

Sirius FS (400)

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. Both models benefit from the latest dual burner technology, which delivers an industry-leading modulation ratio of 10:1.



Features

Stainless steel heat exchanger

Very compact design

2 burner combustion system

0-10 V connections as standard

Free commissioning by Potterton Commercial engineers

Service plans are 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

Specification

| Performance | Fuel Type | | Sirius FS 400 |
|-----------------------|-----------|----|---------------|
| Output @ 80 / 60°C | NG | kW | 368.6 |
| Output @ 50 / 30°C | NG | kW | 401 |
| Input (gross) maximum | NG | kW | 421.7 |

| Efficiency | Value (%) | | |
|--|-----------|--|------|
| Efficiency @ 50 / 30°C – 100% load | % gross | | 95 |
| Efficiency @ 50 / 30°C – 30% load | % gross | | 97.8 |
| Current building regulations – Part L2 seasonal efficiency | % gross | | 97 |

| Gas | | | |
|--------------------------------------|-------------------|--|--------------|
| Gas consumption (natural gas) | m ³ /h | | 3.5-40.0 |
| Inlet gas pressure (natural gas-G20) | mbar | | 18-20 |
| Gas connection size | inches | | 2 |
| Gas connection type | threads | | Male threads |

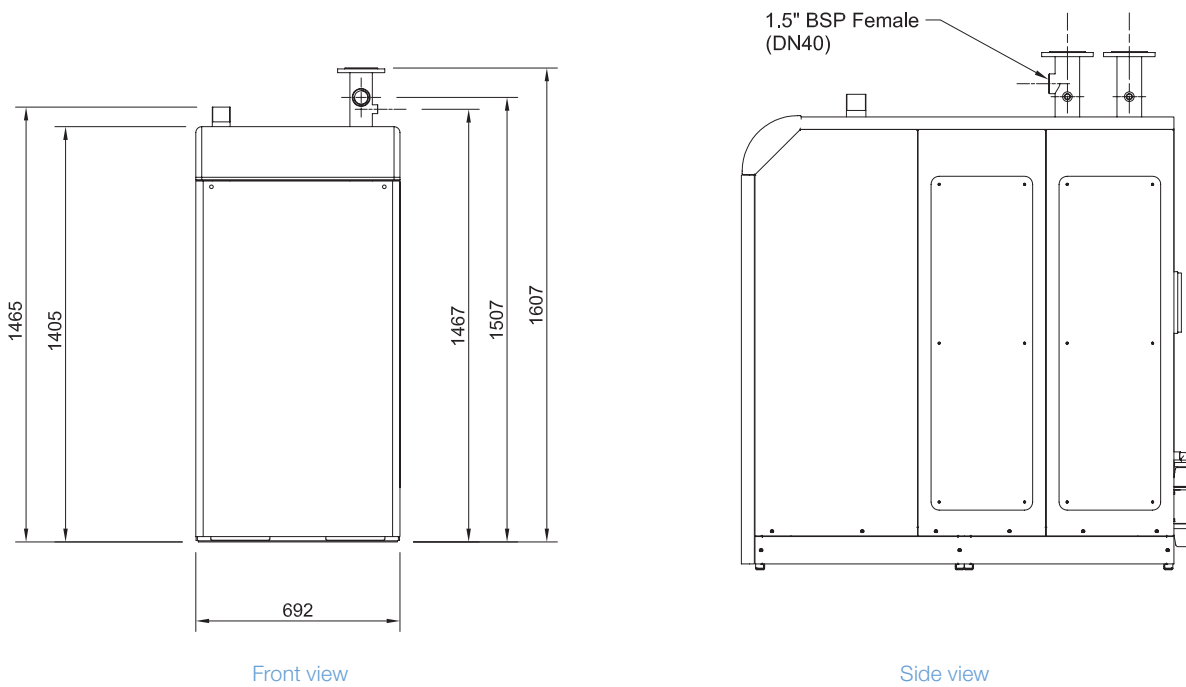
| Flue | | | |
|----------------------------------|-----------------------|--|-----|
| Flue gas volume @ 80 / 60°C (NG) | m ³ /h@STP | | 673 |
| Flue gas volume @ 50 / 30°C (NG) | m ³ /h@STP | | |
| Max flue gas pressure @ outlet | Pa | | 200 |

| Hydraulic | | | |
|--------------------------------|---------|--|----------|
| Water flow rate @ 15°C ΔT | l/s | | 6.4 |
| Water flow rate @ 20°C ΔT | l/s | | 4.8 |
| Hydraulic resistance @ 15°C ΔT | kPa | | 73 |
| Hydraulic resistance @ 20°C ΔT | kPa | | 42 |
| Water content | litres | | 30 |
| Flow & return connection type | flanged | | DN65 PN6 |
| Flue connection size | mm | | 180 |
| Max boiler operating pressure | bar | | 6 |
| Min boiler operating pressure | bar | | 1 |
| Maximum flow temperature | °C | | 90 |

| General | | | |
|--|-----------------|--|---------------|
| Appliance dry weight | kg | | 359 |
| Dimension W x D x H | mm | | 962x1341x1405 |
| NO _x level (dry @ 0% O ₂) EN15502 | mg/kWh | | 26 (45) |
| CO ₂ content – natural gas | % | | 9.0 (8.7) |
| Noise levels @ 1 metre from unit (room-sealed) | dB(A) | | 59 |
| High level ventilation* (BS 6644) | cm ² | | 760 |
| Low level ventilation* (BS 6644) | cm ² | | 1,520 |

| Electrical | | | |
|------------------------|--------|--|----------------|
| Power consumption | W | | 253 |
| Nominal supply voltage | V / Hz | | 230 V~ / 50 Hz |

Dimensions



Front view

Side view

Sirius FS
400

| | | |
|-------------|----|------|
| Width | mm | 692 |
| Height | mm | 1405 |
| Depth | mm | 1341 |
| Clearances | | |
| Front | mm | 800 |
| Left hand* | mm | 400 |
| Top | mm | 600 |
| Back | mm | 600 |
| Right hand* | mm | 600 |



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