

Boiler Type :	Gas 310 Eco Pro 500
Issue Date :	July 2014



TECHNICAL SPECIFICATION SHEET

This is a quick reference specification sheet, full details can be found in the Gas 310 Eco Pro installation and Service guide via www.remeha.co.uk/documents

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. Ultra low NOx, on/off, or fully modulating (20-100%), 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, easy to dismantle for ease of installation. NOx levels according to EN483 and EN 15420 (EN297 A3).

MODEL : Gas 310 ECO Pro 500		No of SECTIONS : 8	
Rated Output kW (80/60°c) :	92 - 461	SBEM Seasonal Efficiency %: GCV⁽¹⁾	95.98
Rated Output kW (50/30°c) :	497	Min/Max Gas pressure mbar :	17 - 100
Weight (dry) kgs :	495	Radiated Losses % ⁽²⁾ :	0.13
Overall Dim WxDxH mm :	716 x 2172 x 1500		

BURNER TYPE Pre mix			
Std Fuel Available :	Natural Gas	Gas Connection size BSP :	2" (F)
Fuel Consumption M³/h :	49.6 (Max)	Acoustic level dB(A) at 1 metre ⁽³⁾ :	55.7
Flame Protection :	Ionisation	NOx (Dry, 0% O₂) Mg/kW :	29
Ignition :	Electronic		

HYDRAULICS			
Water Content ltrs :	82	Connection Size Flanged : ##	NW 80
Resistance @ 11°C Δt mbar:	364	Std Operating Temp °C :	20 - 90
Resistance @ 20°C Δt mbar :	110	Max Operating Temp °C :	90
Nom Flow Rate @ 11° C Δt l/s :	10.02	High Limit Set Point °C :	110
Nom Flow Rate @ 20° C Δt l/s :	5.52	Max operating pressure bar :	7
Min Flow Rate l/s :	#	Min operating pressure bar :	0.8
Condensate Connection :	1 1/4"		

FLUE/AIR INLET		Standard conventional	
Flue diameter mm I/D :	250	Mass flue gas flow rate kgs/hr :	160 – 789
Air inlet diameter mm I/D :	250	Flue Gas Temperature @ 80/60 °C :	30 - 80
Residual Fan Duty Pa :	150		

ELECTRICAL			
Power Supply :	230v – 1ph – 50hz	Fuse Rating amps :	10
Power Consumption W :	6 - 543	Controls Voltage :	24 (max 4va)
Modulating input V dc :	0 - 10	Insulation Class IP :	X1B
Start Current amps :	4	Run Current amps :	3.8

CONTROL OPERATION			
Standard :	On/Off 0-10v dc Open Therm High limit protection Low water protection Volt free common alarm	Manual o/ride Modulating (20 - 100%) Safety interlocks Hours run indication Boiler run indication	
Optional :	Optimising / Compensators > Second return > Gas leak Detection > Water Pressure Switch > Air Inlet Filter >	For multiple and single boiler 65mm Flanged 80mm PN16 Option fitted to gas valve System pressure Connects to boiler air supply	
Main Options			
Contact Sales Dept for more details			

(1) In accordance with the Non Domestic Building Services Compliance Guide 2013 Edition – for use in England

(2) At 30°c ΔT = Boiler temp – Ambient temp (without heat exchanger insulation kit)

(3) For room sealed operation

For a continuous supply of heat the boiler requires a minimum flow of 30% of the design flow rate

Flow 80mm Return 65mm both Flanged NW 80 DIN 2576 – (PN16)