

# EVO S

## 150kW



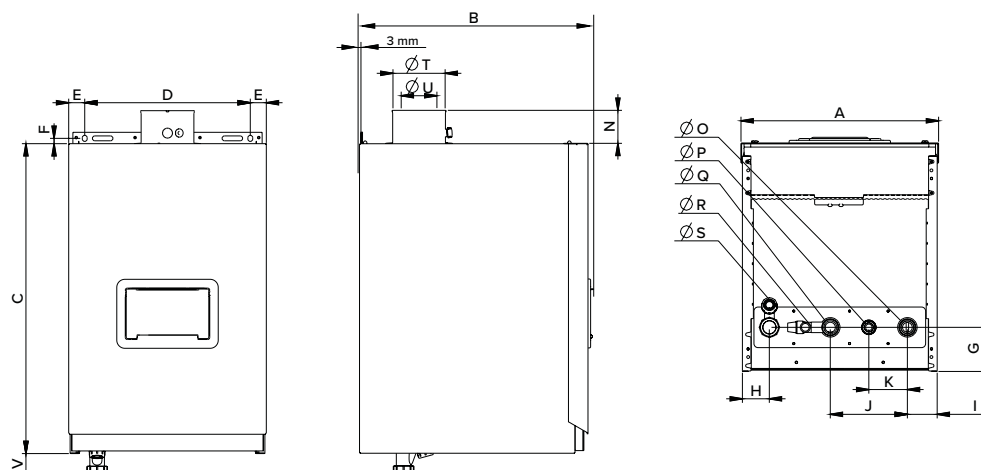
**Condensing boiler with stainless steel heat exchanger technology.**

### 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
150kW	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	150kW
Part Number		100008264700
<b>Performance</b>		
Nominal heat input Q <sub>n</sub>	kW	145
Minimum heat input Q <sub>min</sub>	kW	29
Modulation		5:1
Nominal output P <sub>n</sub> (80/60)	kW	141.1
Nominal output (50/30)	kW	154.5
Max total cascade output (80/60)	kW	847
Thermal efficiency - 100% GCV	%	97.4
Thermal efficiency - 30% NCV	%	108.6
Part L 2022 seasonal efficiency	%	97.8
Seasonal space heating efficiency (ErP)	%	93
Space heating energy efficiency class		n/a
Standing loss	W	69
<b>Combustion</b>		
Min/Max gas pressure (NG)	mbar	17/25
Gas flow rate at P <sub>n</sub> (15°C) (NG)	m³/h	15.3
NO <sub>x</sub> Emissions according to EN 15502-1 (Gross)	mg/kWh	39
NO <sub>x</sub> class		6
<b>Hydraulic</b>		
Flow rate at nominal heat input Q <sub>n</sub>	m³/h	6.23
Flow rate at minimum heat input Q <sub>min</sub>	m³/h	3.44
Maximum operating pressure	bar	6
Minimum operating pressure	bar	1
Maximum operating temperature	°C	85
Water content	L	11
Sound power at P <sub>max</sub> L <sub>w</sub>	dB(A)	59.2
<b>System Hydraulic Info (NG &amp; LPG)</b>		
Hydraulic resistance (ΔT 11 °C)	mbar	2278
Flow rate (ΔT 11 °C)	l/min	188.3
Hydraulic resistance (ΔT 15 °C)	mbar	1223
Flow rate (ΔT 15 °C)	l/min	138.1
Hydraulic resistance (ΔT 20 °C)	mbar	701
Flow rate (ΔT 20 °C)	l/min	103.6
Hydraulic resistance (ΔT 25 °C)	mbar	441
Flow rate (ΔT 25 °C)	l/min	82.9
Max system temp differential	°C	30*
Hydraulic resistance (ΔT 30 °C)	mbar	313
Flow rate (ΔT 30 °C)	l/min	69.1

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

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<b>Flue</b>		
C = Concentric Flue, B = Open Flue		
Approved flue systems		B23, B23P, C13, C33
Flue size		100/150
Concentric flue system max length (NG)	m	6
Max allowable nozzle pressure open flue (80/60) NG	Pa	190
Max allowable nozzle pressure open flue (50/30) NG	Pa	170
Flue gas mass flow rate (80/60) NG	g/s	67.5
Flue gas mass flow rate (50/30) NG	g/s	60.8
<b>Electric</b>		
Electrical supply		230V - 50Hz
Power consumption at Q <sub>n</sub>	kW	0.26
Power consumption in standby mode	kW	0.003
<b>Physical</b>		
Dry weight	kg	100
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
<b>Available Accessories</b>		
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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