

**Product Series** 310-5 ECO**Issue Date :** June 2010

## TECHNICAL SPECIFICATION SHEET

**MODEL : Gas 310-5 ECO****No of SECTIONS : 5****General Details**

Fully condensing floor standing boiler supplied c/w electronic temperature and safety controls. Sectional cast aluminium heat exchanger. Powder coated, enamel steel casing. Ultra low Nox. Nox levels according to EN483 and EN 15420 (EN297 A3)

On/off, high/low or fully modulating (20-100%), pre - mix burner, gas/air ratio control for maximum efficiency and minimum emissions. Boiler fitted with casters for ease of positioning within plant room.

Intelligent "abc<sup>®</sup>" boiler control system c/w numerical display providing operating and service parameters. Manufactured to ISO 9001. CE approved and supplied pre-assembled.

Output @ 80/60°C kW :	51 – 261	Annual Efficiency %NCV (Hi) :	108.9
Weight (dry) kgs :	360	Min Gas Pressure mbar :	17
Overall Dim WxHxD mm :	1590x1410x720	Max Gas Pressure mbar :	30
Radiated Losses % :	< 0.3	Casing Colour BS RAL :	Red 2002 Grey 9023

<b>BURNER TYPE</b>	Pre-mix	Low Nox Atmospheric	
Std Fuel Available :	Natural Gas	Gas Conn. Size BSP :	2" (F)
Flame Protection :	Ionisation	NOx Level @ O% O2 :	34
Noise Levels dB(A)@1M :	< 60	Gas Compsumption M <sup>3</sup> /h :	29 NG
Ignition :	Electronic		

<b>HYDRAULICS</b>			
Nom Flow @ 11°C Δt l/s :	5.68	Resistance @ 11°C Δt. mb :	374 (37.4 kPa)
Nom Flow @ 20°C Δt l/s :	3.12	Resistance @ 20°C Δt. mb:	113 (11.3 kPa)
Min Return Temp °C	20	Min Flow Rate l/s :	#
Op Press min/max bars :	0.3 / 6 open vent	Std Operating Temp °C :	20 – 90
Op Press min/max bars :	0.8 / 6 pressurised	High Limit Temp °C :	110
Test Press bar :	6	Boiler Conns Flanged :	Flow 80mm Return 65mm Both Flanged NW 80 DIN 2576 - (PN16)
Condensate Conn. mm:	1½" nb plastic	2 <sup>nd</sup> Return Conn Flanged (Option) :	NW 65 DIN 2576 – (PN16)
Water Content ltrs :	49		

<b>FLUE/ AIR INLET</b>			
Supplied as standard for conventional flue with optional kit for room sealed operation			

Residue Fan Duty Pa :	150	Air Inlet Conn mm :	250 i/d
Flue Diameter mm :	250 i/d	Min Flue Gas Mass kgs/hr :	91
Min Flue Gas Temp @ 80/60°C :	57	Max Flue Gas Mass kgs/hr :	453
Max Flue Gas Temp @ 80/60°C :	65		

**ELECTRICAL**

Insulation Class IP :	20	Power Supply :	230.1.50
Start Current Amps :	4	Run Current Amps :	1.4
Fuse Rating Amps :	6.3	Power Consumption VA :	12 / 303
Modulating input V dc :	0-10	Controls Voltage V ac :	24 (max 4VA)

**CONTROLS**

Standard :	High / Low Manual o/ride High limit protection Operating status indication Volt free common alarm and boiler run indication Safety interlock control pair (24V ac)	BMS Modulating (20-100%) Hours Run Indication Low water protection	On / Off
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# For a continuous supply of heat, the boiler requires a minimum flow of 30% of the relevant design temperatures.

Ours is a policy of continuous development, we therefore reserve the right to alter specifications without prior notification.