

Quick reference specification sheet, full details can be found in the P520 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 P520 boiler range are supplied un-assembled for delivery to site. CE approved. Boiler efficiency data to 92/42-EEC. +

# P 520

# 19

TECHNICAL  
SPECIFICATION  
SHEET

June 2016

| OVERVIEW                         |                    |
|----------------------------------|--------------------|
| MODEL : P520                     |                    |
| Rated Output kW                  | 1044 - 1102        |
| Weight (dry) kgs                 | 4124               |
| Overall Dim WxHxD mm             | 1172 x 1760 x 2645 |
| Radiated Losses % *              | 0.07               |
| Efficiency % : NCV Full load (3) | 90                 |
| Seasonal Efficiency : % GCV      | 84.5               |

| BURNER TYPE - PRESSURE JET |                      |
|----------------------------|----------------------|
| Fuel Available             | Nat Gas              |
| Fuel Consumption : max     | Check Burner details |
| Noise levels dB (A)        | Check Burner details |
| Min op Gas Press bar       | Check Burner details |

| FLUE/AIR INLET                 |              |
|--------------------------------|--------------|
| Diameter mm                    | 400          |
| Flue type                      | Conventional |
| Chamber Resist. mbar           | + 2.85       |
| Flue Gas Flow kgs/hr Gas : (1) | 1590         |
| Flue Gas Flow kgs/hr Oil : (1) | 1520         |
| Flue Gas Temperature °C : (2)  | <190         |

| CONTROLS/OPTIONS  |   |
|---|---|
| <p>STANDARD -</p> <ul style="list-style-type: none"> <li>On / Off Thermostat</li> <li>High limit Thermostat</li> <li>High / Low Indication</li> <li>temperature indication</li> <li>Volt free run/lock indication</li> <li>3 Positions switch auto/man/test</li> <li>L/O lamp</li> <li>On/Off switch</li> <li>10amp CB</li> </ul> | <p>OPTIONAL -</p> <ul style="list-style-type: none"> <li>Hours run meters</li> <li>Modulating (via burner)</li> </ul> |

| HYDRAULICS               |                         |
|--------------------------|-------------------------|
| Water Content ltrs       | 845                     |
| Resistance @ 11°C mbar   | 34.39                   |
| Resistance @ 20°C mbar   | 10.4                    |
| Nom Flow Rate @ 11°C l/s | 23.93                   |
| Nom Flow Rate @ 20°C l/s | 13.16                   |
| Min flow Rate l/s : #    | 5.83                    |
| Max Op Press bars        | As per technical manual |
| Test Press bars          | As per Assembly Manual  |
| Min Return temps °C      | 50                      |
| Connection size (weld)   | 159                     |
| Std Operating Temp       | 80                      |
| Max Operating Temp       | 90                      |
| High limit Set Point °C  | 110                     |

| ELECTRICAL  |                       |
|---|-----------------------|
| Volatge   | 230.1.50              |
| Fuse rating amps  | 10Amp Circuit Breaker |
| <p>Note: 1ph burners obtain their power supply via the boiler.<br/>3ph burners require a 3ph supply + a 1ph to the boiler</p> |                       |

(1) Boiler at full output average temperature 80/30 C (70 °C mean)  
 (2) With boiler temperature: 80 °C and ambient temperature: 20 °C  
 (3) 70 °C mean temperature  
 \* Maintenance consumption refer to boiler installation/service manual  
 # Based delta t of 45 °C between the boiler and the room temperature  
 ## @ 12 bar pump pressure