EVO S

120kW



Condensing boiler with stainless steel heat exchanger technology.

Features

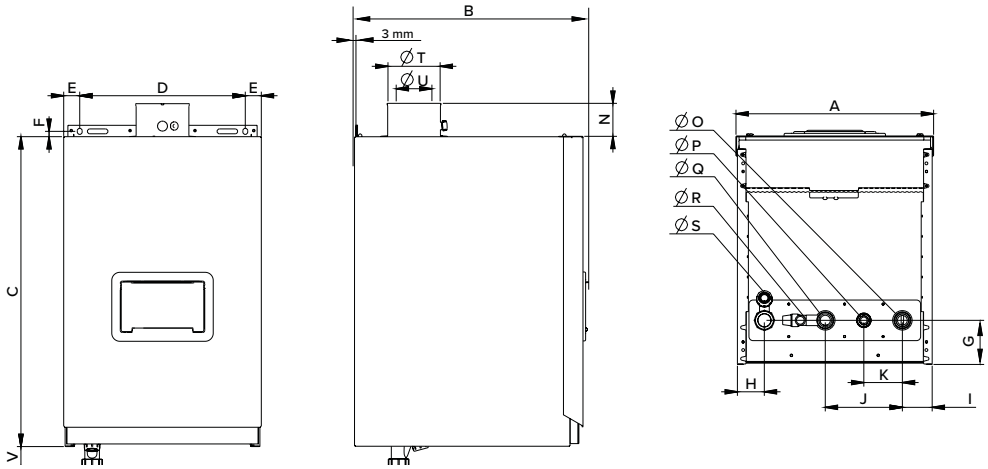
- Robust stainless steel heat exchanger
- NOx class 6 for all models
- 5:1 turndown
- Large product range up to 150kW
- 6 bar max operating pressure (80kW and above)
- Cascade ability of up to 900kW (exceptions apply)
- Compact design
- Full suite of cascade accessories available
- Energy efficiency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

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5 year warranty*

Dimensions and Clearances

Boiler	Dimension A	Dimension B	Dimension C	Dimension D
120kW	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

*5 year warranty subject to terms and conditions. 5 years parts and labour warranty available subject to being commissioned by ACV. Must be fitted with a suitably sized Low Loss Header or Plate Heat Exchanger. Terms and Conditions available at acv.com/gb

EVO S		
	Unit	120kW
Part Number		100008264600
Performance		
Nominal heat input Qn	kW	120
Minimum heat input Qmin	kW	24
Modulation		5:1
Nominal output Pn (80/60)	kW	116.8
Nominal output (50/30)	kW	127.8
Max total cascade output (80/60)	kW	584
Thermal efficiency - 100% GCV	%	97.4
Thermal efficiency - 30% NCV	%	108.3
Part L 2022 seasonal efficiency	%	95.6
Seasonal space heating efficiency (ErP)	%	92
Space heating energy efficiency class		n/a
Standing loss	W	72
Combustion		
Min/Max gas pressure (NG)	mbar	17/25
Min/Max gas pressure (LPG)	mbar	25/45
Gas flow rate at Pn (15°C) (NG)	m^3/h	12.7
Gas flow rate at Pn (15°C) (LPG)	m^3/h	4.91
NOx Emissions according to EN 15502-1 (Gross)	mg/kWh	39
NOx class		6
Hydraulic		
Flow rate at nominal heat input Qn	m3/h	5.16
Flow rate at minimum heat input Qmin	m3/h	3
Maximum operating pressure	bar	6
Minimum operating pressure	bar	1
Maximum operating temperature	°C	85
Water content	L	9.5
Sound power at Pmax Lw	dB(A)	64.9
System Hydraulic Info (NG & LPG)		
Hydraulic resistance (ΔT 11 °C)	mbar	1648
Flow rate (ΔT 11 °C)	l/min	155.8
Hydraulic resistance (ΔT 15 °C)	mbar	881
Flow rate (ΔT 15 °C)	l/min	114.3
Hydraulic resistance (ΔT 20 °C)	mbar	515
Flow rate (ΔT 20 °C)	l/min	85.7
Hydraulic resistance (ΔT 25 °C)	mbar	335
Flow rate (ΔT 25 °C)	l/min	68.6
Max system temp differential	°C	30*
Hydraulic resistance (ΔT 30 °C)	mbar	229
Flow rate (ΔT 30 °C)	l/min	57.1

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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	8
Concentric flue system max length (LPG)	m	8
Max allowable nozzle pressure open flue (80/60) NG	Pa	190
Max allowable nozzle pressure open flue (50/30) NG	Pa	157
Max allowable nozzle pressure open flue (80/60) LPG	Pa	190
Max allowable nozzle pressure open flue (50/30) LPG	Pa	170
Flue gas mass flow rate (80/60) NG	g/s	55.8
Flue gas mass flow rate (50/30) NG	g/s	50.3
Flue gas mass flow rate (80/60) LPG	g/s	53.5
Flue gas mass flow rate (50/30) LPG	g/s	57.1
Electric		
Electrical supply		230V - 50Hz
Power consumption at Qn	kW	0.233
Power consumption in standby mode	kW	0.003
Physical		
Dry weight	kg	81
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		✓

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

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