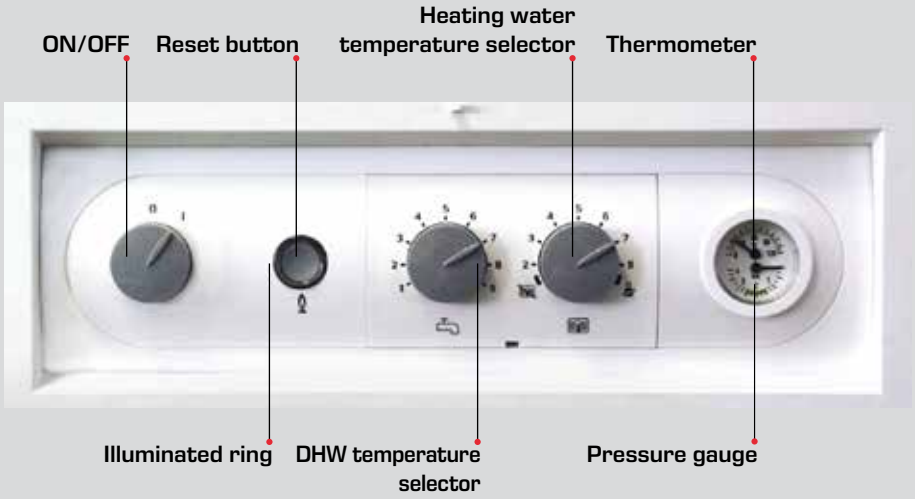




TYPE		**CGU-2-10**	**CGU-2K-18**	**CGU-2K-24**
Energy efficiency class, central heating		C	C	C
Energy efficiency class, DHW heating		-	A	A
Output range	kW	7.5-10	8-18	10.9-24
Input range	kW	8.3-11.2	8.8-20.2	12.0-26.5
Standard seasonal efficiency [to DIN] at 75/60 °C [net cv/gross cv]	%	-	94/85	92/83
Width	mm		440	
Height	mm		855	
Depth	mm		393	
Flue pipe/wall clearance	mm		226	
Flue connection Ø	mm		110	
Connection type for air/flue gas duct	Type	B_{11BS}	B_{11BS}	B_{11BS}
Gas category		II_{2ELL3P} [DE] / II_{2H3P} [AT]	II_{2ELL3P} [DE] / II_{2H3P} [AT]	II_{2ELL3P} [DE] / II_{2H3P} [AT]
Gas connection, external Ø	G		¾"	
Heating flow, external Ø	G		¾"	
Heating return, external Ø	G		¾"	
Cold water connection	G		¾"	
DHW connection	G		¾"	
Expansion vessel, nominal capacity	litres		10	
Expansion vessel pre-charge pressure	bar		0.75	
Maximum outlet temperature[2]	°C	-	55	55
At a draw-off rate of	l/min	-	2.7-5.8	2.7-7.7
Gas supply details:				
Natural gas E/H [net cv = 9.5 kWh/m³ = 34.0 MJ/ m³]	m³/h	1.3	2.1	2.8
Natural gas LL [net cv = 8.1 kWh/m³ = 29.2 MJ/ m³]	m³/h	1.5	2.3	3.1
LPG [net cv = 12.9 kWh/kg = 46.3 MJ/kg]	kg/h	0.8	1.5	2.1
Gas supply pressure:				
Natural gas	mbar	20	20	20
LPG	mbar	50	50	50
Max. overall pressure, heating	bar	-	3	3
Required draught for the heat generator	Pa	1.5	1.5	1.5
Flue gas temperature[1]	°C	84/101	80/123	80/125
Flue gas mass flow rate	g/s	12.8/13.1	12.8/13.9	15.0/19.0
Total weight	kg	39	39	41
Integral fuse [medium time lag]	A	3.15	3.15	3.15
IP rating		IPX4D	IPX4D	IPX4D
Electrical connection		230 V/50 Hz	230 V/50 Hz	230 V/50 Hz
Power consumption / standby	W	83 / 6	83 / 6	83 / 6
CE designation		CE-0085BS0516	CE-0085BS0516	CE-0085BS0516

[1] Observe when connecting to a chimney
[2] Relative to a cold water temperature of 10 °C

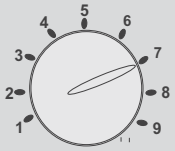
CONVENTIONAL GAS COMBI BOILER
STANDARD CONTROL UNITS
CGU-2(K)



ILLUMINATED RING FOR STATUS DISPLAY

Flashing green	Standby (power supply on; no heat demand)
Constant green light	Heat demand: pump running; burner off
Flashing yellow	Emissions test mode
Constant yellow light	Burner on; flame steady
Flashing red	Fault

SETTING



DHW TEMPERATURE SELECTOR

Settings 1-9 correspond to a cylinder temperature of 40-65 °C. If an external temperature controller is used, settings made at the DHW temperature selector have no effect; they are made at the external temperature controller.

HEATING WATER TEMPERATURE SELECTOR

Settings 2-8 correspond to a heating water temperature of 20-75 °C. If an external temperature controller is used, settings made at the heating water temperature selector have no effect; they are made at the external temperature controller.

WINTER MODE (POSITIONS 2 TO 8)

The circulation pump operates in heating mode.

SUMMER MODE

Switch is set to circulation pump off (central heating off); only DHW heating, frost protection and pump anti-seizing (where the circulation pump runs for approx. 30 s every 24 hours) are active.

EMISSIONS TEST MODE

Turning the switch to lets the appliance operate at maximum heating output. The illuminated ring flashes yellow for 15 minutes or until the maximum flow temperature has been exceeded.

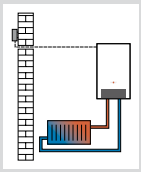
THERMOMETER/PRESSURE GAUGE

The heating water temperature and the heating system water pressure are displayed.

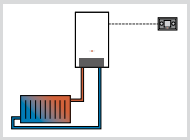
Standard control unit part of the standard delivery of the conventional gas boiler

2-wire eBus connection

BM programming unit (incl. outside sensor) as weather-compensated temperature controller

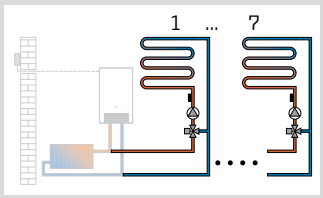


BM programming unit with wall mounting base (accessory) as remote control



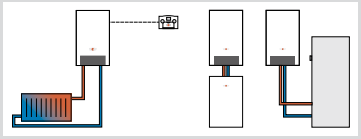
- Room temperature-dependent/weather-compensated temperature control
- Time programs for central heating and DHW heating
- Backlit LCD screen
- Simple user prompts via plain text display
- Operation by rotary selector with pushbutton function
- 4 function keys for frequently used functions (heating, DHW, setback, info)
- Installation either inside the heat generator control unit, or as a remote control in a wall mounting base
- Optional for MM mixer module
- Only one programming unit required for multi circuit systems
- Can be extended with MM mixer module (up to 7 circuits with mixer)
- Fault diagnosis

MM MIXER MODULE



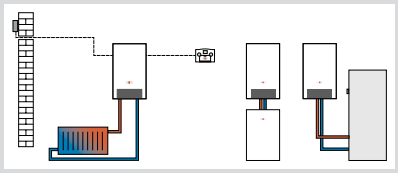
- Extension module to control one circuit with mixer
- Weather-compensated flow temperature control
- Easy controller configuration by selecting one of the preset system versions
- BM programming unit can be attached to the appliance or fitted to a wall mounting base for use as a remote control
- Rast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

ART



- Analogue room temperature controller with day program for central heating and DHW
- Room temperature-dependent flow temperature
- Display for showing the room temperature, time and fault messages
- Room temperature-dependent frost protection

AWT



- Analogue weather-compensated temperature controller with day program for central heating and DHW
- Weather-compensated flow temperature
- Display for showing the room temperature, outside temperature, time and fault messages
- Room temperature hook-up
- Frost protection function
- Automatic energy saving appliance

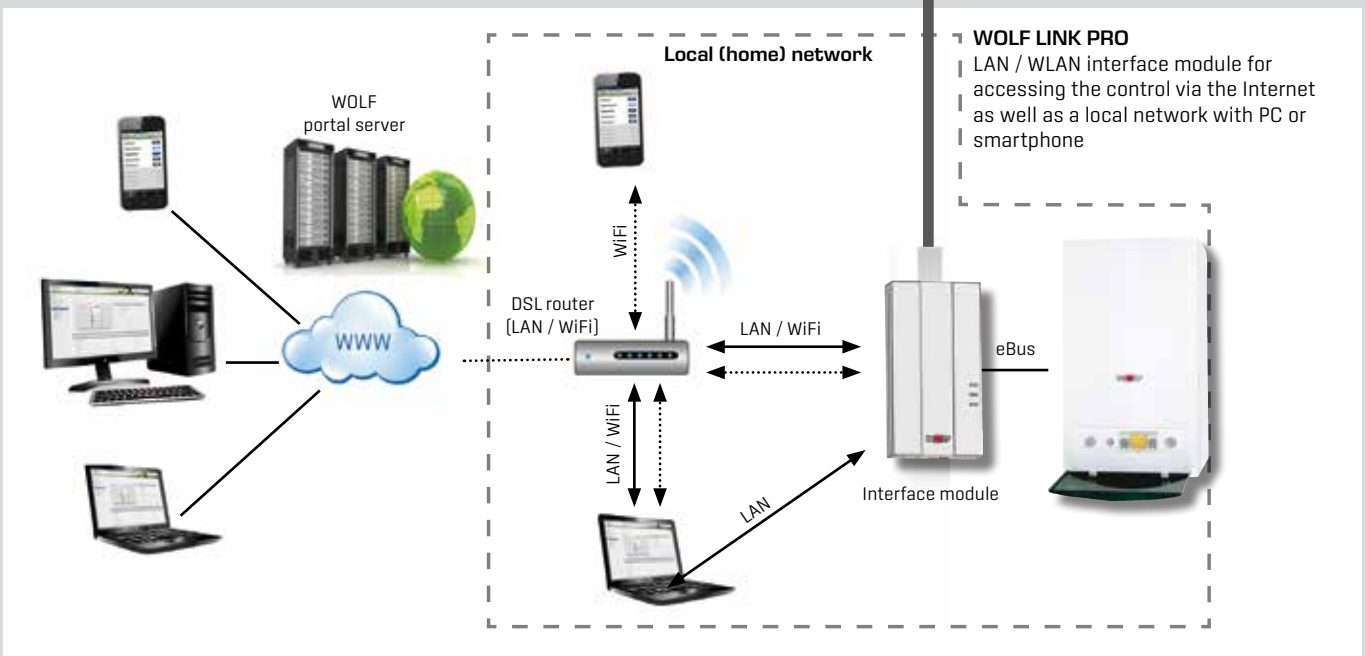
CONVENTIONAL GAS COMBI BOILER
CONTROL ACCESSORIES
CGU-2(K)

2-wire eBus connection

EXTERNAL WIRELESS SENSOR
(only in conjunction with receiver for external wireless sensor and remote control, part no. 27 44 209)

WIRELESS RECEIVER
for external wireless sensor and wireless remote control incl. radio clock (DCF77 signal)

WIRELESS REMOTE CONTROL
(only in conjunction with receiver for external wireless sensor and remote control). Max. one wireless remote control per circuit with mixer.



WOLF LINK PRO
LAN / WLAN interface module for accessing the control via the Internet as well as a local network with PC or smartphone

CGU-2 **Conventional gas boiler for central heating with option to connect a DHW cylinder**

CGU-2K **Conventional gas boiler for central heating and DHW heating**

Tested in accordance with EC directives and EN 297, 483 and 625, and for heating systems according to EN 1282 with flow temperatures up to 95 °C and 3 bar permissible operating pressure. Suitable for modulating operation down to room temperature; modulating output control. Flue gas monitoring with CGU-2K. Premix burner equipped and adjusted at the factory for natural gas E and LL. When ordering for LPG a conversion set is enclosed (loose). CGU-2K for chimney connection for open flue operation.

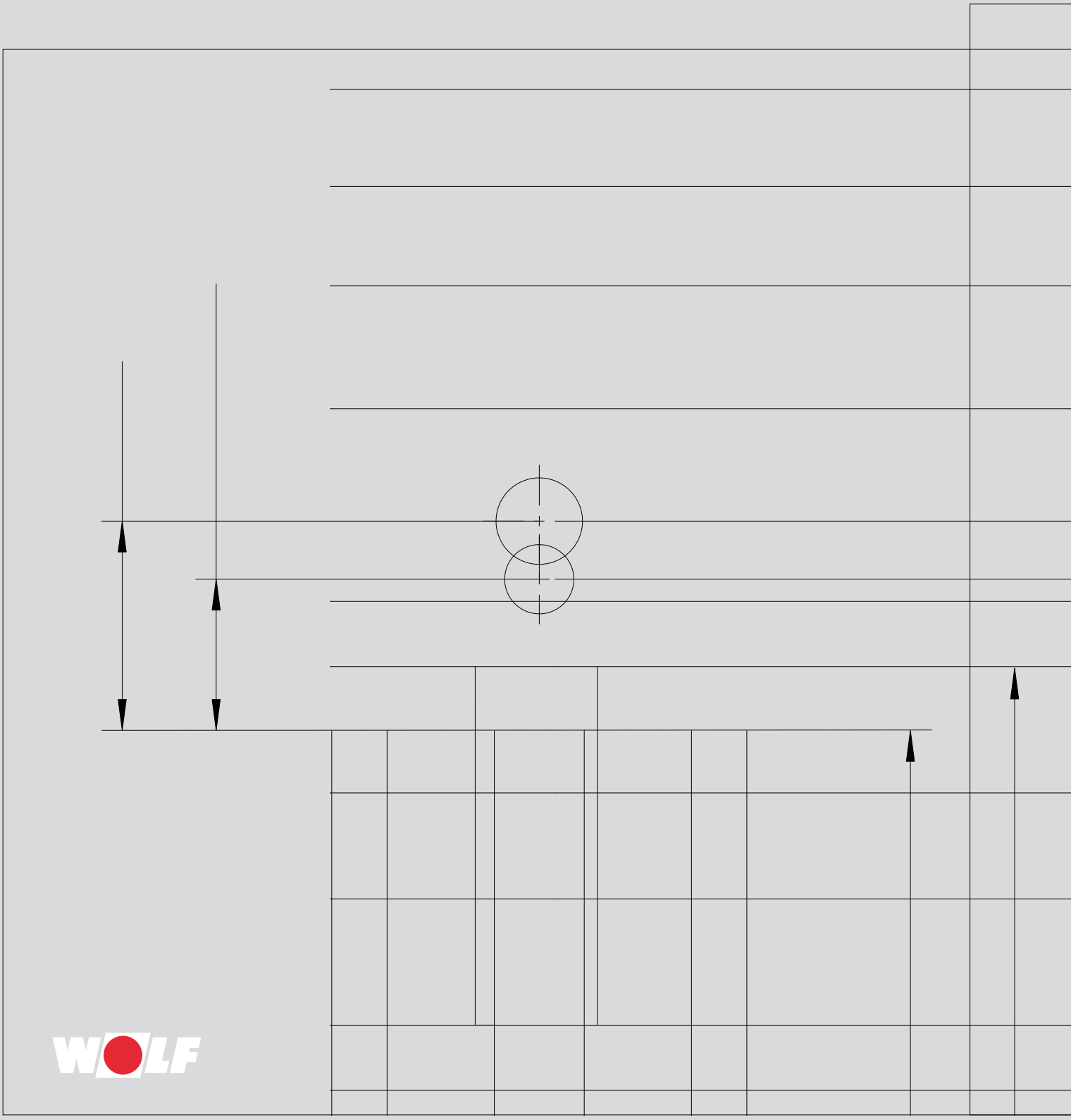
Control unit with gas burner control unit, electronic ignition and ionisation flame monitor.

White RAL 9016 powder-coated casing.

Accessories	CGU-2(K)
Control accessories	
BM programming unit	●
Wall mounting base	●
MM mixer module	●
ART analogue room temperature-dependent controller with day program	●
AWT analogue weather-compensated controller	●
Wireless receiver - required for external wireless sensor and wireless remote control	●
WRS remote maintenance system	●
Hydraulic accessories and gas supply accessories	
Gas ball valve (angle or straight-through version), chrome plated, with or without thermally activated shut-off device	●
Drain set, safety valve with hose, hose retainer, trap and pipe collar, transparent plastic	●
Accessories for flush mounting	
Concealed mounting bracket for installation on unfinished walls	●
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	●
Accessories for surface mounting	
Connection set for installation on finished walls	●
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" with shut-off valve, chrome plated	●
Surface mounting bracket for installation on finished walls	●
Air and flue gas accessories	
Aluminium flue pipe Ø 110 mm	●
Aluminium flue pipe Ø 130 mm	●

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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