

GAS 310 ECO PRO 430

TECHNICAL SPECIFICATION SHEET

October 2017

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

OVERVIEW

MODEL : Gas 310 Eco Pro 430	7 sections
Rated Output kW (80/60°C)	79 - 395
Rated Output kW (50/30°C)	425
Weight (dry) kgs	433
Overall Dim WxDxH mm	716 x 1862 x 1500
SBEM Seasonal Efficiency % GCV ⁽¹⁾	96.58
Efficiency-Full Load 100% NCV: ⁽²⁾	98.2
Efficiency-Part Load 30% NCV: ⁽³⁾	108.8
stand-by Heat Loss % : ^(*)	0.15

BURNER TYPE PRE MIX

Std Fuel Available	Natural gas
Fuel Consumption M ³ /h	42.5 (max)
Flame protection	Ionisation
Ignition	Electronic
Gas connection size BSP	2" (F)
Acoustic level dB (A) at 1 metre ^(**)	56
NO _x (Dry, 0% O ₂) Mg/KWh	32
Min/Max Gas pressure mbar	17 - 100

CONCENTRIC FLUE/AIR INLET

Flue diameter mm I/D	250
Air inlet diameter mm I/D	250
Residual fan duty Pa	130
Mass flue gas flow rate kg/hr	138-676
Flue gas temperature @ 80/60°C	30 - 80

CONTROLS/OPTIONS

STANDARD - 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	OPTIONS - 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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ERP DATA - ECO DESIGN

Useful Efficiency full load GCV % ⁽⁴⁾	88.4
Useful Efficiency Part load GCV % ⁽⁴⁾	98.5
Sound Power Level L _{wa} indoors dB	73

HYDRAULICS

Water Content ltrs	71
Resistance @ 11°C mbar	397
Resistance @ 20°C mbar	120
Nom Flow Rate @ 11°C l/s	8.59
Nom Flow Rate @ 20°C l/s	4.72
Min flow Rate m ³ /h	5.1
Condensate Outlet (mm) I/D	32
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 - 1 ph - 50hz
Power consumption W	6 - 426
Modulating input V dc	0 - 10
Start current amps	4
Fuse rating amps	10
Controls voltage	24 (max 4va)
Insulation class IP	X1B
Run current amps	1.4

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

(2) @ 80/60 °C Nett (EN 92/42)

(3) @ 30 °C Nett (EN 92/42)

(4) 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)