

Boiler Type :	Gas 310 Eco Pro 285
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 285		No of SECTIONS : 5	
Rated Output kW (80/60°C) :	51 - 261	SBEM Seasonal Efficiency %: GCV ⁽¹⁾	96.52
Rated Output kW (50/30°C) :	279	Min/Max Gas pressure mbar :	17 - 30
Weight (dry) kgs :	364	Radiated Losses % ⁽²⁾ :	0.21
Overall Dim WxDxH mm :	716 x 1862 x 1500		
BURNER TYPE Pre mix			
Std Fuel Available :	Natural Gas	Gas Connection size BSP :	2" (F)
Fuel Consumption M ³ /h :	28.1 (Max)	Acoustic level dB(A) at 1 metre ⁽³⁾ :	55.7
Flame Protection :	Ionisation	NOx (Dry, 0% O ₂) Mg/kWh :	33
Ignition :	Electronic		
HYDRAULICS			
Water Content ltrs :	49	Connection Size Flanged : ##	NW 80
Resistance @ 11°C Δt mbar :	374	Std Operating Temp °C :	20 - 90
Resistance @ 20°C Δt mbar :	113	Max Operating Temp °C :	90
Nom Flow Rate @ 11° C Δt l/s :	5.68	High Limit Set Point °C :	110
Nom Flow Rate @ 20° C Δt l/s :	3.12	Max operating pressure bar :	7
Min Flow Rate l/s :	#	Min operating pressure bar :	0.8
Condensate Connection :	1¼"		
FLUE/AIR INLET Standard = conventional			
Flue diameter mm I/D :	250	Mass flue gas flow rate kgs/hr :	91 - 448
Air inlet diameter mm I/D :	250	Flue Gas Temperature @ 80/60 °C :	30 - 80
Residual Fan Duty Pa :	130		
ELECTRICAL			
Power Supply :	230v – 1ph – 50hz	Fuse Rating amps :	10
Power Consumption W :	6 - 279	Controls Voltage :	24 (max 4va)
Modulating input V dc :	0 -10	Insulation Class IP :	X1B
Start Current amps :	4	Run Current amps :	1.4
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	

⁽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)