

# Technical submittal

Products: **Purewell Variheat mk2 PV95c**

Project:

Customer:

Date:

- ⤵ Cast iron heat exchanger
- ⤵ 3:1 turndown ratio
- ⤵ 6 bar rated heat cell
- ⤵ 10-year heat exchanger warranty
- ⤵ 95.6% gross seasonal efficiency
- ⤵ 86.3kW output @80/60°C
- ⤵ Fits in a footprint of 534 x 865mm
- ⤵ Passes through a standard doorway
- ⤵ 31.1mg/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      | PV95c           |
|------------|--------------------------------------------------------------------|------------|-----------------|
| Energy     | Building regulations - seasonal efficiency                         | (%) gross  | 95.6            |
|            | ErP efficiency rating (modules ≤ 70 kW only)                       |            | N/A             |
|            | Boiler output (non-condensing) mean 70°C - maximum                 | kW         | 86.3            |
|            | Boiler output (non-condensing) mean 70°C - minimum                 | kW         | 28.8            |
|            | Boiler output (condensing) mean 40°C - maximum                     | kW         | 95              |
|            | Boiler output (condensing) mean 40°C - minimum                     | kW         | 31.67           |
|            | Gross boiler input - maximum                                       | kW         | 98.4            |
|            | Gross boiler input - minimum                                       | kW         | 26.7            |
|            | Net boiler input - maximum                                         | kW         | 88.6            |
|            | Net boiler input - minimum                                         | kW         | 29.6            |
| Water      | Water content                                                      | litres     | 8               |
|            | System design flow rate @ 20°C ΔT rise                             | l/s        | 1.1             |
|            | Water side pressure loss @ 20°C ΔT rise                            | mbar       | 52              |
|            | System design flow rate @ 11°C ΔT rise                             | l/s        | 2.1             |
|            | Water side pressure loss @ 11°C ΔT rise                            | mbar       | 176             |
| Gas        | Maximum water pressure                                             | bar g      | 6               |
|            | Gas flow rate natural gas (G20) - maximum                          | m³/hr      | 9.4             |
|            | Nominal inlet pressure natural gas (G20) - maximum                 | mbar       | 20              |
| Flue       | Maximum gas inlet pressure natural gas (G20)                       | mbar       | 25              |
|            | Flue Gas Flow Rate@ 15°C, 9.5% CO <sub>2</sub>                     | m³/hr      | 117             |
|            | 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             |
| Connection | Dry NOx emission (0% excess oxygen, dry air free) European Class 6 | mg/kWh     | 31.1            |
|            | Water flow/return connections                                      | inches     | R2"             |
|            | Gas inlet connection pipe thread size                              | inches     | R1"             |
| Electrics  | Nominal flue diameter (I/D)                                        | mm         | 150             |
|            | Electrical supply                                                  |            | 230V 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 @1m and @maximum boiler modulation                  | Max dB (A) | 53              |
|            | CO <sub>2</sub> (±0.25%) - maximum                                 | %          | 9.5             |
|            | CO <sub>2</sub> (±0.25%) - minimum                                 | %          | 9.5             |



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## Dimensions

