

Product Series	110 ECO - 115
Issue Date :	July 2008



TECHNICAL SPECIFICATION SHEET

MODEL : Gas 110 ECO 115 **No of Sections: One piece casting**

General Details

Fully condensing floor standing boiler supplied c/w electronic temperature and safety controls. One piece cast aluminium heat exchanger. Powder coated, enamel steel casing forming sealed air box. On / off, high / low or fully modulating (18-100%), pre - mix burner, gas/air ratio control for maximum efficiency and minimum emissions. Ultra low Nox, 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 :	16.6 - 107	Efficiency % GCV :	> 96
Weight (dry) kgs :	133	Min/Max Gas Pressure mbar:	17 - 30
Overall Dim WxHxD mm :	600x1322x770	Casing Colour BS RAL :	De Dietrich White & 2002 Red
Radiated Losses % :	< 0.1		

BURNER TYPE	Pre-mix	Low Nox	
Std Fuel Available :	Natural Gas	Gas Conn. size BSP :	3/4" M
Opt Fuel Available :	LPG(sept 08)	Nox Level dry @ 0% O2 :	35 mg/kwh
Flame Protection :	Ionisation	Gas Consumption M³/h:	11.7 NG
Noise Levels dB(A) :	< 52.5	Propane Consumption Kg/h:	TBA
Ignition :	Electronic		

HYDRAULICS			
Nom Flow @ 11°C Δt l/s :	2.32	Resistance @ 11°C Δt.mb :	830/83kpa
Nom Flow @ 20°C Δt l/s :	1.28	Resistance @ 20°C Δt. mb:	230/23 kpa
Water Content ltrs :	7.5	Min Flow Rate l/s :	#
Op Press min/max bars :	0.5 / 4 open vent	Std Operating Temp °C :	20 - 90
Op Press min/max bars :	0.8 / 4 pressurised	Max Operating Temp °C :	90
Test Press bar :	4	Min Return Temp °C	20
Condensate Conn. mm:	25 o/d	Boiler Connections BSP :	1¼"

FLUE/ AIR INLET			
Concentric connection supplied as Standard for conventional or room sealed operation (twin pipe option)			
Residue Fan Duty Pa :	250	Flue concentric :	100/150 i/d
Flue Diameter mm :	100 i/d	Air Inlet Connection mm :	100 i/d Twin Pipe
Min Flue Gas Mass kgs/hr	29	Max Flue Gas Mass kgs/hr	178

ELECTRICAL			
Insulation Class IP :	21	Power Supply : V/Hz	230/50
Controls Voltage V ac :	24 (max 4VA)	Run Current without pump, amps:	1.0
Fuse Rating Amps :	6.3 (F-6.3AT)	Power Consumption W :	40/ 240
Modulating input V dc :	0-10	Pump Power consumption W:	190

CONTROLS	
Standard :	On / Off - High / Low - Manual o/ride - Hours Run Indication High limit protection 110 °C - Low water protection - Operating status indication Volt free common alarm and boiler run indication - Safety interlock control pair (24V ac)
Optional :	BMS Modulating, Rematic Optimising / Compensator (two wire communicating modulating control) DHW Time control using Rematic control Celcia 20 Compensator (two wire communicating modulating) MC4 Cascade controller c/w Celcia 20 (upto 4 boilers) Flue Damper (for modular flue applications)

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.©