

Specifications for Sirius two WH

Specification							
Model			50	60	70	90	110
Performance	Fuel Type						
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 (%)						
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 Reg 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							
Gas Consumption	NG	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	NG-G20	m/bar	20				
Inlet Gas Pressure	LPG-G33	m/bar	37				
Gas Connection Size		inch	0.75"	0.75"	0.75"	1"	1"
Gas Connection Type			Male Thread				
Flue							
Flue Gas Volume @ 80/60°C (NG)	m³/h@STP		67.6	82.6	97.7	127.6	147.2
Flue Gas Volume @ 50/30°C (NG)	m³/h@STP		62.8	76.5	90.5	117.7	136.2
Flue Gas Volume @ 80/60°C (LPG)	m³/h@STP		61.5	75.2	88.9	114.1	139.3
Flue Gas Volume @ 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							
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"	1.5"	1.5"
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							
Appliance Dry Weight	Kg		40	40	50	83	93
Dimension W x D x H	mm		450 x 377 x 763	450 x 377 x 763	450 x 505 x 763	600 x 584 x 952	600 x 584 x 952

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							
Power consumption	W		80	95	95	130	165
Nominal supply voltage	V / Hz		230 v 1 Ph 50 Hz Δ				