

**Product Series**      **610 ECO/2x7****Issue Date :**            **June 2010**

## TECHNICAL SPECIFICATION SHEET

**MODEL : Gas 610 ECO****No of SECTIONS : 2x7****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,

Nox levels according to EN483 and EN 15420 (EN297 A3)

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<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 :	123 – 790	Annual Efficiency %NCV (Hi) :	108.9
Weight (dry) kgs :	920	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

<b>BURNER TYPE</b>	<b>Pre-mix</b>	<b>Low Nox Atmospheric</b>	
Std Fuel Available :	Natural Gas	Gas Conn. Size BSP :	2 x 2" (F)
Flame Protection :	Ionisation	NOx Level @ 0% O <sub>2</sub> :	32 mg/kWh
Noise Levels dB(A)@1M :	< 63	Gas Consumption M <sup>3</sup> /h :	86 NG
Ignition :	Electronic		

**HYDRAULICS**

Nom Flow @ 11°C Δt l/s :	2 x 8.59	Resistance @ 11°C Δt. mb :	397 (39.7 kPa)
Nom Flow @ 20°C Δt l/s :	2 x 4.72	Resistance @ 20°C Δt. mb:	120 (12.0 kPa)
Min Return Temp °C	20	Min Flow Rate l/s :	#
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 DIN 2576 - (PN16)
Condensate Conn. mm:	2 x 1 1/4" nb plastic	2 <sup>nd</sup> Return Conn Flanged (Option) :	2 x NW 65 DIN 2576 – (PN16)
Water Content ltrs :	142		

**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 :	215
Max Flue Gas Temp @ 80/60°C :	65	Max Flue Gas Mass kgs/hr :	1360

**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 / 980
Modulating input V dc :	2 x 0-10	Controls Voltage V ac :	2 x 24 (max 4VA)

**CONTROLS**

Standard :	High / Low	BMS Modulating (30-100%)	On / Off
	Manual o/ride	Hours Run Indication	
	High limit protection	Low water protection	
	Operating status indication		
	Volt free common alarm and boiler run indication		
	Safety interlock control pair (24V ac)		

# For a continuous supply of heat, the boiler requires a minimum flow of 30% of the relevant design temperature

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