

Product Series 210-160 ECO PRO**Issue Date :** July 2008

TECHNICAL SPECIFICATION SHEET

MODEL : Gas 210-160 ECO Pro**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 forming sealed air box. Ultra low Nox, on / off, high / low or fully modulating (18-100%), pre - mix burner, gas/air ratio control for maximum efficiency and minimum emissions. Nox levels according to EN483 and EN 15420 (EN297 A3) 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 :	29 - 166	Efficiency % GCV :	> 95
Weight (dry) kgs :	165	Min/Max Gas Pressure mbar :	17 / 30 NG
Overall Dim WxHxD mm :	1190x1309x450	Casing Colour BS RAL :	2002 Red & 7037 Grey
Radiated Losses % :	< 0.1		

BURNER TYPE			
	Pre-mix	Low Nox Atmospheric	
Std Fuel Available :	Natural Gas	Gas Conn. size BSP :	1¼" M
Flame Protection :	Ionisation	Nox Emission dry @ 0% O₂ :	38 mg/kWh
Noise Levels dB(A) :	≤ 57	Gas Consumption M³/h:	18 NG
Ignition :	Electronic	Gas Consumption M³/h:	6.6 LPG

HYDRAULICS			
Water Content ltrs :	20	Resistance @ 11°C Δt.mb :	562/56.2 kpa
Nom Flow @ 11°C Δt l/s :	3.60	Resistance @ 20°C Δt. mb:	170/17 kpa
Min Return Temp °C	20	Min Flow Rate l/s :	*
Op Press min/max bars :	0.8 / 6 pressurised	Std Operating Temp °C:	20 - 90
Test press bar :	6	Max Operating Temp °C	100
Condense Conn. mm:	32 o/d	Boiler Connections BSP	1¼" M
		2nd Return Conn BSP :	1¼" M (option)

FLUE/ AIR INLET

Supplied as standard for conventional flue with optional kit for room sealed operation

Residue Fan Duty Pa :	130	Min. Flue Gas Mass kgs/hr :	49.5
Flue Diameter mm :	150 i/d	Max. Flue Gas Mass kgs/hr :	286
Air Inlet Connection mm :	150 i/d		

ELECTRICAL			
Insulation Class IP :	20	Power Supply :	230V/1Ph/50Hz
Start Current amps :	-	Power Consumption W :	4 / 206
Fuse Rating Amps :	6.3 (F-6.3AT)	Controls Voltage V ac :	24 (max 4VA)
Modulating input V dc :	0-10		

CONTROLS

Standard : On / Off - Modulating - Manual o/ride - Hours Run Indication
High limit protection - Low water protection - Operating status indication

Optional : BMS Modulating (10-100%) & Lockout status (when PCB IF-01 is used)
Safety interlocks, run / lockout signal, control enhancement (when PCB SCU-SO1 is used) Cascade controller for upto 4 boilers (when MC4 is used) Celcia 20 Compensator (two wire communicating modulating) Rematic Optimising / Compensator (two wire communicating modulating) DHW Timcontrol when using Rematic controller. Flue Damper.

* For a continuous supply of heat, the boiler requires a minimum flow of 30% of the relevant design temperatures.