

Sirius three WH 50-150kW

Wall-hung stainless steel condensing boilers

Compact and lightweight, Sirius three WH condensing boilers offer a impressive modulation ratio of up to 9:1 and come with weather compensation as standard, ensuring high seasonal efficiency all year around.



Features

Wide range of outputs: 50, 60, 70, 90, 110, 130, 150kW
Lightweight stainless steel heat exchanger
Modulation ratio of up to 9:1
Gross seasonal efficiency up to 97.3%
Low NOx under 24.7mg/kW
Supplied with the latest Siemens controls
QA75 Twist Knob Controller
0-10 volt connection
Integrated Cascade function
Very compact design
1" flow and return connections (50-70kW)
Can be programmed to work with solar thermal, biomass and buffer tanks
Commissioning by Potterton Commercial engineers and service plans are available
5 year parts and labour warranty*

Benefits

Suitable for a wide range of commercial applications
Reliable and energy efficient heat transfer
Wide modulation ratio reduces constant on/off cycling to improve efficiency and boiler longevity
Reduced energy consumption
Minimises impact on the environment
State of the art PCB offering improved control options
Simple descriptive display and easy to use advanced programming functions
Provides a quick and simple interface with BMS
Up to 16 boilers can be managed by the Siemens controller
130kW and 150kW in the same footprint as 110kW
Avoids major pipework modification
Sustainable, energy efficient solution across complete range
On-going support for the boiler
For complete peace of mind

Specification

Performance	Fuel Type		Sirius three WH 50	Sirius three WH 60	Sirius three WH 70	Sirius three WH 90
Output @ 80/60°C	NG	kW	45.1	55.0	65.1	85.1
Output @ 50/30°C	NG	kW	48.6	59.4	70.3	91.8
Input (Gross) Maximum	NG	kW	51.4	62.8	74.3	97.0
Input (Net) Maximum	NG	kW	46.3	56.6	66.9	87.4
Output @ 80/60°C	LPG	kW	45.1	55.0	65.1	85.1
Output @ 50/30°C	LPG	kW	48.6	59.4	70.3	92.2
Input (LPG) (Gross) Maximum	LPG	kW	51.4	62.8	74.3	97.0
Input (LPG) (Net) Maximum	LPG	kW	47.3	57.8	68.4	89.3

Efficiency	Value %					
Efficiency @ 80/60°C - 100% Load	% Gross		87.8	87.6	87.6	87.7
Efficiency at 50/30°C - 100% Load	% Gross		94.61	94.61	94.61	95.06
Efficiency @ 30% Load	% Gross		97.1	96.8	96.5	96.9
Current Building Regulations - Part L2 Seasonal Efficiency	% Gross		96.6	96.4	96.1	96.5
ErP efficiency rating			A	A	A	N/A

Gas						
Gas Consumption (Natural Gas)	m³/h		4.90	5.98	7.07	9.25
Gas Consumption (LPG)	Kg/h		3.60	4.40	5.20	6.60
Inlet Gas Pressure (Natural Gas - G20)	m/bar			17 - 25		
Inlet Gas Pressure (LPG - G31)	m/bar			27 - 45		
Gas Connection Size	inch		¾	¾	¾	1
Gas Connection Type			Male Thread			

Flue						
Flue Gas Volume at 80/60°C (NG)	m³/h at STP		67.6	82.6	97.7	127.6
Flue Gas Volume at 50/30°C (NG)	m³/h at STP		62.8	76.5	90.5	117.7
Flue Gas Volume at 80/60°C (LPG)	m³/h at STP		61.5	75.2	88.9	114.1
Flue Gas Volume at 50/30°C (LPG)	m³/h at STP		57.1	69.6	82.4	105.2
Max Flue Gas Pressure @ Outlet (B23)	pa		270	270	270	200

Hydraulic						
Water Flow Rate @ 15°C ΔT	l/s		0.72	0.88	1.04	1.36
Water Flow Rate @ 20°C ΔT	l/s		0.54	0.66	0.78	1.02
Water Flow Rate @ 30°C ΔT	l/s		0.36	0.44	0.52	0.68
Hydraulic Resistance @ 15°C ΔT	kPa		85	92	45	35
Hydraulic Resistance @ 20°C ΔT	kPa		48	55	30	22
Hydraulic Resistance @ 30°C ΔT	kPa		22	24	18	10
Water Content	litres		4	5	6	9
Flow & Return Connection Size	inch		1"	1"	1"	1½"
Flow & Return Connection Type			Male Thread			
Flue Connection Size	mm		80/125	80/125	80/125	110/160
Maximum Boiler Operating Pressure	bar		4			
Minimum Boiler Operating Pressure	bar		1			
Maximum Flow Temperature	°C		85			

General						
Appliance Dry Weight	Kg		40	40	50	83
NOx Level (Dry @ 0% O2)	mg/kWh		29	31	31	31
CO ₂ Content – Natural Gas	%		8.5 - 9	9	8.5 - 9	8.5 - 9
CO ₂ Content – LPG	%		9.5 - 10	9.4 - 10.1	9.5 - 10	9.9 - 10
High Level Ventilation (BS 6644)	cm²		93	113	134	175
Low Level Ventilation (BS 6644)	cm²		185	226	268	350

Electrical						
Power consumption	W		80	95	95	130
Nominal Supply Voltage	V/Hz		230 v 1 Ph 50 Hz			

Sirius three
WH 110

Sirius three
WH 130

Sirius three
WH 150

102	121.5	140.3
110.2	130.6	150.9
116.4	137.4	158.6
104.9	123.8	143.0
102	121	140
110.2	130	150
116.4	137.4	158.6
107.2	126.6	146.0

87.6	88.4	88.4
94.70	95.1	95.1
96.8	97.8	97.8
96.4	97.3	97.3
N/A	N/A	N/A

11.1	13.1	15.1
7.92	9.8	11.3
	17 - 25	
	27 - 45	
1	1	1
	Male Thread	

147.2	181	208
136.2	166	191
139.3	168	184
128.9	153	170
200	180	270

1.63	2.08	2.71
1.22	1.56	2.03
0.81	1.0	1.2
36	69	70
22	41	41
11	18	20
10	10	11
1½"	1½"	1½"
	Male Thread	
110/160	110/160	110/160
4	6	
	1	
	85	

93	93	96
22	17	23
9 - 9.2	9.2	9.2
9.5 - 10	10.2	10.2
210	284	286
420	496	572

165	187	283
	230 v 1 Ph 50 Hz	

Single boiler outputs

50kW to
150kW

Gross seasonal efficiency

Up to
97.3%

Modulation ratio

Up to 9:1

Cascade output

Up to
700kW

High efficiency condensing boilers

Designed to
meet carbon
reduction
targets

Lifetime
service and
support



sales 0345 070 1055

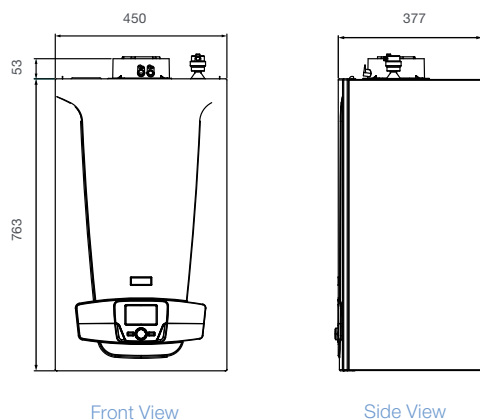
technical 0345 070 1057

web pottertoncommercial.co.uk

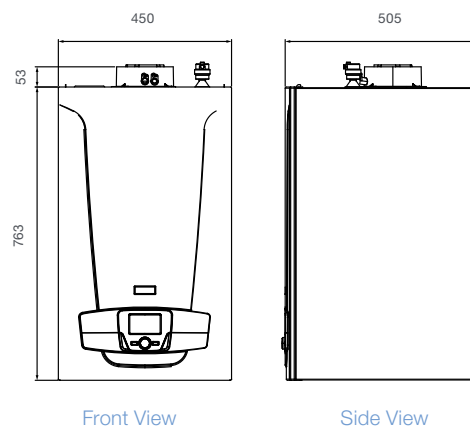


Dimensions

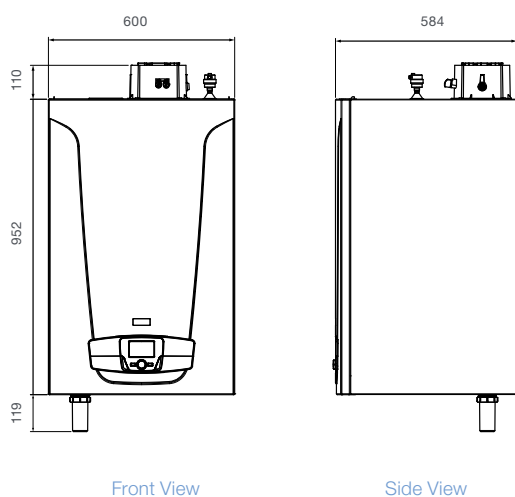
Sirius three WH 50/60kW



Sirius three WH 70kW



Sirius three WH 90/110/130/150kW



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