

EVO S

100kW



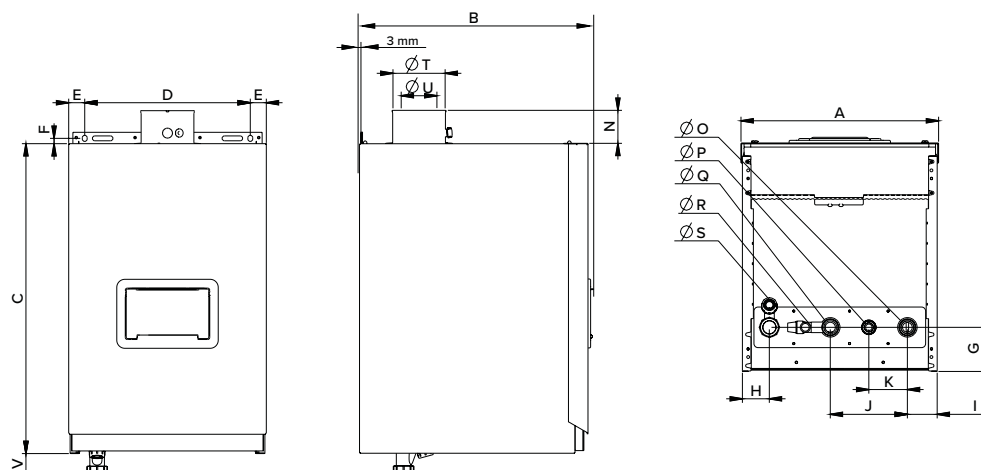
Condensing boiler with stainless steel heat exchanger technology.

Features

- > Robust stainless steel heat exchanger
- > 5 year warranty* (T&Cs apply)
- > 20% hydrogen blend ready
- > NOx class 6 for all models
- > 5:1 turndown
- > Compact design
- > Large product range up to 150kW
- > 6 bar max operating pressure (80kW and above)
- > Cascade ability of up to 900kW (exceptions apply)
- > Full suite of cascade accessories available
- > Energy efficiency class A
- > Full range of hydraulic separation options available
- > Pump modulation controls built into boiler software

Dimensions and Clearances

Boiler	Dimension A	Dimension B	Dimension C	Dimension D
100kW	487mm	668mm	895mm	408mm



The following minimum clearances must be maintained for operation and servicing:



TOP

Between 145 and 450mm depending on flue system type



FRONT

800mm



SIDES

250mm clearance between end boiler and closest wall

EVO S		
	Unit	100kW
Part Number		100008264500
Performance		
Nominal heat input Q _n	kW	96
Minimum heat input Q _{min}	kW	19.2
Modulation		5:1
Nominal output P _n (80/60)	kW	93.4
Nominal output (50/30)	kW	101.3
Max total cascade output (80/60)	kW	560
Thermal efficiency - 100% GCV	%	97.4
Thermal efficiency - 30% NCV	%	108.3
Part L 2022 seasonal efficiency	%	97.5
Seasonal space heating efficiency (ErP)	%	92
Space heating energy efficiency class		n/a
Standing loss	W	63
Combustion		
Min/Max gas pressure (NG)	mbar	17/25
Min/Max gas pressure (LPG)	mbar	25/45
Gas flow rate at P _n (15°C) (NG)	m ³ /h	10.2
Gas flow rate at P _n (15°C) (LPG)	m ³ /h	3.93
NO _x Emissions according to EN 15502-1 (Gross)	mg/kWh	39
NO _x class		6
Hydraulic		
Flow rate at nominal heat input Q _n	m ³ /h	4.3
Flow rate at minimum heat input Q _{min}	m ³ /h	2.3
Maximum operating pressure	bar	6
Minimum operating pressure	bar	1
Maximum operating temperature	°C	85
Water content	L	7.5
Sound power at P _{max} L _w	dB(A)	64.7
System Hydraulic Info (NG & LPG)		
Hydraulic resistance (ΔT 11 °C)	mbar	1457
Flow rate (ΔT 11 °C)	l/min	129.9
Hydraulic resistance (ΔT 15 °C)	mbar	794
Flow rate (ΔT 15 °C)	l/min	95.2
Hydraulic resistance (ΔT 20 °C)	mbar	449
Flow rate (ΔT 20 °C)	l/min	71.4
Hydraulic resistance (ΔT 25 °C)	mbar	287
Flow rate (ΔT 25 °C)	l/min	57.1
Max system temp differential	°C	30*
Hydraulic resistance (ΔT 30 °C)	mbar	200
Flow rate (ΔT 30 °C)	l/min	47.6

* Boilers must be at maximum load to achieve this temperature differential

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Flue		
C = Concentric Flue, B = Open Flue		
Approved flue systems		B23, B23P, C13, C33
Flue size		100/150
Concentric flue system max length (NG)	m	10
Concentric flue system max length (LPG)	m	10
Vertical concentric flue system (C33) min length (LPG only)	m	1m
Max allowable nozzle pressure open flue (80/60) NG	Pa	165
Max allowable nozzle pressure open flue (50/30) NG	Pa	153
Max allowable nozzle pressure open flue (80/60) LPG	Pa	165
Max allowable nozzle pressure open flue (50/30) LPG	Pa	145
Flue gas mass flow rate (80/60) NG	g/s	44.7
Flue gas mass flow rate (50/30) NG	g/s	40.3
Flue gas mass flow rate (80/60) LPG	g/s	42.8
Flue gas mass flow rate (50/30) LPG	g/s	45.2
Electric		
Electrical supply		230V - 50Hz
Power consumption at Q _n	kW	0.143
Power consumption in standby mode	kW	0.004
Physical		
Dry weight	kg	77
Gas supply connection		G 1"
Flow/Return connections		G 1 1/4"
Clearances - front of boiler (service clearance)	mm	800
Clearances - boiler to wall	mm	250
Clearances - above boiler casing (B23/B23P flue)	mm	289
Clearances - above boiler casing (C13 flue)	mm	325
Clearances - above boiler casing (C33 flue)	mm	145
Available Accessories		
Inline cascade kits		✓
High efficiency boiler pump		✓
Bespoke low loss headers		✓
Pre-sized PHEXs		✓
Additional circuit control kits		✓
Modbus communication gateway		✓
Temperature sensor kits		✓
Remote run/fault signalling kit		✓

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