

Gas 620 Ace - 710

technical data sheet.

Date: Sept 2023

This is a quick reference technical data sheet, full details can be found within the GAS 320 / 620 ACE installation and user manual 7734324 - v.07 - 21092022 via remeha.co.uk

Overview

MODEL: GAS 620 ACE 710	CE ID No: 0063CU3937
Rated Output (80/60°C)	86.7 - 656.3 kW
Rated Output (50/30°C)	700.6 kW
Weight (dry) (without packaging)	775 kgs
Overall Dim WxHxD	1442x1726x1862mm
No of sections:	2x6
SBEM Seasonal Efficiency %: GCV ⁽¹⁾	96.34 %
Efficiency - Full Load 100%: NCV ⁽³⁾	98.1 %
Efficiency - Part Load 30%: NCV ⁽⁴⁾	109.0 %
Stand-by Heat Loss: *	958 W

Burner type pre mix

Standard Fuel Available	Natural Gas
Fuel Consumption (max) NG	70.5 m ³ /h
Fuel Consumption (max) LPG	N/A
Flame Protection	Ionisation
Ignition	Electronic
Acoustic level at 1 metre	58.1dB(A)
Optional Fuel (*)	N/A
Gas Connection size BSP	2" (M)
Min/Max Gas pressure - NG	17-25 mbar
Min/Max Gas pressure - LPG	N/A
NOx Annual Emissions**** EN15502 - NG (Class 6)	43 mg/kWh (dry, 0% O ₂)
NOx BREEAM Annual***** Emissions - NG	16 mg/kWh (dry, 0% O ₂)

Concentric flue/air inlet

Flue diameter I/D	350 mm
Air inlet diameter I/D †	250 / 350 mm (optional)
Mass flue gas flow rate	153-1121 kg/hr
Flue gas temperature	30 - 61°C
Maximum counter pressure	120 Pa

Standard Controls –

SCB-01 provides two volt free contacts for status notification, 0 - 10v connection for PWM system pump.

SCB-02 provides functionality for a DHW and central heating zone.

Gateway GTW - 22 provides functionality to connect a boiler to an app via bluetooth.

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

(2) In accordance with EU 813 & 814 / 2013 Eco Design Regulations

(3) @ 80/60 °C Nett (EN 92/42)

(4) @ 30 °C nett (EN 92/42)

Erp Data: ^Energy Label / ^^Eco Design

Seasonal Space Efficiency % ⁽²⁾	N/A
Energy Efficiency Class ⁽²⁾	N/A
Sound Power Levels Lwa	NA Above 400kW ErP
Annual Energy Consumption	N/A
Useful Efficiency - Full Load (GCV)% ⁽²⁾	NA Above 400kW ErP
Useful Efficiency - Part Load (GCV)% ⁽²⁾	NA Above 400kW ErP

Hydraulics

Water contents	60 ltrs per module
Resistance @ 11°C	364mbar (36.4kPA)per module
Resistance @ 20°C	110mbar (11.0kPA)per module
Nominal Flow Rate @ 11°C	7.1 l/s (25.5 m ³ /h) per module
Nominal Flow Rate @ 20°C	3.9 l/s (13.9 m ³ /h) per module
Condensate Connection	32 mm OD
Flow Connection PN10	DN80 Flanged per module
Return Connection PN10**	DN80 Flanged per module
Standard Operating Temp.***	20-90 °C
Maximum Operating Temp.	90 °C
High Limit Set Point	110 °C
Maximum operating pressure	7 bar
Minimum operating pressure	0.8 bar
Minimum operating pressure (o/v)	N/A (Sealed System Only)

Electrical

Power Supply	230v - 1ph - 50hz x 2
Power Consumption	9-345 W per module
Fuse Rating amps (Main)	10 AT x 2
Fuse Rating CB01	6.3 AT x 2
Fuse Rating CU-GH13	1.6 AT x 2
Controls Voltage	24 v (max 4va) per module
Insulation Class IP	X1

* With optional insulation kit.

** **Important** The return flanged connection is DN80 however, the inner bore of the return flange is DN65. If fitting a butterfly valve or similar please ensure a spool piece is first fitted to avoid the valve fouling the inner DN65 mm bore of the return flange.

*** Important When operating above the 25K dT (Parameter GP021) the boiler will restrict the maximum flow temperature to 80 deg C.

**** NOx emissions with standard factory settings G20 EN15502

***** NOx emissions set to BREEAM settings at commissioning G20 EN15502.

† 350mm Air Supply Manifold (Optional)