

# GAS 310 ECO PRO 500

TECHNICAL SPECIFICATION SHEET

August 2019

This is a quick reference specification sheet, full details can be found in the Gas 310 Eco Pro installation and service guide via [remeha.co.uk/documents](http://remeha.co.uk/documents).

## OVERVIEW

MODEL : Gas 310 Eco Pro 500	
Rated Output kW (80/60°C)	92 - 461
Rated Output kW (50/30°C)	497
Weight (dry) kgs	495
Overall Dim WxDxH mm	716 x 2172 x 1500
SBEM Seasonal Efficiency % GCV	96.09
Efficiency-Full Load 100% NCV: (²)	98.3
Efficiency-Part Load 30% NCV: (³)	108.6
stand-by Heat Loss % : (*)	0.13

## BURNER TYPE PRE MIX

Std Fuel Available	Natural Gas
Fuel Consumption M³/h	49.6 (max)
Flame protection	Ionisation
Ignition	Electronic
Gas connection size BSP	2" (F)
Acoustic level dB (A) at 1 metre (**)	56
NOx (Dry, 0% O2) Mg/KWh	29
Min/Max Gas pressure mbar	17 - 100

## FLUE/AIR INLET

Flue diameter mm I/D	250
Air inlet diameter mm I/D	250
Residual fan duty Pa	150
Mass flue gas flow rate kg/hr	160 - 789
Flue gas temperature @ 80/60°C	30 - 80

## CONTROLS/OPTIONS

<b>STANDARD -</b> On/Off 0-10v dc, Open Therm High limit protection Low water protection Volt free common alarm Manual override Modulating (20 - 100%, avg.) Safety interlocks Hours run indication Boiler run indication	<b>OPTIONS -</b> Optimising/Compensators for multiple and single boilers Gas leak detection option fitted to gas valve Water Press Switch - for system pressure Second return 65mm Flanged 80mm PN16 Air Inlet Filter connects to boiler air supply
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## HYDRAULICS

Water Content ltrs	82
Resistance @ 11°C mbar	364
Resistance @ 20°C mbar	110
Nom Flow Rate @ 11°C l/s	10.03
Nom Flow Rate @ 20°C l/s	5.51
Min flow Rate m3/h	5.9
Condensate connection	1 1/4"
Connection size flanged (#)	NW 80
Std operating temp °C	20 - 90
Max operating temp °C	90
High limit set point °C	110
Max operating pressure bar	7
Min operating pressure bar	0.8

## ELECTRICAL

Power supply	230v - 1ph - 50hz
Power consumption W	6 - 543
Modulating input V dc	0 - 10
Start current amps	NA
Fuse rating amps	10
Controls voltage	24 (max)
Insulation class IP	X1B
Run current amps	NA

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

(2) @ 80/60 oC Nett (EN 92/42)

(3) @ 30 oC Nett (EN 92/42)

In accordance with EU 813 & 814 / 2013 Eco design regulations

(\*) (EN15420) @ 30 °C T = Boiler temperature - ambient temperature (without heat exchanger insulation kit)

(\*\*) Maximum for room sealed operation

(#) Flow 80mm return 65mm both flanged NW 80 DIN 2576 - (PN16)

GAR (EU) 2016/426 EN: 15502-1 & EN: 15502-2.1

BED 92/42/EEC EN: 15502-1 & EN: 15502-2.1

EMC 2014/30/EU

LVD 2014/35/EU

ErP 2009/125/EC