

Boiler Type :	P420 - 8
Issue Date :	June 2012



TECHNICAL SPECIFICATION SHEET

Quick reference specification sheet full details can be found in the P420 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 P420 Boiler Range are supplied un-assembled for delivery to site.

CE approved. Boiler Efficiency data to 92/42-EEC

MODEL : P420		No of SECTIONS : 8	
Rated Output kW :	300 - 390	Efficiency % : NCV Full load ⁽³⁾	88
Weight (dry) kgs :	As per Technical Manual	Seasonal Efficiency : % GCV	82.2 (Avg)
Overall Dim WxHxD mm :	1000 x 1690 x 1800		
Radiated Losses W : *	315		
BURNER TYPE Pressure Jet			
Fuel Available :	Nat Gas	Oil (35sec)	Dual Fuel
Fuel Consumption:	Check burner details	37.56 Kg/hr ##	
Noise levels dB(A) :	Check burner details		
Min Op Gas Press mbar :	Check burner details		
HYDRAULICS			
Water Content ltrs :	366	Min Return Temp °C	50
Resist @ 11°C Δt mbar :	26.43	Connection Size :	2½"
Resist @ 20°C Δt mbar :	8	Std Operating Temp °C :	80
Nom Flow Rate @ 11° C Δt l/s :	8.47	Max Operating Temp °C :	90
Nom Flow Rate @ 20° C Δt l/s :	4.66	High Limit Set Point °C :	110
Min Flow Rate l/s : #	2.06		
Max Op Press bars :	6		
Test Press bar :	As per Assembly Manual		
FLUE			
Diameter mm :	250	Flue Gas Flow kgs/hr Gas : ⁽¹⁾	700
Flue Type :	Conventional	Flue Gas Flow kgs/hr Oil : ⁽¹⁾	650
Chamber Resist. mbar :	1.1	Flue Gas Temperature °C : ⁽²⁾	<220
ELECTRICAL			
Voltage :	230.1.50	Note: 1ph burners obtain their power supply via the boiler.	
Fuse rating amps :	10Amp	3ph burners require a 3ph supply + a 1ph to the boiler.	
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(via burner)		

(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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