

Product Series 210-80 ECO PRO**Issue Date :** July 2008

TECHNICAL SPECIFICATION SHEET

MODEL : Gas 210-80 ECO Pro**No of SECTIONS : 3**

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 :	16 - 87	Efficiency % GCV :	> 95
Weight (dry) kgs :	115	Min/Max Gas Pressure mbar:	17 - 30
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 : 33 mg/kWh
Noise Levels dB(A) :	≤ 57		Gas Consumption M³/h: 9.4 NG
Ignition :	Electronic		Gas Consumption M³/h: 3.5 LPG

HYDRAULICS			
Water Content ltrs :	12	Resistance @ 11°C Δt.mb :	545/54.5 kpa
Nom Flow @ 11°C Δt l/s :	1.89	Resistance @ 20°C Δt. mb:	165/65 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
Condensate 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 :	27.2
Flue Diameter mm :	150 i/d	Max Flue Gas Mass kgs/hr :	149.7
Air Inlet Connection mm :	150 i/d		

ELECTRICAL			
Insulation Class IP :	20	Power Supply :	230V/1Ph/50H
Start Current amps :	-	Power Consumption W :	4 / 125
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 (20 -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 up to 4 boilers (when MC4 is used) Celcia 20 Compensator (two wire communicating modulating) Rematic Optimising / Compensator (two wire communicating modulating)DHW Time control 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.