

TECHNICAL DATA SHEET

PRODUCT: Worcester GB162 V2 Boiler

GB162 Range Wall Hung Condensing Boiler:

GB162 – 50	14.3 – 49.9kW	@50/30
GB162 – 65	14.3 – 69.5kW	@50/30
GB162 – 85	20.8 – 84.5kW	@50/30
GB162 – 100	20.8 – 99.5kW	@50/30



- ▶ Compact Power
- ▶ 50, 65, 85 or 100kW wall hung condensing boiler. Cascades of up to 800kW
- ▶ Easy to install, 70kg lift weight and compact dimensions (H) 980cm x (W) 520cm x (D) 465
- ▶ Condensing technology with easy servicing
- ▶ Patented ALU-PLUS® heat exchanger with plasmapolymised surface, no mechanical cleaning is required
- ▶ 5 year guarantee for boiler heat cell, 2 year guarantee for all other components
- ▶ All parts can be serviced from the front
- ▶ Energy Management System (EMS) controls
- ▶ Modulation down to 13kW for 50 & 65kW models
- ▶ Modulation down to 19kW for 80 & 100kW models

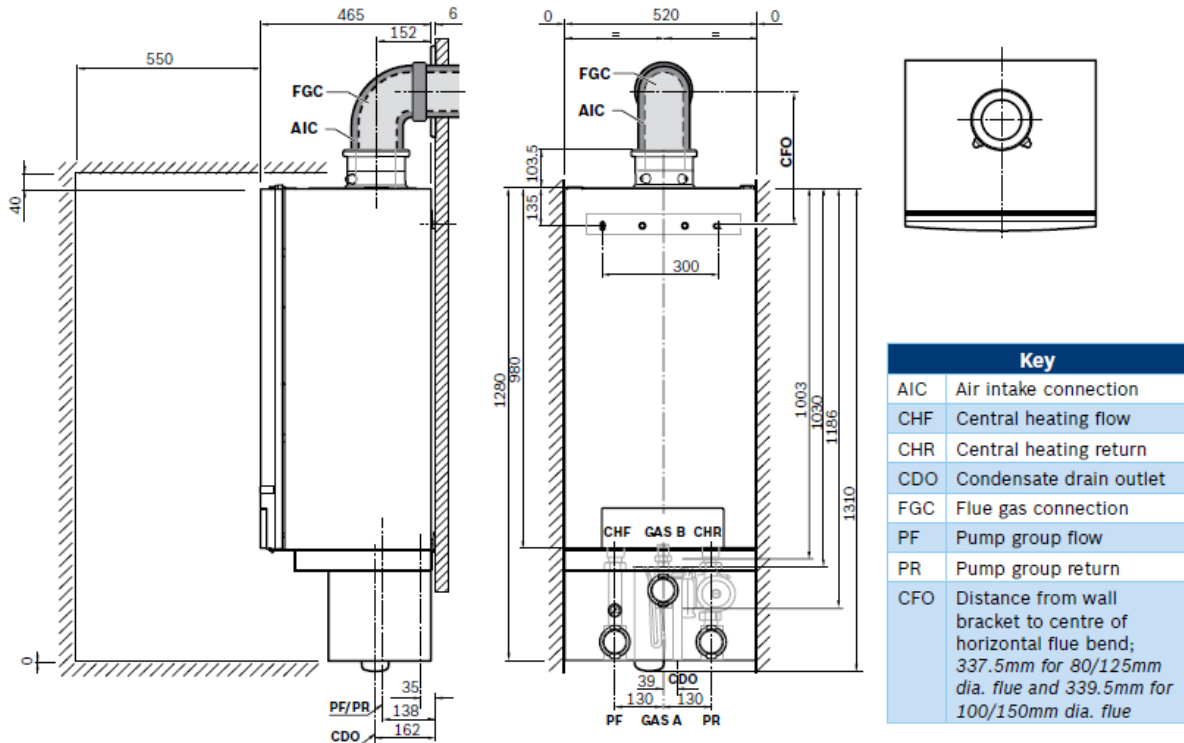
Whilst it is always our intention to fully assist, it is essential to recognise that all information given by the company in response to an enquiry of any nature is provided in good faith and based upon the information provided with the enquiry. We recommend that advice should always be checked with your installer or contract partner. Consequently, the company cannot be held responsible for any liability relating to the use or repetition of such information or part thereof. In addition, whilst making every reasonable effort to monitor the performance and quality of our supply, installation and service network, we do not accept responsibility for the workmanship or operation of any third party company that the company may have promoted either in conversation, e-mail or other communication.

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GB162 Dimensions:



The drawing shows the pump group attached to the boiler, this is a required accessory. Each pump group contains a modulating pump, flow, return and gas isolation valves, flow and return temperature gauges, a pressure gauge, a 4bar PRV, a non-return valve and a connection for an appropriately sized expansion vessel. The GB162 50kW and 65kW can be installed in systems without a low loss header, when the pump group is used as the only pump to provide flow to the circuits. If each circuit has a circulating pump, then the boiler must be hydraulically separated from the system via the means of either a low loss header or a plate heat exchanger. The GB162 85kW and 100kW boilers always require the use of either a low loss header or a plate heat exchanger.

GB162	Unit	50kW	65kW	85kW	100kW
Dimensions without Pump Group (HxWxD)	mm	980x520x465			
Dimensions with Pump Group (HxWxD)	mm	1329x520x465			
Weight (without a Pump Group)	kg	70			
Boiler Flow and Return Connections	inch	G1½' Union Nut Free Female Thread Enclosed			
Condensate Drain	mm	Ø 24			
Gas Nozzle Diameter G20	mm	8.4			
Gas Connection	inch	Rp 1"			
Ø Flue Gas System, Room-Air Dependent	mm	Ø 100 (Air Intake Strainer Basket as Accessory)			
Ø Flue Gas System, Room-Air Independent	mm	Standard Ø 80/125 Concentric		Standard Ø 100/150 Concentric	

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GB162 Technical Specification:

GB 162	Unit	50kW	65kW	85kW	100kW
Nominal Heat Output @ 80/60 °C	kW	13.0–46.5	13.0–62.6	18.9–80.0	19.0–94.5
Nominal Heat Output @ 50/30 °C	kW	14.3–49.9	14.3–69.5	20.8–84.5	20.8–99.5
Rated Heat Input	kW	13.3–47.5	13.3–64.3	19.3–82.0	19.3–96.5
Net Efficiency (Partial load 30% in accordance with EN15502)	%	108.2	107.8	107.9	107.9
Seasonal Efficiency (as L2B)	%	95.7	95.3	95.3	95.4
ErP Class and Seasonal Efficiency	%	A / 93	A / 92	N/A	N/A
Standby Loss (in accordance with EN15502)	kW	0.088	0.088	0.088	0.088
Maximum Working Pressure	bar	4			
Maximum Flow Temperature	°C	90			
Maximum Flow Rate @ ΔT=20k	l/h	5000			
Required Flow Rate @ ΔT=20k	l/hr	2200	3000	3600	4300
Resistance @ Required Flow Rate	mbar	90	170	225	320
Maximum Condensate Rate	l/hr	6.0	7.6	9.3	11.0
Noise Level @ 1m Full Load	dB(A)	53.6	61.4	NA	NA
Fuel Type		Natural Gas H (G20) – LPG (G31)			
Gas Category according to EN 437		GB/IE II _{2H,3P} 20;37mbar			
Gas Pressure – Min/Max	mbar	Natural Gas 17/25 – LPG 25/45			
Gas Rating – Natural Gas (G20)	m ³ /hr	5.03	6.81	8.68	10.24
Gas Rating – LPG (G31)	m ³ /hr	1.80	2.48	3.19	3.76
CO ₂ Content – NG (G20) Full load	%	9.3			
Part load		8.9			
CO Output G20 Full load	ppm	33	57	83	100
NO _x Emission G20 @ Full Load (in accordance with EN15502)	mg/kWh	21	32	39	42
Residual Head of Fan	Pa	85	130	195	220
Flue Gas Mass Flow Rate Full load	g/s	22.2	29.8	37.7	43.8
Flue Gas Temperature @ 80/60 °C Full load	°C	60	62	66	68
Part load		57	57	57	57
Flue Gas Temperature @ 50/30 °C Full load	°C	39	39	49	53
Part load		34	34	34	34
Flue Type		B ₂₃ , B ₃₃ , C ₁₃ , C ₃₃ , C ₄₃ , C ₅₃ , C ₆₃ , C ₈₃ , C ₉₃			
Mains Connection Voltage / Phase	V	230 / Single Phase			
Current Supply Rating		230 VAC, 50 Hz, 5A			
Electrical Ingress Protection		IPX4D (B ₂₃ , B ₃₃ , X0D)			
Electrical Power Consumption (without Pump Group) Full load	W	41	82	102	155
Part load		18	18	25	25
Standby		6	6	6	6

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