Technical submittal

Products: **Purewell Variheat mk2 PV180c**
Project:
Customer: Date:

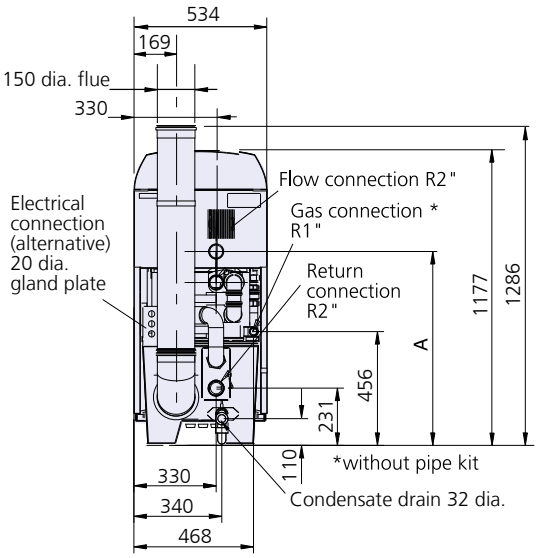
- Cast iron heat exchanger
- 3:1 turndown ratio
- 6 bar rated heat cell
- 10-year heat exchanger warranty
- 94.6% gross seasonal efficiency
- 172.8kW output @80/60°C
- Fits in a footprint of 534 x 865mm
- Passes through a standard doorway
- 37.8mg/kWh NOx emissions (natural gas)
- Noise at maximum modulation of 65dba
- Built-in controls platform with sequence control and capable of controlling up to 16 boiler modules and hot water circuits.
- Suitable for open vented and pressurised heating systems
- Volt-free contacts for remote signalling included

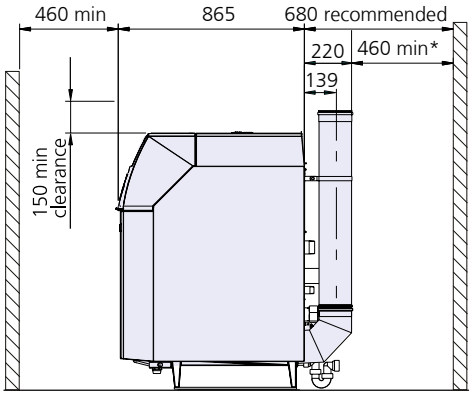


	Purewell Variheat mk2 boiler models	Units	PV180c
Energy	Building regulations - seasonal efficiency	(%) gross	94.6
	ErP efficiency rating (modules ≤ 70 kW only)		N/A
	Boiler output (non-condensing) mean 70°C - maximum	kW	172.8
	Boiler output (non-condensing) mean 70°C - minimum	kW	50.3
	Boiler output (condensing) mean 40°C - maximum	kW	180
	Boiler output (condensing) mean 40°C - minimum	kW	53.0
	Gross boiler input - maximum	kW	194.6
	Gross boiler input - minimum	kW	56.6
	Net boiler input - maximum	kW	175.2
	Net boiler input - minimum	kW	51.0
Water	Water content	litres	11
	System design flow rate @ 20°C ΔT rise	l/s	2.1
	Water side pressure loss @ 20°C ΔT rise	mbar	221
	System design flow rate @ 11°C ΔT rise	l/s	3.9
	Water side pressure loss @ 11°C ΔT rise	mbar	731
	Maximum water pressure	bar g	6
Gas	Gas flow rate natural gas (G20) - maximum	m^3/hr	18.5
	Nominal inlet pressure natural gas (G20) - maximum	mbar	20
	Maximum gas inlet pressure natural gas (G20)	mbar	25
Flue	Flue Gas Flow Rate@ 15°C, 9.5% CO_2	m^3/hr	232
	Approx. flue gas temperature @ 50/30°C	°C	50
	Approx. flue gas temperature @ 80/60°C	°C	75
	Pressure at boiler flue spigot @full load	Pa	100
	Dry NOx emission (0% excess oxygen, dry air free) European Class 6	mg/kWh	37.8
Connection	Water flow/return connections	inches	R2"
	Gas inlet connection pipe thread size	inches	R1"
	Nominal flue diameter (I/D)	mm	150
Electrics	Electrical supply		230V 1Ph 50Hz
	Power consumption @maximum	W	207
	IEC power outlet power consumption @ maximum	W	460
	Start current and run current	Amp	0.6
	Approx shipping weight	kg	250
	Noise emission @1m and @maximum boiler modulation	Max dB (A)	65
	CO_2 (±0.25%) - maximum	%	9.5
	CO_2 (±0.25%) - minimum	%	8.5

Every effort has been taken to ensure the details are accurate. Hamworthy Heating does not, however, guarantee the accuracy or completeness of any information nor does it accept liability for any errors or omissions in the information. Hamworthy Heating reserves the right to make changes and improvements which may necessitate alteration to product specification without prior notice.

Dimensions





*Rear clearance required when using Hamworthy pipe kits.

Note: Do not run trunking or pipework across the top of the boiler. Access is required top and front for servicing.

Dimensions (mm)	Ref.	PV180c
Flow connection	A	775

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