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| Boiler Type : | P320 - 9 |
| Issue Date : | June 2012 |



TECHNICAL SPECIFICATION SHEET

Quick reference specification sheet full details can be found in the P320 series Installation/Service guide.

General Details

Corrosion resistant cast iron sectional boiler, jointed by conical nipples and ceramic rope, designed with three passes for high efficiency and low NOx emission. Large insulated door (hinged left or right) allowing easy access for cleaning. Powder coated enamel steel casing c/w fibreglass insulation. All of the P320 Boiler Range can be supplied un-assembled or pre-assembled for delivery to site. CE approved. Boiler Efficiency data to 92/42-EEC

| MODEL : P320 | | No of SECTIONS : 9 | |
|--------------------------------|------------------------|--|---------------|
| Rated Output kW : | 280 - 330 | Efficiency % : NCV Full load ⁽³⁾ | 88 |
| Weight (dry) kgs : | 1228 | Seasonal Efficiency : % GCV | 84.2 |
| Overall Dim WxHxD mm : | 796 x 1387 x 1791 | | |
| Radiated Losses % : * | 0.09 | | |
| BURNER TYPE | | Pressure Jet | |
| Fuel Available : | Nat Gas | Oil (35sec) | Dual Fuel |
| Fuel Consumption: | Check burner details | 31.77 Kg/hr ## | |
| Noise levels dB(A) : | Check burner details | | |
| Min Op Gas Press mbar : | Check burner details | | |
| HYDRAULICS | | | |
| Water Content ltrs : | 196 | Min Return Temp °C | 50 |
| Resist @ 11°C Δt mbar : | 119 | Connection Size : | 2½" Fl angled |
| Resist @ 20°C Δt mbar : | 35.93 | Std Operating Temp °C : | 80 |
| Nom Flow Rate @ 11° C Δt l/s : | 7.17 | Max Operating Temp °C : | 90 |
| Nom Flow Rate @ 20° C Δt l/s : | 3.94 | High Limit Set Point °C : | 110 |
| Min Flow Rate l/s : # | 1.75 | | |
| Max Op Press bars : | 6 | | |
| Test Press bar : | As per Assembly Manual | | |
| FLUE | | | |
| Diameter mm : | 200 | Flue Gas Flow kgs/hr Gas : ⁽¹⁾ | 588 |
| Flue Type : | Conventional | Flue Gas Flow kgs/hr Oil : ⁽¹⁾ | 560 |
| Chamber Resist. mbar : | + 2.5 | Flue Gas Temperature °C : ⁽²⁾ | <210 |
| ELECTRICAL | | | |
| Voltage : | 230.1.50 | Note: 1ph burners obtain their power supply via the boiler. 3ph burners require a 3ph supply + a 1ph to the boiler. | |
| Fuse rating amps : | 10Amp | | |
| CONTROL OPERATION | | | |
| Standard : | On / Off Thermostat | Temperature indication | L/O lamp |
| | High limit Thermostat | Volt free run/lock indication | On/Off switch |
| | High / Low | 3 Position Switch Auto/Man/Test | 10amp CB |
| Optional : | Hours Run Meters | | |
| | Modulating | | |

(1) Boiler at full output average temperature 80/60°C (70°C mean)

(2) Boiler temperature: 80 °C, Ambient temperature: 20 °C

(3) 70°C average temperature

* Maintenance consumption refer to boiler installation/service manual

Based on Δt of 45°C

@ 12 bar pump pressure

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