Technical submittal

Products: **Purewell Variheat mk2 PV70c**
Project:
Customer: Date:

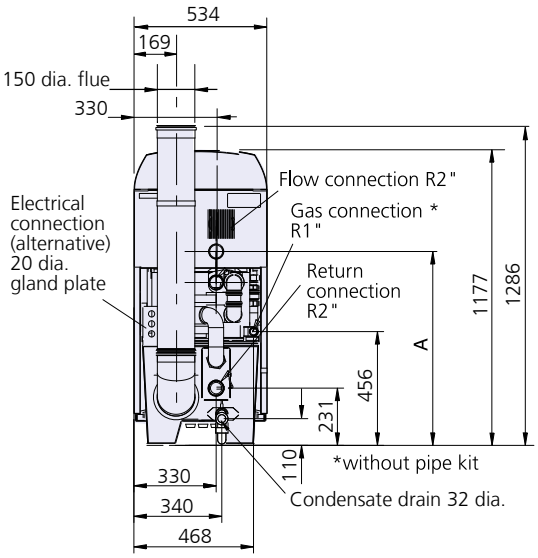
- Cast iron heat exchanger
- 3:1 turndown ratio
- 6 bar rated heat cell
- 10-year heat exchanger warranty
- 95.3% gross seasonal efficiency
- 63.5kW output @80/60°C
- Fits in a footprint of 534 x 865mm
- Passes through a standard doorway
- 21.3mg/kWh NOx emissions (natural gas)
- Noise at maximum modulation of 53dba
- Qualifies for BREEAM New Construction 2018 credits
- 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

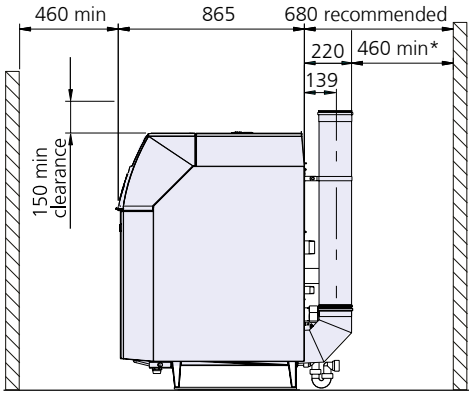
	Purewell Variheat mk2 boiler models	Units	PV70c
Energy	Building regulations - seasonal efficiency	(%) gross	95.3
	ErP efficiency rating (modules ≤ 70 kW only)		A
	Boiler output (non-condensing) mean 70°C - maximum	kW	63.5
	Boiler output (non-condensing) mean 70°C - minimum	kW	21.2
	Boiler output (condensing) mean 40°C - maximum	kW	70
	Boiler output (condensing) mean 40°C - minimum	kW	23.3
	Gross boiler input - maximum	kW	72.2
	Gross boiler input - minimum	kW	24.1
	Net boiler input - maximum	kW	65
	Net boiler input - minimum	kW	21.7
Water	Water content	litres	8
	System design flow rate @ 20°C ΔT rise	l/s	0.8
	Water side pressure loss @ 20°C ΔT rise	mbar	32
	System design flow rate @ 11°C ΔT rise	l/s	1.5
	Water side pressure loss @ 11°C ΔT rise	mbar	96
	Maximum water pressure	bar g	6
Gas	Gas flow rate natural gas (G20) - maximum	m^3/hr	6.9
	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	86
	Approx. flue gas temperature @ 50/30°C	°C	40
	Approx. flue gas temperature @ 80/60°C	°C	60
	Pressure at boiler flue spigot @full load	Pa	100
	Dry NOx emission (0% excess oxygen, dry air free) European Class 6	mg/kWh	21.3
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		230 V 1 Ph 50 Hz
	Power consumption @maximum	W	94
	IEC power outlet power consumption @ maximum	W	460
	Start current and run current	Amp	0.54
	Approx shipping weight	kg	195
	Noise emission @1 m and @maximum boiler modulation	Max dB (A)	53
	CO_2 (±0.25%) - maximum	%	9.5
	CO_2 (±0.25%) - minimum	%	9.5

Technical submittal

Products: **Purewell Variheat mk2 PV70c**
Project:
Customer: Date:

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.	PV70c
Flow connection	A	647