

Sirius two FS 50-110kW

Floor standing condensing boiler

Particularly suitable for replacement projects such as large domestic properties and small commercial premises, and for medium sized applications that require up to 440kW.



Features

- Outputs of 50kW, 70kW, 90kW and 110kW for single boilers, and up to 440kW when used with cascade pipework kits
- Efficiency up to 96.6%
- Stainless steel heat exchanger
- 9:1 modulation ratio
- Five year parts and labour warranty*
- Room sealed flue
- Integral low loss header (optional extra)
- 0-10 V connections as an available option
- Commissioning by Potterton Commercial engineers and service plans are available
- Compatible with renewable technologies

Benefits

- Suitable for a wide range of properties, from large domestic to medium sized commercial premises
- Makes maximum use of the energy it uses, making it very cost effective
- Designed for maximum combustion performance and energy efficiency
- Extremely energy efficient, saving money and reducing carbon
- For complete peace of mind
- Can be used as a replacement for boilers in living spaces
- Easy to install and looks professional
- For easy Building Management System (BMS) interface
- We will provide on-going support for your boiler
- The controls can be programmed to work with solar thermal, biomass and buffer tanks

*Subject to terms and conditions. See pottertoncommercial.co.uk for more details.



sales 0345 070 1055
 technical 0345 070 1057
 web pottertoncommercial.co.uk

Registered office address: Baxi Heating UK, Coventry Road, Warwick, CV34 4LL

Specification

Performance	Fuel Type		Sirius two FS 50	Sirius two FS 70	Sirius two FS 90	Sirius two FS 110
Output @ 80/60°C	NG	kW	45.1	65.1	85.1	102
Output @ 50/30°C	NG	kW	48.6	70.3	92.2	110.2
Input (Gross) Maximum	NG	kW	51.4	74.3	97	116.4
Output @ 80/60°C	LPG	kW	45.1	65.1	85.1	102
Output @ 50/30°C	LPG	kW	48.6	70.3	92.2	110.2
Input (LPG) Maximum	LPG	kW	51.4	74.3	97	116.4

Efficiency	Value %		Sirius two FS 50	Sirius two FS 70	Sirius two FS 90	Sirius two FS 110
Efficiency @ 80/60°C - 100% Load	% Gross		87.8	87.6	87.7	87.6
Efficiency @ 30% Load	% Gross		97.1	96.8	96.9	96.8
Current Building Regulations - Part L2 Seasonal Efficiency	% Gross		96.6	96.4	96.8	96.4
ErP efficiency rating			A	A	N/A	N/A

Gas			Sirius two FS 50	Sirius two FS 70	Sirius two FS 90	Sirius two FS 110
Gas Consumption (Natural Gas)	m³/h		4.9	7.07	9.25	11.1
Gas Consumption (LPG)	Kg/h		3.59	5.19	6.79	8.15
Inlet Gas Pressure (Natural Gas - G20)	m/bar			20		
Inlet Gas Pressure (LPG - G31)	m/bar			37		
Gas Connection Size	inch		¾	¾	1	1
Gas Connection Type			Male Thread			

Flue			Sirius two FS 50	Sirius two FS 70	Sirius two FS 90	Sirius two FS 110
Flue Gas Volume at 80/60°C (NG)	m³/h at STP		67.6	97.7	127.6	147.2
Flue Gas Volume at 50/30°C (NG)	m³/h at STP		62.8	90.5	117.7	136.2
Flue Gas Volume at 80/60°C (LPG)	m³/h at STP		61.5	88.9	114.1	139.3
Flue Gas Volume at 50/30°C (LPG)	m³/h at STP		57.1	82.4	105.2	128.9
Max Flue Gas Pressure @ Outlet (B23)	pa		200			

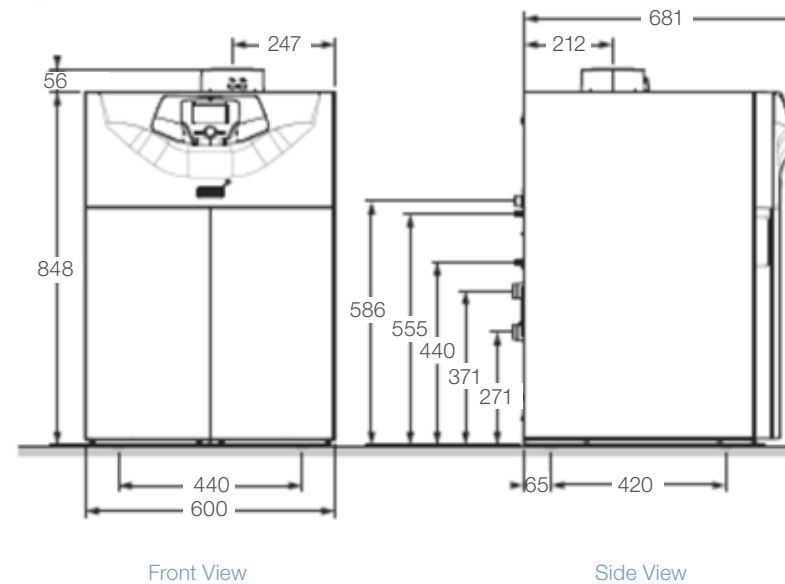
Hydraulic			Sirius two FS 50	Sirius two FS 70	Sirius two FS 90	Sirius two FS 110
Water Flow Rate @ 15°C ΔT	l/s		0.72	1.04	1.36	1.63
Water Flow Rate @ 20°C ΔT	l/s		0.54	0.78	1.02	1.22
Hydraulic Resistance @ 15°C ΔT	kPa		94	52	40	40
Hydraulic Resistance @ 20°C ΔT	kPa		54	32	22	22
Water Content	litres		3	5	9	10
Flow & Return Connection Size	mm		1	1	1½	1½
Flow & Return Connection Type			Male Thread			
Flue Connection Size	mm		80/125	80/125	110/160	110/160
Maximum Boiler Operating Pressure	bar		4			
Minimum Boiler Operating Pressure	bar		1			
Maximum Flow Temperature	°C		80			

General			Sirius two FS 50	Sirius two FS 70	Sirius two FS 90	Sirius two FS 110
Appliance Dry Weight	Kg		60	70	104	109
NOx Level (Dry @ 0% O₂)	mg/kWh		29.8	34.8	39.5	24.7
CO₂ Content – Natural Gas	%		8.5 - 9	8.5 - 9	8.5 - 9	9 - 9.2
CO₂ Content – LPG	%		9.5 - 10	9.5 - 10	9.9 - 10	9.5 - 10
High Level Ventilation (BS 6644)	cm²		93	134	175	210
Low Level Ventilation (BS 6644)	cm²		185	268	350	418

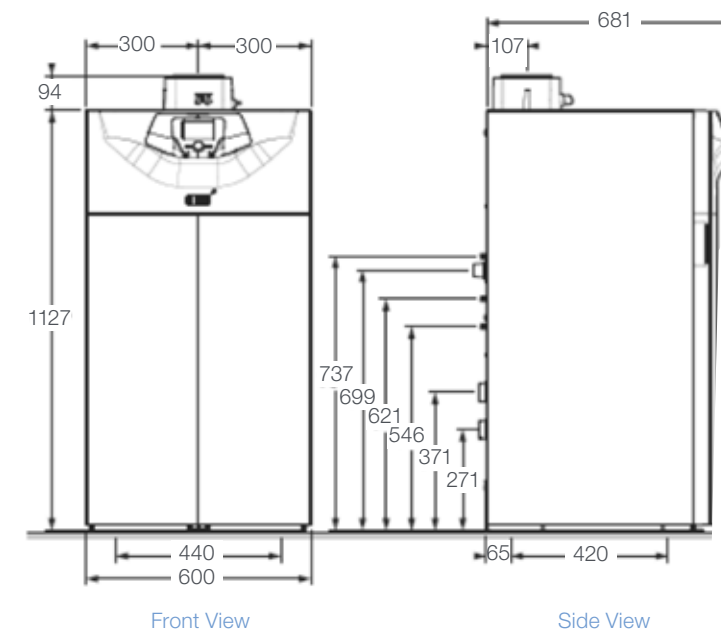
Electrical			Sirius two FS 50	Sirius two FS 70	Sirius two FS 90	Sirius two FS 110
Power consumption	W		100	117	146	185
Nominal Supply Voltage	V/Hz		230 v 1 Ph 50 Hz			

Dimensions

Sirius two FS 50-70kW



Sirius two FS 90-110kW



	Sirius two FS 50	Sirius two FS 70	Sirius two FS 90	Sirius two FS 110
Width	600	600	600	600
Depth	681	681	681	681
Height	905	905	1222	1222