

# Sirius FS 525kW

## Floor standing condensing boiler

The Sirius FS floor standing condensing boiler provides an energy efficient, cost effective heating solution for large commercial buildings such as schools, hotels, nursing homes and leisure facilities. It benefits from the latest dual burner technology, which delivers an industry-leading modulation ratio of 10:1.

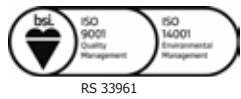


### Features

- Stainless steel heat exchanger
- Very compact design
- Two burner combustion system
- 0-10 V connections as standard
- Free commissioning by Potterton Commercial engineers
- Service plans available
- The controls can be programmed to work with solar thermal, biomass and buffer tanks

### Benefits

- Designed for maximum combustion performance and safety
- Easy to fit in confined spaces
- Spreads the heat demand across two burners, reducing wear and tear on components
- For easy BMS interface
- Ensures optimum performance, efficiency and savings
- On-going support, whenever you need it
- Sustainable, energy efficient, solution for a wide range of applications



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## Specification

### Performance

	Fuel Type		Sirius two FS 525
Output @ 80/60°C	NG	kW	475
Output @ 50/30°C	NG	kW	527
Input (Gross) Maximum	NG	kW	554.9

### Efficiency

	Value %	
Efficiency @ 80/60°C - 100% Load	% Gross	96.4
Efficiency @ 50/30°C - 30% Load	% Gross	105.4
Current Building Regulations - Part L2 Seasonal Efficiency	% Gross	97.3

### Gas

Gas Consumption (Natural Gas)	m³/h	4.5-52.4
Inlet Gas Pressure (Natural Gas - G20)	m/bar	18-20
Gas Connection Size	inch	2
Gas Connection Type	BSP	Male Threaded

### Flue

Flue Gas Volume @ 80/60°C (NG)	m³/h@STP	875
Flue Gas Volume @ 50/30°C (NG)	m³/h@STP	
Maximum Flue Gas Pressure @ Outlet	m/bar	250
Minimum Flue Gas Pressure @ Outlet	m/bar	

### Hydraulic

Water Flow Rate @ 15°C ΔT	l/s	8.4
Water Flow Rate @ 20°C ΔT	l/s	6.3
Hydraulic Resistance @ 15°C ΔT	kPa	66
Hydraulic Resistance @ 20°C ΔT	kPa	38
Water Content	Litres	43
Flow & Return Connection Type	Flanged	DN80 PN6
Flue Connection Size	mm	180
Maximum Boiler Operating Pressure	bar	6
Minimum Boiler Operating Pressure	bar	1
Maximum Flow Temperature	°C	90

### General

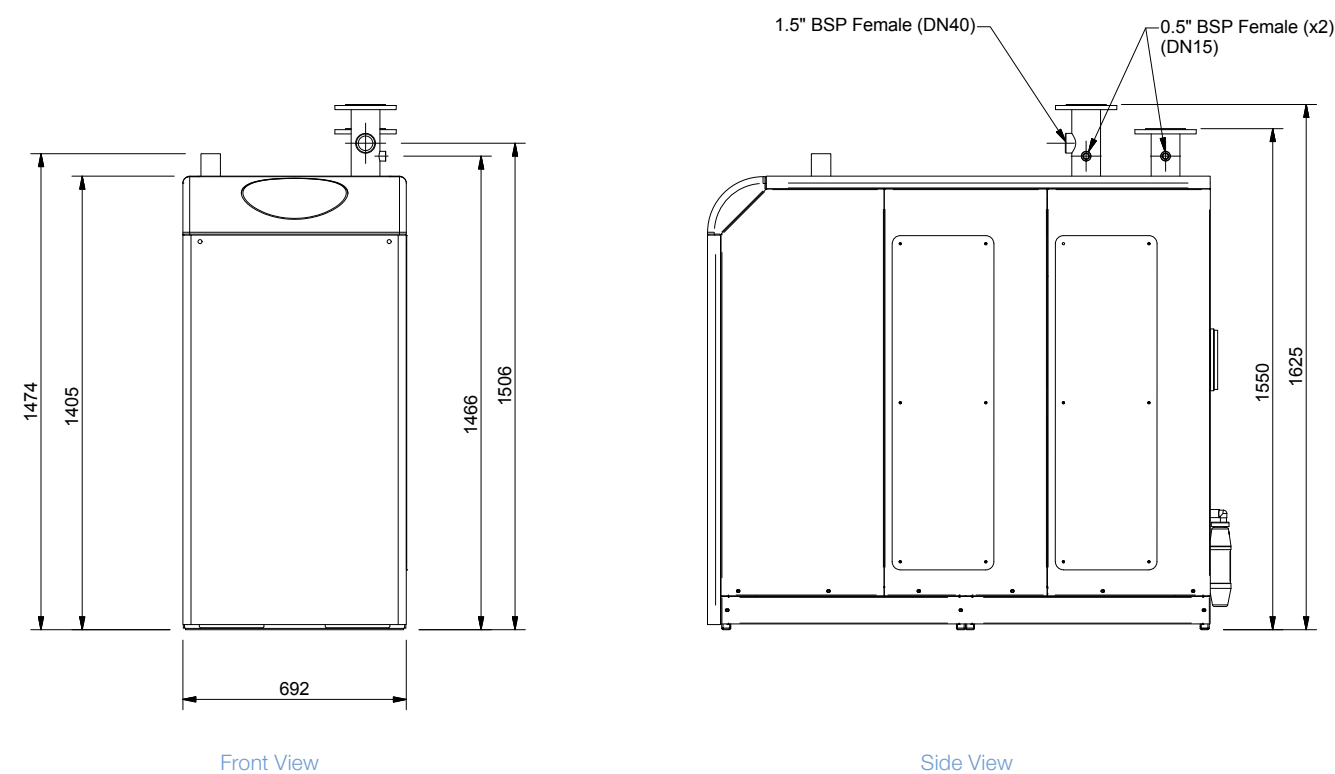
Appliance Dry Weight	Kg	424
NOx Level (Dry @ 0% O <sub>2</sub> )	mg/kWh	26 (45)
CO <sub>2</sub> Content – Natural Gas	%	9
Noise Levels @ 1 metre from unit	dB(A)	65
High Level Ventilation (BS 6644)	cm²	1,000
Low Level Ventilation (BS 6644)	cm²	2,000

### Electrical

Power Consumption (with pump)	W	322
Nominal Supply Voltage	V/Hz	230/50

## Dimensions

### Sirius FS 525kW



Sirius FS 525		
Width	mm	692
Depth	mm	1557
Height	mm	1405
Service clearance, rear	mm	600
Service clearance, right & top	mm	600
Service clearance, left	mm	400
Service clearance, front	mm	800