

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.

4.5:1 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 five 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.

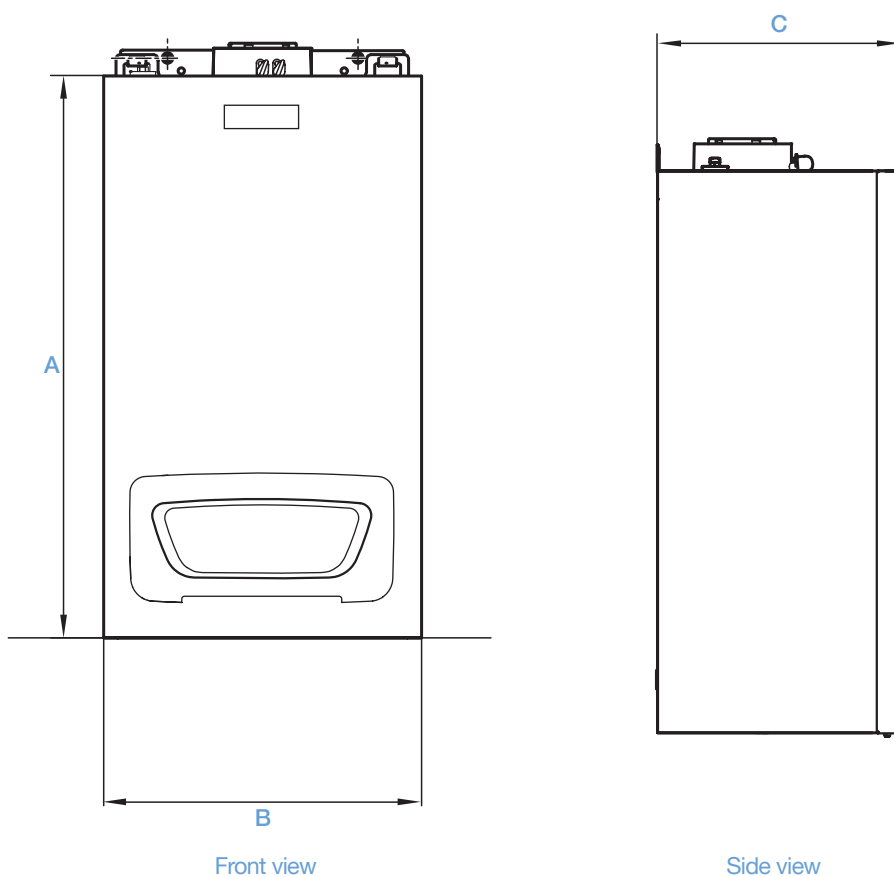
For connection to Building Management Systems via BACnet or KNX.

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	39.6	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)	m ³ /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)	m ³ /hr at STP		46.4	58.8	77.4	89.7	119.1	147.1	177.6
Flue gas volume @ 50 / 30°C (NG)	m ³ /hr at STP		49.6	63	82.8	96	127.5	156.8	189.7
Flue gas volume @ 80 / 60°C (LPG)	m ³ /hr at STP		46.4	58.8	77.4	89.7	119.1	147.1	177.6
Flue gas volume @ 50 / 30°C (LPG)	m ³ /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	0.58	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		23	23	18	21	23	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	88	100	112	170	200
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



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