

# Sirius two WH

## Wall hung stainless steel condensing boilers

Compact and lightweight, Sirius two WH condensing boilers offer a market-leading modulation ratio of 9:1 and come with weather compensation as standard, ensuring high seasonal efficiency all year around.



### Features

- Stainless steel heat exchanger

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- Very compact design with reduced weight

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- Room sealed flue

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- Weather sensor as standard

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- 1" flow and return connections (50kW, 60kW and 70kW models)

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- Class A modulating pump option

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- The controls can be programmed to work with solar thermal, biomass and buffer tanks

### Benefits

- Designed for maximum combustion performance and energy efficiency

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- Easy to install in small spaces. 50kW and 60kW models similar in size to a domestic boiler

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- Suitable for use in living spaces

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- Output varies according to outside conditions, reducing running costs

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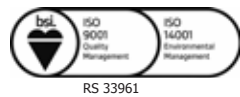
- No need for major system pipework modifications

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- ErP ready

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- Sustainable, energy efficient, solution for a wide range of applications



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## Specification

Performance	Fuel Type		Sirius two WH 50	Sirius two WH 60	Sirius two WH 70	Sirius two WH 90	Sirius two WH 110
Output @ 80/60°C	NG	kW	45.1	55	65.1	85.1	102
Output @ 50/30°C	NG	kW	48.6	59.4	70.3	92.2	110.2
Input (Gross) Maximum	NG	kW	51.4	62.8	74.3	97.0	116.4
Output @ 80/60°C	LPG	kW	45.1	55	65.1	85.1	102
Output @ 50/30°C	LPG	kW	48.6	59.4	70.3	92.2	110.2
Input (Gross) Maximum	LPG	kW	46.3	56.6	66.9	87.4	104.9

Efficiency	Value (%)		Sirius two WH 50	Sirius two WH 60	Sirius two WH 70	Sirius two WH 90	Sirius two WH 110
Efficiency @ 80/60°C - 100% Load	% Gross		87.8	87.6	87.6	87.7	87.6
Efficiency @ 50/30°C - 30% Load	% Gross		97.1	96.8	96.5	96.9	96.8
Current Building Regulations - Part L2 Seasonal Efficiency	% Gross		96.6	96.4	96.1	96.6	96.4
ErP efficiency rating			A	A	A	N/A	N/A

Gas			Sirius two WH 50	Sirius two WH 60	Sirius two WH 70	Sirius two WH 90	Sirius two WH 110
Gas Consumption (Natural Gas)	m³/h		4.9	5.98	7.07	9.25	11.1
Gas Consumption (LPG)	Kg/h		3.6	4.4	5.2	6.6	7.92
Inlet Gas Pressure (Natural Gas-G20)	m/bar				20		
Inlet Gas Pressure (LPG-G33)	m/bar				37		
Gas Connection Size	inch		¾	¾	¾	1	1
Gas Connection Type	Thread				Male Thread		

Flue			Sirius two WH 50	Sirius two WH 60	Sirius two WH 70	Sirius two WH 90	Sirius two WH 110
Flue Gas Volume at 80/60°C (NG)	m³/h @ STP		67.6	82.6	97.7	127.6	147.2
Flue Gas Volume at 50/30°C (NG)	m³/h @ STP		62.8	76.5	90.5	117.7	136.2
Flue Gas Volume at 80/60°C (LPG)	m³/h @ STP		61.5	75.2	88.9	114.1	139.3
Flue Gas Volume at 50/30°C (LPG)	m³/h @ STP		57.1	69.6	82.4	105.2	128.9
Max Flue Gas Pressure @ Outlet	pa		270	270	270	200	200

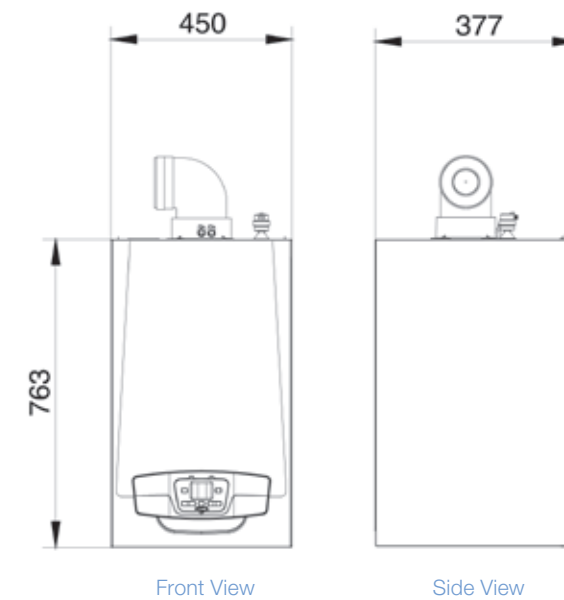
Hydraulic			Sirius two WH 50	Sirius two WH 60	Sirius two WH 70	Sirius two WH 90	Sirius two WH 110
Water Flow Rate @ 15°C ΔT	l/s		0.72	0.88	1.04	1.36	1.63
Water Flow Rate @ 20°C ΔT	l/s		0.54	0.66	0.78	1.02	1.22
Hydraulic Resistance @ 15°C ΔT	kPa		85	92	45	35	36
Hydraulic Resistance @ 20°C ΔT	kPa		48	55	30	22	22
Water Content	litres		4	5	6	9	10
Flow & Return Connection Size	inch		1	1	1	1½	1½
Flow & Return Connection Type					Male Thread		
Flue Connection Size	mm		80/125	80/125	80/125	110/160	110/160
Max Boiler Operating Pressure	bar				4		
Min Boiler Operating Pressure	bar				1		
Maximum Flow Temperature	°C				80		

General			Sirius two WH 50	Sirius two WH 60	Sirius two WH 70	Sirius two WH 90	Sirius two WH 110
Appliance Dry Weight	Kg		40	40	50	83	93
NOx Level (Dry @ 0% O₂)	mg/kWh		29.8	34.1	34.8	36.5	24.7
CO₂ Content – Natural Gas	%		8.5 - 9	9	8.5 - 9	8.5 - 9	9 - 9.2
CO₂ Content – LPG	%		9.5 - 10	9.4 - 10.1	9.5 - 10	9.9 - 10	9.5 - 10
Noise Levels @ 1 metre from unit	dB(A)		48.6	47.5	48.5	49.5	48.8
High Level Ventilation (BS 6644)	cm²		93	113	134	175	210
Low Level Ventilation (BS 6644)	cm²		185	226	268	350	420

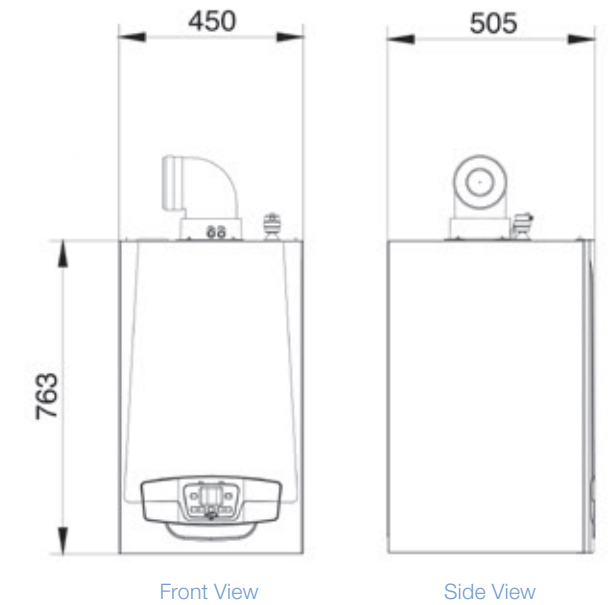
Electrical			Sirius two WH 50	Sirius two WH 60	Sirius two WH 70	Sirius two WH 90	Sirius two WH 110
Power consumption	W		80	95	95	130	165
Nominal supply voltage	V/Hz				230 v 1 Ph 50 Hz		

## Dimensions

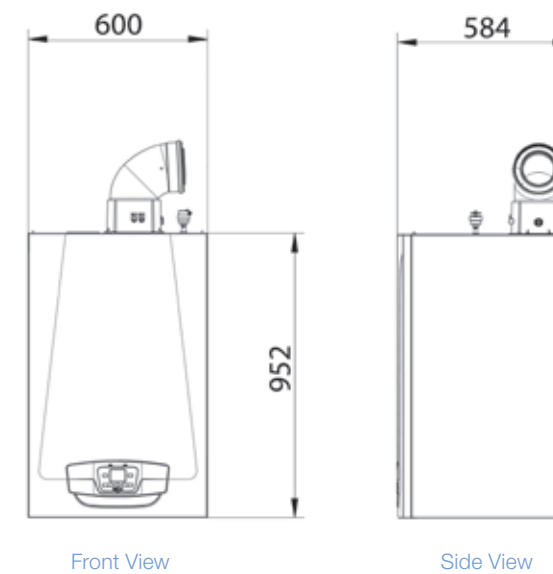
### Sirius two WH 50 - 60kW



### Sirius two WH 70kW



### Sirius two WH 90 - 110kW



		Sirius two WH 50	Sirius two WH 60	Sirius two WH 70	Sirius two WH 90	Sirius two WH 110
Width	mm	450	450	450	600	600
Depth	mm	377	377	505	584	584
Height	mm	763	763	763	952	952
<b>Clearances</b>						
Top	mm	300	300	300	400	400
Right Hand*	mm	20	20	20	20	20
Left Hand*	mm	20	20	20	20	20
Bottom	mm	500	500	500	500	500
Front	mm	400	400	550	600	600

\*single units can be installed 20mm from each other