

<b>Boiler Type :</b>	<b>P520 – 13</b>
<b>Issue Date :</b>	<b>June 2012</b>



## TECHNICAL SPECIFICATION SHEET

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

<b>MODEL : P520</b>		<b>No of SECTIONS : 13</b>	
Rated Output kW :	696 - 754	Efficiency % : NCV Full load (	90.7
Weight (dry) kgs :	3000	Seasonal Efficiency % GCV	84.1
Overall Dim WxHxD mm :	1172x1760x1955		
Radiated Losses % :*	0.08		
<b>BURNER TYPE</b>		<b>Pressure Jet</b>	
Fuel Available :	Nat Gas	Oil (35 sec)	Dual Fuel
Fuel Consumption :	Check burner details	71.01 Kgs/hr ##	
Noise levels dB(A) :	Check burner details		
Min Op Gas Press mbar :	Check burner details		
<b>HYDRAULICS</b>			
Water Content ltrs :	617	Min Return Temp °C	50
Resistance @ 11°C Δt mbar :	47.53	Connection Size mm (Weld):	140
Resistance @ 20°C Δt mbar :	14.4	Std Operating Temp °C :	80
Nom Flow Rate @ 11° C Δt l/s :	16.37	Max Operating Temp °C :	90
Nom Flow Rate @ 20° C Δt l/s :	9.01	High Limit Set Point °C :	110
Min Flow Rate l/s : #	3.98		
Max Op Press bars :	As per Technical Manual		
Test Press bar :	As per Assembly Manual		
<b>FLUE</b>			
Diameter mm :	350	Flue Gas Flow kgs/hr Gas : (1)	1120
Flue Type :	Conventional	Flue Gas Flow kgs/hr Oil : (1)	1070
Chamber Resist. mbar :	+ 2.2	Flue Gas Temp °C : (1)(2)	<190
<b>ELECTRICAL</b>			
Voltage :	230.1.50	<b>Note: 1ph burners obtain their power supply via the boiler.</b>	
Fuse rating amps :	10Amp Circuit Breaker	<b>3ph burners require a 3ph supply + a 1ph to the boiler.</b>	
<b>CONTROL OPERATION</b>			
<b>Standard :</b>	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
<b>Optional :</b>	Modulating (via burner)		
	Hours Run Meters		

(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 @ 30° delta t - refer to boiler installation/service manual

# Based on Δt of 45°C, ## @ 12 bar pump pressure

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