



Gas-combi boiler CGG-1K

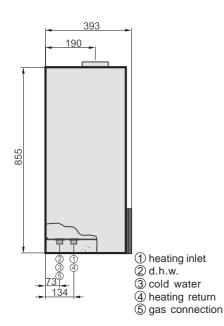


- room sealed fannned flue model gas combi boiler for low temperature heating and d.h.w. preparation with integrated d.h.w. heat exchanger made of stainless steel
- · certified according to the valid EG-guidelines
- adequate for flow temperature up to 90°C, maximal permitted operation overpressure heating 3 bar and d.h.w. 10 bar, for sliding lowered operation, performance controlled in modulation, factory made equipped for operation with natural gas H, gas conversion kit for B/P accessory
- eBus-capable control for connection of digital Wolf control accessory
- with electrical ignition and ionisational flame monitoring and integrated flue gas fan, combustion air monitoring by differential pressure motor
- serially with 3-step heating circuit pump, expansion vessel 8 I and safety vessel
- unit for connection to air / flue gas pipe system, chimney or rather air / flue gas chimney of types C12x, C32x, C42x, C52x, and B32 in an open flue model or rather room selaed fanned flue operating method
- · casing white RAL 9016 powder-coated, control with plastic cap in black
- energy efficiency according to efficiency guideline ☆☆☆ (3 stars according to 92/ 42/EWG)
- emissions according to NOx- class 3



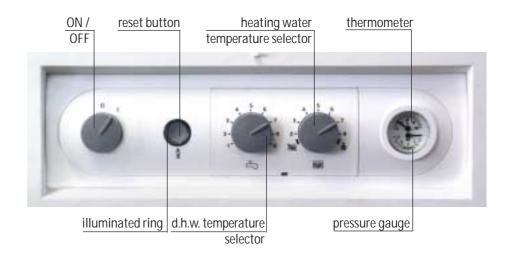
258 694 P270/12

Technical data



Rated output Rated thermal load	Туре		CGG-1K-24	CGG-1K-28
Lowest output (modulating) kW 9,4 10,9	Rated output	kW	24	28
Lowest thermal load (modulating) kW 10,4 12,0 Heating flow G 34" 34" Heating return G 34" 34" Heating return G 34" 34" DHW connection G 34" 34" Cold water connection R 34" 34" Gas connection R 34" 34" Air/ flue gas connection R 34" 34" Air/ flue gas connection mm 100/60 100/60 Gas supply details: Natural gas H (HI = 9,5 kWh//kg = 46,3 MJ/kg) kg/h 2,1 2,4 Gas supply pressure: Natural gas H mbar 20 20 Elow temperature Natural gas H mbar 50 50 Flow temperature C 40-90 40-90 Heating water temperature range (pre-selected) C 40-80 40-80 Max. overall pressure, heating bar 3 3 Heating water heat exchanger content Ltr. 0,5 0,5 Residual pump head/ stage 1/2/3 Rated output (Δt = 20 K) mbar -/220 / 320 -/120 / 210 Specific throughput D to Δt = 30K I/min 11,5 14,4 DHW throughput (version IT, ES) I/min 2-8 (12) 2-8 (12) Minimum flow pressure/ min. flow pressure toEN 625 bar 0,2 / 0,9 0,2 / 0,9 Max. permissible overall pressure bar 10 10 DHW temperature range C 40-60 40-60 Expansion vessel: Total capacity I 8 8 8 8 Inlet pressure bar 0,75 0,75 Flue gas volume flow Total capacity I 8 8 8 8 Inlet pressure bar 0,75 0,75 Flue gas temperature C 125-165 125-165 Required boiler draugth Pa 0 0 0 Flue gas category to DVGW G 635 Up ₂ Up ₂ Up ₂ Electrical connection V-/Hz 230/50 230/50 Integral fuse A 3,15 3,15 Power consumption W 120 120 Total weight (dry) Kg 40 42	Rated thermal load	kW	26,7	31,1
Heating flow	Lowest output (modulating)	kW	9,4	10,9
Heating return □ G	Lowest thermal load (modulating)	kW	10,4	12,0
DHW connection G ¾4" ¾4" Cold water connection G ¾4" ¾4" Gas connection R ¾4" ¾4" Air/ flue gas connection mm 100/60 100/60 Gas supply details: mm 100/60 100/60 Gas supply details: Natural gas H (Hi = 9,5 kWh/m³ = 34,02 MJ/m³) m³/h 2,8 3,3 LPG B/P kg/h 2,1 2,4 Gas supply pressure: Natural gas H mbar LPG B/P 20 20 Flow temperature nbar PB/P 50 50 Flow temperature range (pre-selected) °C 40-90 40-90 Heating water temperature range (pre-selected) °C 40-80 40-80 Max. overall pressure, heating bar 3 3 Heating water temperature range (pre-selected) °C 40-80 40-80 Max. overall pressure, heating bar 3 3 3 Heating water temperature range (pre-selected) °C 40-80 40-80 Mbax. overall pressure (pre-sele	Heating flow	G	3/4"	3/4"
Cold water connection G ¾" ¾" Gas connection R ¾" ¾" Air/ flue gas connection mm 100/60 100/60 Gas supply details: natural gas H (Hi = 9,5 kWh/m³ = 34,02 MJ/m³) m³/h 2,8 3,3 LPG B/P (Hi = 12,9 kWh/kg = 46,3 MJ/kg) kg/h 2,1 2,4 Gas supply pressure: Natural gas H mbar 20 20 LPG B/P mbar 50 50 Flow temperature °C 40-90 40-90 Heating water temperature range (pre-selected) °C 40-80 40-80 Max. overall pressure, heating bar 3 3 3 Heating water heat exchanger content Ltr. 0,5 0,5 0,5 Residual pump head/ stage 1/2/3 matering water heat exchanger content Ltr. 0,5 0,5 0,5 Specific throughput (Δt = 20 K) mbar - / 220 / 320 - / 120 / 210 10 1,4 Specific throughput (version IT, ES) l/min 1,5 14,4	Heating return	G	3/4"	3/4"
Gas connection R Air/ flue gas connection 34" mm 34" 100/60 Gas supply details: Natural gas H (Hi = 9,5 kWh/m³ = 34,02 MJ/m³) m³/h 2,8 3,3 LPG B/P (Hi = 12,9 kWh/kg = 46,3 MJ/kg) kg/h 2,1 2,4 2,4 Gas supply pressure: Natural gas H mbar 20 20 20 20 LPG B/P mbar 50 50 Flow temperature °C 40-90 40-90 40-90 40-80 40-80 Max. overall pressure, heating a bar 4 3 3 3 3 40-80 40-80 Max overall pressure, heating bar 4 3 3 3 3 40-80 40-80 Max overall pressure, heating bar 4 3 40-80 Max overall pressure total t	DHW connection	G	3/4"	3/4"
Air/ flue gas connection mm 100/60 100/60 Gas supply details: Natural gas H (Hi = 9,5 kWh/m³ = 34,02 MJ/m³) m³/h 2,8 3,3 LPG B/P (Hi = 12,9 kWh/kg = 46,3 MJ/kg) kg/h 2,1 2,4 Gas supply pressure: Natural gas H mbar 20 20 LPG B/P mbar 50 50 Flow temperature °C 40-90 40-90 Heating water temperature range (pre-selected) °C 40-90 40-90 Heating water heat exchanger content Ltr. 0,5 0,5 Residual pump head/ stage 1/2/3 mbar - / 220 / 320 - / 120 / 210 Specific throughput (\Delta t = 20 K) mbar - / 220 / 320 - / 120 / 210 Specific throughput (version IT, ES) I/min 11,5 14,4 DHW throughput (version IT, ES) I/min 2-8 (12) 2-8 (12) Max. permissible overall pressure bar 0,2 / 0,9 0,2 / 0,9 Max. permissible overall pressure bar 10 10 DHW temperature range °C	Cold water connection	G	3/4"	3/4"
Gas supply details: Natural gas H (Hi = 9,5 kWh/m³ = 34,02 MJ/m³) m³/h 2,8 3,3 LPG B/P (Hi = 12,9 kWh/kg = 46,3 MJ/kg) kg/h 2,1 2,4 Gas supply pressure: Natural gas H mbar 20 20 LPG B/P mbar 50 50 Flow temperature °C 40-90 40-90 Heating water temperature range (pre-selected) °C 40-80 40-80 Max. overall pressure, heating bar 3 3 Heating water heat exchanger content Ltr. 0,5 0,5 Residual pump head/ stage 1/2/3 mbar - / 220 / 320 - / 120 / 210 Specific throughput (Δt = 20 K) mbar - / 220 / 320 - / 120 / 210 Specific throughput (version IT, ES) I/min 11,5 14,4 DHW throughput (version IT, ES) I/min 2-8 (12) 2-8 (12) Max. permissible overall pressure bar 0,2 / 0,9 0,2 / 0,9 Max. permissible overall pressure bar 0,75 0,75 Elue gas volume flow ¹¹ g/s<	Gas connection	R	3/4"	3/4"
Natural gas H (Hi = 9,5 kWh/m³ = 34,02 MJ/m³) m³/h	Air/ flue gas connection	mm	100/60	100/60
LPG B/P (Hi = 12,9 kWh/kg = 46,3 MJ/kg) kg/h 2,1 2,4 Gas supply pressure: Natural gas H mbar 20 20 Flow temperature °C 40-90 40-90 Heating water temperature range (pre-selected) °C 40-80 40-80 Max. overall pressure, heating bar 3 3 Heating water heat exchanger content Ltr. 0,5 0,5 Residual pump head/ stage 1/2/3 mbar - / 220 / 320 - / 120 / 210 Specific throughput (Δt = 20 K) mbar - / 220 / 320 - / 120 / 210 Specific throughput (version IT, ES) l/min 11,5 14,4 DHW throughput (version IT, ES) l/min 2-8 (12) 2-8 (12) Max. permissible overall pressure bar 0,2 / 0,9 0,2 / 0,9 Max. permissible overall pressure bar 10 10 DHW temperature range °C 40-60 40-60 Expansion vessel: Total capacity I 8 8 Flue gas volume flow ¹¹) °C 125-165 </td <td>Gas supply details:</td> <td></td> <td></td> <td></td>	Gas supply details:			
Gas supply pressure: Natural gas H LPG B/P mbar mbar mbar 20 50 Flow temperature °C 40-90 40-90 Heating water temperature range (pre-selected) °C 40-80 40-80 Max. overall pressure, heating bar 3 3 3 Heating water heat exchanger content Ltr. 0,5 0,5 Residual pump head/ stage 1/2/3 Rated output (Δt = 20 K) mbar -/220 / 320 -/120 / 210 Specific throughput D to Δt = 30K I/min 11,5 14,4 DHW throughput (version IT, ES) I/min 2-8 (12) 2-8 (12) Minimum flow pressure/ min. flow pressure toEN 625 bar 0,2 / 0,9 0,2 / 0,9 0,2 / 0,9 Max. permissible overall pressure bar 10 10 10 DHW temperature range °C 40-60 40-60 40-60 Expansion vessel: Total capacity I I 8 8 Inlet pressure bar 0,75 0,75 0,75 Flue gas volume flow ¹⁾ °C 125-165 125-165 125-165 Required boiler draugth Pa 0 0 0 0 Integr	Natural gas H (Hi = $9.5 \text{ kWh/m}^3 = 34.02 \text{ MJ/m}^3$)	m³/h	2,8	3,3
LPG B/P mbar 50 50 Flow temperature °C 40-90 40-90 Heating water temperature range (pre-selected) °C 40-80 40-80 Max. overall pressure, heating bar 3 3 Heating water heat exchanger content Ltr. 0,5 0,5 Residual pump head/ stage 1/2/3 Testion of the content of the c	LPG B/P (Hi = $12.9 \text{ kWh/kg} = 46.3 \text{ MJ/kg}$)	kg/h	2,1	2,4
Flow temperature	Gas supply pressure: Natural gas H	mbar	20	20
Heating water temperature range (pre-selected) Max. overall pressure, heating Heating water heat exchanger content Residual pump head/ stage 1/2/3 Rated output (\Delta t = 20 K) Specific throughput D to \Delta t = 30K DHW throughput (version IT, ES) Minimum flow pressure/ min. flow pressure toEN 625 Bar DHW temperature range C 40-60 Expansion vessel: Total capacity Inlet pressure bar Inlet pressure bar O,75 Flue gas volume flow Inlet gas category to DVGW G 635 Electrical connection V~/Hz Posser Power consumption Value Residual pressure, heating Bar 3 40-80 40-80 40-80 40-80 Flue July 11,5 14,4 11,5 14,4 11,5 14,4 11,5 14,4 11,5 14,4 11,5 14,4 10,2 10 10 10 10 10 10 10 10 10 1	LPG B/P	mbar	50	50
Max. overall pressure, heatingbar33Heating water heat exchanger contentLtr.0,50,5Residual pump head/ stage 1/2/3 Rated output (Δt = 20 K)mbar- / 220 / 320- / 120 / 210Specific throughput D to Δt = 30KI/min11,514,4DHW throughput (version IT, ES)I/min2-8 (12)2-8 (12)Minimum flow pressure/ min. flow pressure toEN 625bar0,2 / 0,90,2 / 0,9Max. permissible overall pressurebar1010DHW temperature range°C40-6040-60Expansion vessel:Total capacity Inlet pressureI88Flue gas volume flow 10g/s13,8 / 14,917,2 / 18,2Flue gas temperature 10°C125-165125-165Required boiler draugthPa00Flue gas category to DVGW G 635Uo2Uo2Electrical connectionV~/Hz230/50230/50Integral fuse A3,153,15Power consumptionW120120ProtectionIPX 4DIPX 4DTotal weight (dry)kg4042	Flow temperature	°C	40-90	40-90
Heating water heat exchanger content Residual pump head/ stage 1/2/3 Rated output (\(\Delta\text{t} = 20\text{ K}\) Specific throughput D to \(\Delta\text{t} = 30\text{K}\) I/min DHW throughput (version IT, ES) I/min DHW temperature range Inlet pressure Inlet pressure Inlet gas volume flow Flue gas temperature Inlet gas category to DVGW G 635 Electrical connection IV=IVE Residual pump head/ stage 1/2/3 Rated output (\(\Delta\text{t} = 20\text{ K}\) Rbar I/min I1,5 I4,4 IV I/min I1,5 I4,4 IV I/min I1,5 I4,4 IV I/min I1,5 I4,4 IV	Heating water temperature range (pre-selected)	$^{\circ}\mathrm{C}$	40-80	40-80
Residual pump head/ stage 1/2/3 Rated output (Δt = 20 K) mbar - / 220 / 320 - / 120 / 210 Specific throughput D to Δt = 30K I/min 11,5 14,4 DHW throughput (version IT, ES) I/min 2-8 (12) 2-8 (12) Minimum flow pressure/ min. flow pressure toEN 625 bar 0,2 / 0,9 0,2 / 0,9 Max. permissible overall pressure bar 10 10 DHW temperature range °C 40-60 40-60 Expansion vessel: Total capacity I 8 8 Inlet pressure bar 0,75 0,75 Flue gas volume flow ¹¹ g/s 13,8 / 14,9 17,2 / 18,2 Flue gas temperature ¹¹ °C 125-165 125-165 Required boiler draugth Pa 0 0 0 Flue gas category to DVGW G 635 U ₀₂ U ₀₂ U ₀₂ Electrical connection V~/Hz 230/50 230/50 Integral fuse A 3,15 3,15 Power consumption IPX 4D IPX 4D Tot	Max. overall pressure, heating	bar	3	3
Rated output (Δt = 20 K) mbar - / 220 / 320 - / 120 / 210 Specific throughput D to Δt = 30K I/min 11,5 14,4 DHW throughput (version IT, ES) I/min 2-8 (12) 2-8 (12) Minimum flow pressure/ min. flow pressure toEN 625 bar 0,2 / 0,9 0,2 / 0,9 Max. permissible overall pressure bar 10 10 DHW temperature range °C 40-60 40-60 Expansion vessel: Total capacity I 8 8 Inlet pressure bar 0,75 0,75 Flue gas volume flow ¹⁾ g/s 13,8 / 14,9 17,2 / 18,2 Flue gas temperature ¹⁾ °C 125-165 125-165 Required boiler draugth Pa 0 0 Flue gas category to DVGW G 635 U ₀₂ U ₀₂ Electrical connection V~/Hz 230/50 230/50 Integral fuse A 3,15 3,15 Power consumption W 120 120 Protection IPX 4D IPX 4D </td <td>Heating water heat exchanger content</td> <td>Ltr.</td> <td>0,5</td> <td>0,5</td>	Heating water heat exchanger content	Ltr.	0,5	0,5
Specific throughput D to $\Delta t = 30K$ I/min11,514,4DHW throughput (version IT, ES)I/min2-8 (12)2-8 (12)Minimum flow pressure/ min. flow pressure toEN 625bar0,2 / 0,90,2 / 0,9Max. permissible overall pressurebar1010DHW temperature range°C40-6040-60Expansion vessel:Total capacityI88Inlet pressurebar0,750,75Flue gas volume flow $^{1)}$ g/s13,8 / 14,917,2 / 18,2Flue gas temperature $^{1)}$ °C125-165125-165Required boiler draugthPa00Flue gas category to DVGW G 635U $_{02}$ U $_{02}$ Electrical connectionV~/Hz230/50230/50Integral fuse A3,153,15Power consumptionW120120ProtectionIPX 4DIPX 4DTotal weight (dry)kg4042	Residual pump head/ stage 1/2/3			
DHW throughput (version IT, ES) I/min 2-8 (12) 2-8 (12) Minimum flow pressure/ min. flow pressure toEN 625 bar 0,2 / 0,9 0,2 / 0,9 Max. permissible overall pressure bar 10 10 DHW temperature range °C 40-60 40-60 Expansion vessel: Total capacity I 8 8 Inlet pressure bar 0,75 0,75 Flue gas volume flow ¹¹ g/s 13,8 / 14,9 17,2 / 18,2 Flue gas temperature ¹¹ °C 125-165 125-165 Required boiler draugth Pa 0 0 Flue gas category to DVGW G 635 U ₀₂ U ₀₂ Electrical connection V~/Hz 230/50 230/50 Integral fuse A 3,15 3,15 Power consumption W 120 120 Protection IPX 4D IPX 4D Total weight (dry) kg 40 42	Rated output ($\Delta t = 20 \text{ K}$)	mbar	- / 220 / 320	- / 120 / 210
Minimum flow pressure/ min. flow pressure toEN 625 bar 0,2 / 0,9 0,2 / 0,9 Max. permissible overall pressure bar 10 10 DHW temperature range °C 40-60 40-60 Expansion vessel: Total capacity I 8 8 Inlet pressure bar 0,75 0,75 Flue gas volume flow ¹¹ g/s 13,8 / 14,9 17,2 / 18,2 Flue gas temperature ¹¹ °C 125-165 125-165 Required boiler draugth Pa 0 0 Flue gas category to DVGW G 635 U ₀₂ U ₀₂ Electrical connection V~/Hz 230/50 230/50 Integral fuse A 3,15 3,15 Power consumption W 120 120 Protection IPX 4D IPX 4D Total weight (dry) kg 40 42	Specific throughput D to $\Delta t = 30K$	l/min	11,5	14,4
Max. permissible overall pressure bar 10 10 DHW temperature range °C 40-60 40-60 Expansion vessel: Total capacity Inlet pressure I 8 8 Inlet pressure bar 0,75 0,75 Flue gas volume flow 1) g/s 13,8 / 14,9 17,2 / 18,2 Flue gas temperature 1) °C 125-165 125-165 Required boiler draugth Pa 0 0 Flue gas category to DVGW G 635 U ₀₂ U ₀₂ Electrical connection V~/Hz 230/50 230/50 Integral fuse A 3,15 3,15 3,15 Power consumption W 120 120 Protection IPX 4D IPX 4D Total weight (dry) kg 40 42	DHW throughput (version IT, ES)	l/min	2-8 (12)	2-8 (12)
Max. permissible overall pressure bar 10 10 DHW temperature range °C 40-60 40-60 Expansion vessel: Total capacity Inlet pressure I 8 8 Inlet pressure bar 0,75 0,75 Flue gas volume flow 1) g/s 13,8 / 14,9 17,2 / 18,2 Flue gas temperature 1) °C 125-165 125-165 Required boiler draugth Pa 0 0 Flue gas category to DVGW G 635 U ₀₂ U ₀₂ Electrical connection V~/Hz 230/50 230/50 Integral fuse A 3,15 3,15 3,15 Power consumption W 120 120 Protection IPX 4D IPX 4D Total weight (dry) kg 40 42	Minimum flow pressure/ min. flow pressure toEN 625	bar	0.2 / 0.9	0.2 / 0.9
DHW temperature range °C 40-60 40-60 Expansion vessel: Total capacity Inlet pressure I 8 8 Inlet pressure bar 0,75 0,75 Flue gas volume flow 10 g/s 13,8 / 14,9 17,2 / 18,2 Flue gas temperature 10 °C 125-165 125-165 Required boiler draugth Pa 0 0 Flue gas category to DVGW G 635 U ₀₂ U ₀₂ Electrical connection V~/Hz 230/50 230/50 Integral fuse A 3,15 3,15 Power consumption W 120 120 Protection IPX 4D IPX 4D Total weight (dry) kg 40 42		bar		
Expansion vessel: Total capacity Inlet pressure I 8 8 Flue gas volume flow 10 g/s 13,8 / 14,9 17,2 / 18,2 Flue gas temperature 10 °C 125-165 125-165 Required boiler draugth Pa 0 0 Flue gas category to DVGW G 635 U ₀₂ U ₀₂ Electrical connection V~/Hz 230/50 230/50 Integral fuse A 3,15 3,15 Power consumption W 120 120 Protection IPX 4D IPX 4D Total weight (dry) kg 40 42		°C	40-60	40-60
Inlet pressure bar 0,75 0,75 Flue gas volume flow 0 g/s 13,8 / 14,9 17,2 / 18,2 Flue gas temperature 0 °C 125-165 125-165 Required boiler draugth Pa 0 0 Flue gas category to DVGW G 635 U ₀₂ U ₀₂ Electrical connection V~/Hz 230/50 230/50 Integral fuse A 3,15 3,15 Power consumption W 120 120 Protection IPX 4D IPX 4D Total weight (dry) kg 40 42		I	8	
Flue gas temperature 1) °C 125-165 125-165 Required boiler draugth Pa 0 0 Flue gas category to DVGW G 635 U ₀₂ U ₀₂ Electrical connection V~/Hz 230/50 230/50 Integral fuse A 3,15 3,15 Power consumption W 120 120 Protection IPX 4D IPX 4D Total weight (dry) kg 40 42		bar	0,75	0,75
Flue gas temperature ¹) °C 125-165 125-165 Required boiler draugth Pa 0 0 Flue gas category to DVGW G 635 U ₀₂ U ₀₂ Electrical connection V~/Hz 230/50 230/50 Integral fuse A 3,15 3,15 Power consumption W 120 120 Protection IPX 4D IPX 4D Total weight (dry) kg 40 42	Flue gas volume flow 1)	g/s	13,8 / 14,9	17,2 / 18,2
$\begin{array}{c ccccc} \text{Flue gas category to DVGW G 635} & & & & & & & & & & \\ & & & & & & & & $	Flue gas temperature 1)	°C		125-165
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Electrical connection V~/Hz 230/50 230/50 Integral fuse A 3,15 3,15 Power consumption W 120 120 Protection IPX 4D IPX 4D Total weight (dry) kg 40 42	Flue gas category to DVGW G 635		U ₀₂	U _{na}
Power consumption W 120 120 Protection IPX 4D IPX 4D Total weight (dry) kg 40 42		V~/Hz		230/50
Power consumption W 120 120 Protection IPX 4D IPX 4D Total weight (dry) kg 40 42	Integral fuse A	3,15	3,15	
Protection IPX 4D IPX 4D Total weight (dry) kg 40 42				120
3 \ 7/			IPX 4D	IPX 4D
	Total weight (dry)	kg	40	42
			CE0085BR0377	CE0085BR0377

Standard control



Illuminated indicator ring as status display

Display	Explanation
Flashing green	Standby (power supply ON, burner OFF)
Constant green	Heat demand: pump running, burner OFF
Flashing yellow	Emissions test mode
Constant yellow	Burner ON, flame steady
Flashing red	Fault



DHW temperature selector

The setting range 1-9 corresponds to a cylinder temperature of 40-60°C. Combined with a control thermostat for wall mounted gas fired boilers, the adjustment at the DHW temperature selector is disabled; instead the temperature is selected at the boiler control thermostat.



Heating water temperature selector

The setting range 2-8 corresponds to a heating water temperature of 40-80°C. Combined with a control thermostat for wall mounted gas fired boilers, the adjustment at the heating water temperature selector is disabled; instead the temperature is selected at the boiler control thermostat.





Winter mode (position 2 to 8)

The circulation pump operates in heating mode.



Summer mode

Switch set to we circulation pump OFF (heating OFF); only DHW heating, frost protection, pump anti-seizing protection enabled; i.e. the circulation pump runs for approx. 30s every 24 hours.



Emissions test mode

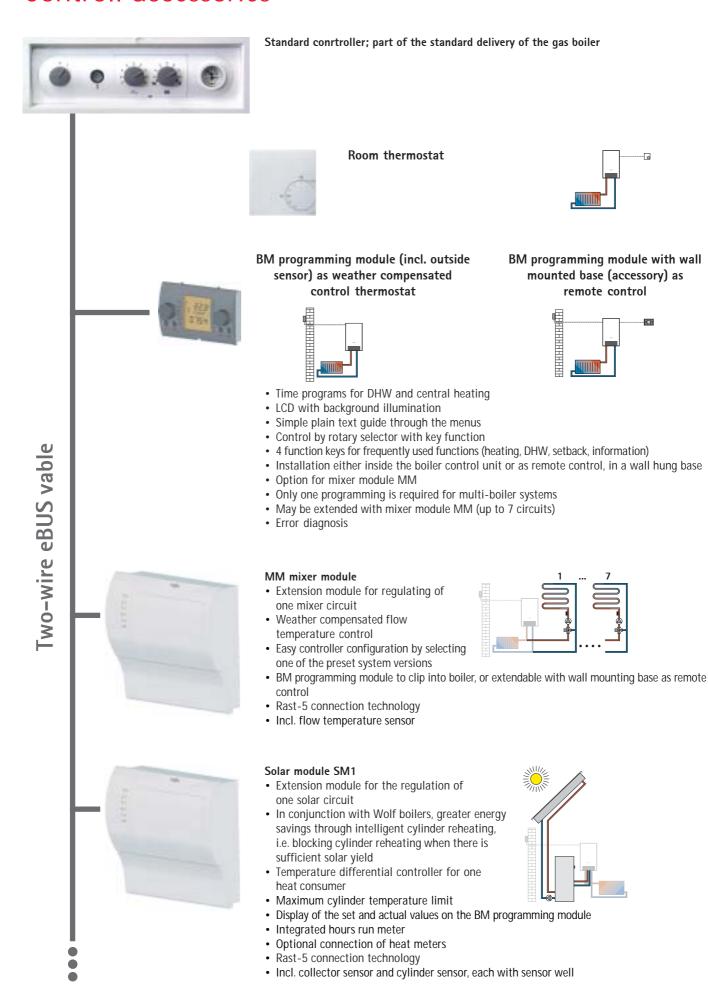
Turning the switch to position lets the boiler operate at maximum output. The illuminated indicator ring flashes yellow for 15 minutes or until the maximum flow temperature has been exceeded.



Thermometer/ pressure gauge

The heating water temperature is displayed in the upper half, the heating system water pressure in the lower half.

Controll accessories





ART

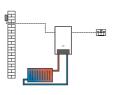
- Analog room temperature controller with day program for DHW and central heating
- Room temperature-dependent flow temperature
- Display for showing the room temperature, time and fault messages
- Room temperature -dependent frost protection





AWT

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

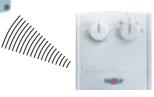




External wireless sensor

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





Wireless remote control

(only in conjunction with a receiver for external wireless sensor and remote control)

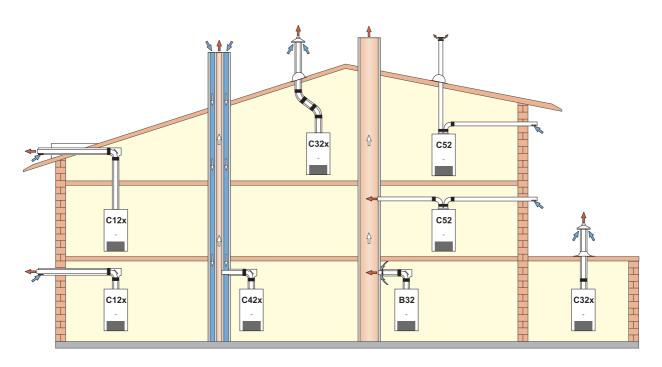
Max. one wireless remote control per mixer circuit.



ISM 1 - interface module

for transferring data to a PC and text messages to a mobile phone

Air / flue gas system types



Туре		max. length* [m] CGG-1K-24/28
C 12 x	External wall connection (balanced flue)	5/5
C 42 x	Connection to a moisture-resistant balanced flue chimney (LAS) max. pipe length from the centre of the boiler bend to the connector 2 m (balanced flue)	Calc. acc. to DIN 4705 (LAS-manufact)
B 32	Flue pipe inside a duct with horizontal, concentric connection pipe. max. pipe the centre of the boiler bend to the connector 2 m (open flue)	Calc. acc. to DIN 4705 (Chimney manufact.)
C 32 x	Vertical flue pipe for duct installation with vertical concentric connection pipe	5/5
C 52	Connection to a flue pipe on an external wall (balanced flue) system 80/80 mm	13 / 12

Note: Systems C 12x, C 32x and C 42x are also suitable for installation in garages.

Where necessary, adapt the installation examples to the relevant building regulations and requirements in your country/ region. Discuss any questions relating to the installation, particularly of inspection pieces and ventilation terminals (ventilation generally required above 50 kW output) with your local heating engineer/flue gas inspector.

Air pipe/ flue gas pipe

It is not allowed to exceed the calculated length of the air pipe/ flue gas pipe of 4 meters for installation of external wall hung boiler or for air pipe/ flue gas pipe through the roof!

The calculated length of the air pipe/ flue gas pipe consists of: - length of the straight duct - length of the bend pipes.

Thereby a 90° bend is calculated as 1 m and a 45° bend as 0,5 m.

Example: $L = straight \ length + length \ of \ the$ Length of a straight air pipe/ flue gas pipe: bend 1,5 m $L = 1,5 \ m + 1 \ x \ 1 \ m + 2 \ x \ 0,5 \ m$ $1 \ x \ 90^{\circ} \ bend \triangleq 1 \ m$ $2 \ x \ 45^{\circ} \ bend \triangleq 2 \ x \ 0,5 \ m$

Connection to moisture-resistant balanced balanced flue chimney (LAS) or flue gas chimney Is is not allowed to exceed the length of the straight air pipe/ flue gas pipe of 2 m for installation on a moisture-resistant balanced flue chimney (LAS) and for installation on a flue gas chimney. As a maximum, two 90° baffles can be assembled in addition to the bend of the boiler connection

Accessories

Control accessories

Room thermostat

Analog room temperature controller ART

Analog weather compensated temperature controller AWT

Operating module BM

Wall socket for operating module BM as a remote controller

Mixing module MM

Solar module SM1

Telephone switch

Maximal thermostat

Radio remote controller

Remote outside sensor

Radio receiver for radio outside sensor and radio remote controller

Hydraulic accessories and accessories for gas connection

3-way-mixer brass 3MG/DN20 kvs 6,3

3MG/DN25 kvs 12 3MG/DN32 kvs 18

Motor for mixer

Connection hardware kit for on wall installation consiting of:

gas valve straight line G 3/4", cock for using water G 3/4",

cock for heating flow/return G 3/4".

Connection hardware for under wall installation cosisting of::

gas valve angular line G $\frac{3}{4}$ ", cock angular line for cold water G $\frac{3}{4}$ ", warm water connection angular line G $\frac{3}{4}$ ", all connections are equipped with clamping ring connections.

Drain kit for safety valve consisting of:

tundish R1" with siphon and rossete, connection part siphon/corrugated flexible tube length 1000 mm, fixing material

Concentric accessories for air/flue gas Ø 60/100 whiteRAL 9010

Connection kit for air/flue gas pipe vertical through angular roof or flat roof, length 1300 mm

with fixing material, colour optionally black or auburn - optionally with or without boiler connection

Connection kit for air/ flue gas pipe horizontal for wall bushing equipped with windbreak

incl. bend for boiler connection 90° with measuring opening, clamps, rossetes and fixing material

Straight connection for boiler with measuring opening

Bend for boiler connection 90° with measuring opening

Condensate sink with siphon, drain tube and fixing material, optionally for vertical or horizontal air/flue gas pipe

Air/ flue gas pipe, length 500 mm

Air/ flue gas pipe, length 1000 mm

Air/flue gas pipe, length 250 mm with revision opening

Air/ flue gas pipe, length 855 mm horizontal with windbreak

 45° bend (1 kit = 2 pieces)

90° bend

Air/ flue gas pipe with air inlet opening for open flue operations, length 250 mm

Sliding collar, length 235 mm (separator included)

Centered triangle (1 kit = 2 pieces)

Gasket for flue pipe as spare part

Gasket for air pipe as spare part

Gasket kit for revision opening

Air/ flue gas accessories for separated air/ flue gas pipe Ø 80/80, white RAL 9010

Connection kit for flue gas pipe in duct and air inlet pipe from external wall, consisting of distributor with measuring opening and two 90° bends

Distributor with measuring opening

45° bend

90° bend

Air/ flue gas pipe, length 500 mm

Air/ flue gas pipe, length 1000 mm

Air flue gas pipe, length 2000 mm

Windbreak for horizontal air pipe

Bird screen for horizontal air pipe

Windbreak/ weatherproof protechtion for vertical flue gas pipe, colour black

Rosette wall outside, silicone

Rosette wall inside, colour white RAL 9010



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