

Paramount five

Wall-hung boiler

The new generation Paramount five is a wall-hung condensing gas boiler that's meticulously designed using the latest tried and tested technology to maximise efficiency. Manufactured to the latest ISO standards, all outputs exceed the requirements of Building Regulations Part L, delivering exceptional energy efficiency and ultra-low NO_x emissions.



Features

Available in a wide range of outputs.

Lightweight aluminium heat exchanger.

Room sealed flue.

Built-in controller.

ErP rating A.

Slimline compact design.

Weather sensor.

Compatible with renewables.

Low NO_x emissions (class 5) score maximum BREEAM points.

6:1 modulation ratio.

Supplied with LMS 14 (with Modbus Interface)

Benefits

Outputs of 30, 40, 50, 60, 80, 95 and 115kW as a single boiler and up to 460kW using a cascade kit.

The precision built one-piece heat exchanger provides reliable, highly efficient heat transfer.

Suitable for use in occupied spaces.

User friendly control panel includes operation control system status, weather compensation, timer for heating and DHW, fault diagnostics and, where relevant, cascade operation.

As with all Potterton boilers of up to 70kW, the Paramount four has an ErP rating of A as a result of its impressive efficiency.

At just 480mm wide, its slimline, lightweight design makes it the perfect choice where space is at a premium.

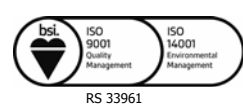
A weather sensor is included as standard, which intuitively manages boiler output according to outside conditions.

Works with combined heat and power, solar thermal buffer tanks and other supplementary heat sources.

Our emissions surpass the highest European standards, earning you extra BREEAM points.

Our impressive modulation ratio meets variable heating demands and optimises efficiencies.

For connection to Building Management Systems via BACnet or KNX



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A Baxi Heating Brand

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Specification

| Performance | Fuel Type | | Paramount five 30 | Paramount five 40 | Paramount five 50 | Paramount five 60 | Paramount five 80 | Paramount five 95 | Paramount five 115 |
|-----------------------|-----------|----|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|--------------------|
| Output @ 80 / 60°C | NG | kW | 29.2 | 36.8 | 48.7 | 56.4 | 74.9 | 92.5 | 111.7 |
| Output @ 50 / 30°C | NG | kW | 31.2 | 36.9 | 52.1 | 60.4 | 80.2 | 98.6 | 119.3 |
| Input (gross) maximum | NG | kW | 33.3 | 42.2 | 55.5 | 64.4 | 85.5 | 105.5 | 127.6 |
| Output @ 80 / 60°C | LPG | kW | 29.2 | 36.8 | 48.7 | 56.3 | 74.7 | 92.2 | 111.7 |
| Output @ 50 / 30°C | LPG | kW | 31.7 | 39.3 | 52.1 | 60.1 | 79.7 | 98.1 | 118.6 |
| Input (gross) maximum | LPG | kW | 33.3 | 42.2 | 54.3 | 64.4 | 85.5 | 105.5 | 127.6 |

| Efficiency | Value (%) | | | | | | | | |
|--|-----------|--|------|------|------|------|------|------|------|
| Efficiency @ 50 / 30°C – 100% load | % gross | | 93.7 | 87.4 | 93.9 | 93.8 | 93.8 | 93.5 | 93.5 |
| Efficiency @ 50 / 30°C – 30% load | % gross | | 97.9 | 97.8 | 97.9 | 97.8 | 97.8 | 98 | 97.8 |
| Current building regulations – Part L2 seasonal efficiency | % gross | | 97.1 | 95.3 | 95.6 | 95.7 | 96.2 | 95.8 | 95.7 |
| ErP efficiency rating | | | A | A | A | A | N/A | N/A | N/A |

| Gas | | | | | | | | | |
|--------------------------------------|---------|--|------------------|------|------|------|------|------|------|
| Gas consumption (natural gas) | m³/h | | 3.2 | 4.0 | 5.3 | 6.1 | 8.1 | 10.1 | 12.2 |
| Gas consumption (LPG) | kg/h | | 2.33 | 2.95 | 3.89 | 4.51 | 5.98 | 7.38 | 8.94 |
| Inlet gas pressure (natural gas-G20) | mbar | | 17-25 | | | | | | |
| Inlet gas pressure (LPG-G31) | mbar | | 25-45 | | | | | | |
| Gas connection size | inches | | ¾ | ¾ | 1 | 1 | 1 | 1 | 1 |
| Gas connection type | threads | | Parallel threads | | | | | | |

| Flue | | | | | | | | | |
|------------------------------------|--------------|--|------|------|------|------|-------|-------|-------|
| Flue gas volume @ 80 / 60°C (NG) | m³/hr at STP | | 46.4 | 58.8 | 77.4 | 89.7 | 119.1 | 147.1 | 177.6 |
| Flue gas volume @ 50 / 30°C (NG) | m³/hr at STP | | 49.6 | 63 | 82.8 | 96 | 127.5 | 156.8 | 189.7 |
| Flue gas volume @ 80 / 60°C (LPG) | m³/hr at STP | | 46.4 | 58.8 | 77.4 | 89.7 | 119.1 | 147.1 | 177.6 |
| Flue gas volume @ 50 / 30°C (LPG) | m³/hr at STP | | 49.6 | 63 | 82.8 | 96 | 127.5 | 156.8 | 189.7 |
| Maximum flue gas pressure @ outlet | Pa | | 110 | 110 | 110 | 110 | 110 | 150 | 180 |

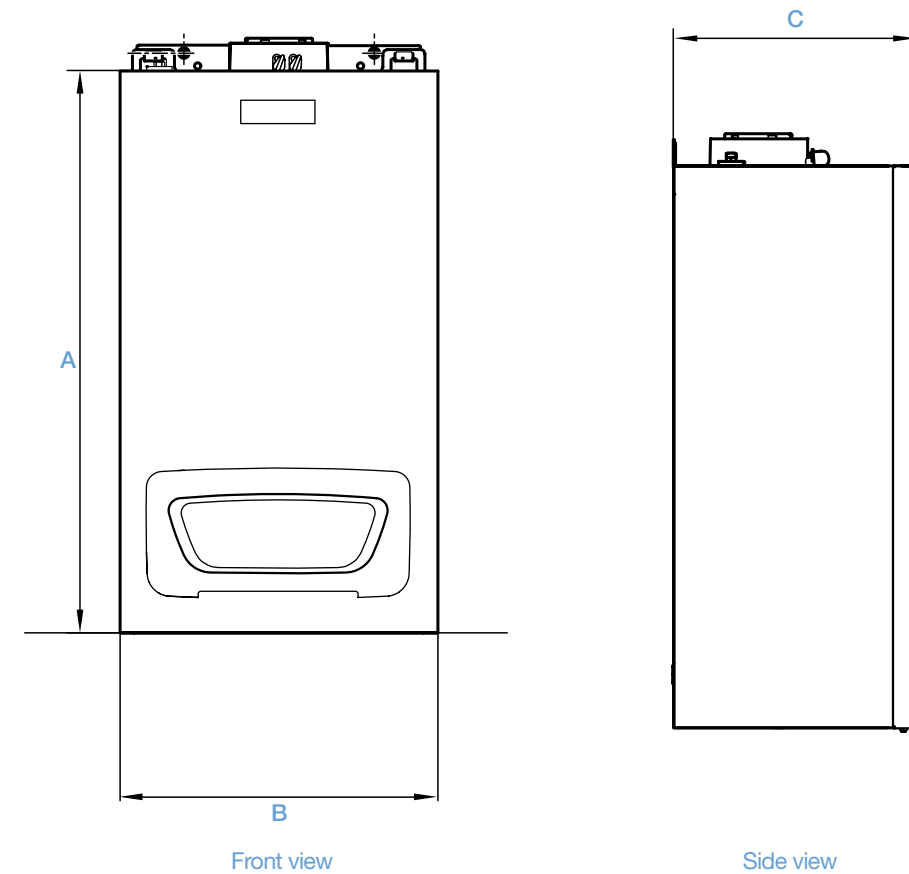
| Hydraulic | | | | | | | | | |
|-----------------------------------|---------|--|------------------|--------|---------|---------|---------|---------|---------|
| Water flow rate @ 11°C ΔT | l/s | | 0.63 | 0.8 | 1.06 | 1.22 | 1.63 | 2.01 | 2.43 |
| Water flow rate @ 20°C ΔT | l/s | | 0.35 | 0.44 | 0.91 | 0.67 | 0.89 | 1.1 | 1.34 |
| Hydraulic resistance @ 11°C ΔT | kPa | | 26.1 | 37 | 23.4 | 26.9 | 25.9 | 38.6 | 55.9 |
| Hydraulic resistance @ 20°C ΔT | kPa | | 10.4 | 14.7 | 6.2 | 6.8 | 8.5 | 12.5 | 17.8 |
| Water content | litres | | 3.6 | 3.6 | 4.7 | 4.7 | 5.8 | 7.8 | 7.8 |
| Flow & return connection size | inches | | 1 | 1 | 1½ | 1½ | 1½ | 1½ | 1½ |
| Flow & return connection type | threads | | Parallel threads | | | | | | |
| Flue connection size | mm | | 80/125 | 80/125 | 110/160 | 110/160 | 110/160 | 110/160 | 110/160 |
| Minimum boiler operating pressure | bar | | 3 | 3 | 4 | 4 | 4 | 4 | 4 |
| Maximum boiler operating pressure | bar | | 1 | | | | | | |
| Maximum flow temperature | °C | | 85 | | | | | | |

| General | | | | | | | | | |
|--|-----------------|--|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Appliance dry weight | kg | | 53 | 53 | 61 | 61 | 72 | 84 | 84 |
| Dimensions W x D x H | mm | | 480x407x852 | 480x407x852 | 480x447x852 | 480x447x852 | 480x542x852 | 480x570x852 | 480x570x852 |
| NO _x level (dry @ 0% O ₂) EN15502 | mg/kWh | | 17 | 20 | 20 | 20 | 20 | 25 | 30 |
| CO ₂ content – natural gas | % | | 8.3-8.8 | 8.3-8.8 | 8.3-8.8 | 8.3-8.8 | 8.5-9 | 8.5-9 | 8.5-9 |
| CO ₂ content – LPG | % | | 10.3-10.8 | | | | | | |
| Noise Levels @ 1 metre from unit (room-sealed) | dB(A) | | 51 | 54 | 55 | 55 | 55 | 58 | 60 |
| High level ventilation (BS 6644)* | cm ² | | 60 | 76 | 100 | 116 | 154 | 190 | 230 |
| Low level ventilation (BS 6644)* | cm ² | | 120 | 152 | 200 | 232 | 308 | 380 | 460 |

| Electrical | | | | | | | | | |
|------------------------|--------|--|---------------|----|----|----|-----|-----|-----|
| Power consumption | W | | 55 | 70 | 83 | 83 | 108 | 160 | 196 |
| Nominal supply voltage | V / Hz | | 230V~ / 50 Hz | | | | | | |

Dimensions

Paramount five 30-115kW



| | | | Paramount five 30 | Paramount five 40 | Paramount five 50 | Paramount five 60 | Paramount five 80 | Paramount five 95 | Paramount five 115 |
|-------------|------------|----|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|--------------------|
| Dimension A | Height | mm | 852 | 852 | 852 | 852 | 852 | 852 | 852 |
| Dimension B | Width | mm | 480 | 480 | 480 | 480 | 480 | 480 | 480 |
| Dimension C | Depth | mm | 407 | 407 | 447 | 447 | 542 | 570 | 570 |
| Clearances | Bottom | mm | 500 | 500 | 500 | 500 | 500 | 500 | 500 |
| | Left hand | mm | 20 | 20 | 20 | 20 | 20 | 20 | 20 |
| | Front | mm | 400 | 400 | 600 | 600 | 600 | 600 | 600 |
| | Right hand | mm | 20 | 20 | 20 | 20 | 20 | 20 | 20 |
| | Top | mm | 300 | 300 | 400 | 400 | 400 | 400 | 400 |