

Product Series **610 ECO/2x9****Issue Date :** **OCT 2006**

TECHNICAL SPECIFICATION SHEET

MODEL : Gas 610 ECO**No of SECTIONS : 2x9**

General Details

Fully condensing pre-assembled floor standing boiler consisting of 2 individual modules within one casing and a common flue gas outlet. Boiler supplied c/w electronic temperature and safety controls.

Sectional cast aluminium heat exchangers. Powder coated, enamel steel casing.

Ultra low Nox, on/off, high/low or fully modulating (30-100%), 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[®]" 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 :	148 – 1062	Annual Efficiency %NCV (Hi) :	108.9
Weight (dry) kgs :	1120	Min Gas Pressure mbar :	17
Overall Dim WxHxD mm :	1980x1410x1450	Max Gas Pressure mbar :	30
Radiated Losses % :	< 0.3	Casing Colour BS RAL :	Red 2002 Grey 9023

BURNER TYPE	Pre-mix	Low Nox Atmospheric	
Std Fuel Available :	Natural Gas	Gas Conn. Size BSP :	2 x 2" (F)
Flame Protection :	Ionisation	NOx Level ppm @ O% O2 :	< 35
Noise Levels dB(A)@1M :	< 63	Seasonal Nox Level mg/kWh : #	< 39
Ignition :	Electronic	Gas Consumption M ³ /h :	114 NG

HYDRAULICS			
Nom Flow @ 11°C Δt l/s :	2 x 11.55	Resistance @ 11°C Δt. mb :	413 (41.3 kPa)
Nom Flow @ 20°C Δt l/s :	2 x 6.35	Resistance @ 20°C Δt. mb:	125 (12.5 kPa)
Min Return Temp °C	20	Min Flow Rate l/s :	None
Op Press min/max bars :	0.8 / 6 pressurised or pumped systems	Std Operating Temp °C :	20 – 90
		High Limit Temp °C :	110
Test Press bar :	6	Boiler Conns Flanged :	2 x Flow 80mm, 2 x Return 65mm both Flanged NW 80 DIN 2576 – (PN16)
Condensate Conn. mm:	2 x 1¼" nb plastic	2 nd Return Conn Flanged (Option) :	2 x NW 65 DIN 2576 – (PN16)
Water Content ltrs :	186		

FLUE/ AIR INLET			
Supplied as standard for conventional flue with optional kit for room sealed operation			
Residue Fan Duty Pa :	150	Air Inlet Conn mm :	2 x 250 i/d
Flue Diameter mm :	350 i/d	Air Inlet Conn Room Sealed mm:	350 i/d
Min Flue Gas Temp @ 80/60°C :	57	Min Flue Gas Mass kgs/hr :	257
Max Flue Gas Temp @ 80/60°C :	65	Max Flue Gas Mass kgs/hr :	1814

ELECTRICAL			
Insulation Class IP :	20	Power Supply :	2 x 230.1.50
Start Current Amps :	2 x 4	Run Current Amps :	2 x 3.8
Fuse Rating Amps :	2 x 10	Power Consumption VA :	24 / 1684
Modulating input V dc :	2 x 0-10	Controls Voltage V ac :	2 x 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 (30-100%) Hours Run Indication Low water protection	On / Off

Dependant on operation & method of boiler control/modulation rate.

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

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