

Technical submittal

Products: **Purewell Variheat mk2 PV110c**

Project:

Customer:

Date:

- ⤵ Cast iron heat exchanger
- ⤵ 3:1 turndown ratio
- ⤵ 6 bar rated heat cell
- ⤵ 10-year heat exchanger warranty
- ⤵ 95.8% gross seasonal efficiency
- ⤵ 99.8kW output @80/60°C
- ⤵ Fits in a footprint of 534 x 865mm
- ⤵ Passes through a standard doorway
- ⤵ 39.1mg/kWh NOx emissions (natural gas)
- ⤵ Noise at maximum modulation of 53dba
- ⤵ 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	PV110c
Energy	Building regulations - seasonal efficiency	(%) gross	95.8
	ErP efficiency rating (modules ≤ 70 kW only)		N/A
	Boiler output (non-condensing) mean 70°C - maximum	kW	99.8
	Boiler output (non-condensing) mean 70°C - minimum	kW	33.3
	Boiler output (condensing) mean 40°C - maximum	kW	110
	Boiler output (condensing) mean 40°C - minimum	kW	36.37
	Gross boiler input - maximum	kW	115
	Gross boiler input - minimum	kW	38.3
	Net boiler input - maximum	kW	103.5
	Net boiler input - minimum	kW	34.5
Water	Water content	litres	8
	System design flow rate @ 20°C ΔT rise	l/s	1.3
	Water side pressure loss @ 20°C ΔT rise	mbar	72
	System design flow rate @ 11°C ΔT rise	l/s	2.4
	Water side pressure loss @ 11°C ΔT rise	mbar	244
	Maximum water pressure	bar g	6
Gas	Gas flow rate natural gas (G20) - maximum	m³/hr	10.9
	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	m³/hr	137
	Approx. flue gas temperature @ 50/30°C	°C	45
	Approx. flue gas temperature @ 80/60°C	°C	65
	Pressure at boiler flue spigot @full load	Pa	100
	Dry NOx emission (0% excess oxygen, dry air free) European Class 6	mg/kWh	39.1
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 1 Ph 50Hz
	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 @1m and @maximum boiler modulation	Max dB (A)	53
	CO ₂ (±0.25%) - maximum	%	9.5
	CO ₂ (±0.25%) - minimum	%	9.5



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Dimensions

