

Gas 620 Ace 1000

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 1000	CE ID No: 0063CU3937
Rated Output (80/60°C)	122.3-922.1kW
Rated Output (50/30°C)	994.3kW
Weight (dry) (without packaging)	961 kgs
Overall Dim WxHxD	1442x1726x2172 mm
No of sections:	2x8
SBEM Seasonal Efficiency %: GCV ⁽¹⁾	96.05 %
Efficiency - Full Load 100%: NCV ⁽³⁾	98.3 %
Efficiency - Part Load 30%: NCV ⁽⁴⁾	108.6 %
Stand-by Heat Loss: *	1016 W

Burner type pre mix	
Standard Fuel Available	Natural Gas
Fuel Consumption (max) NG	99.3 m ³ /h
Fuel Consumption (max) LPG	N/A
Flame Protection	Ionisation
Ignition	Electronic
Acoustic level at 1 metre	57.8 dB(A)
Optional Fuel	N/A
Gas Connection size BSP	2" (M) per module
Min/Max Gas pressure - NG	17-25 mbar
Min/Max Gas pressure - LPG	N/A
NOx Annual Emissions **** EN15502 - NG (Class 6)	45 mg/kWh (dry, 0% O ₂)
NOx BREEAM Annual ***** Emissions - NG	17 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	214-1579 kg/hr
Flue gas temperature	30-63 °C
Maximum counter pressure	150 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 400 kW ErP
Annual Energy Consumption	N/A
Useful Efficiency - Full Load (GCV)% ⁽²⁾	NA Above 400 kW ErP
Useful Efficiency - Part Load (GCV)% ⁽²⁾	NA Above 400 kW ErP

Hydraulics	
Water contents litres	82 per module
Resistance @ 11°C mbar	364 (36.4 kPa) per module
Resistance @ 20°C mbar	110 (11.0 kPa) per module
Nominal Flow Rate @ 11°C l/s	10.0 l/s /36.0 m ³ /h per module
Nominal Flow Rate @ 20°C l/s	5.4 l/s / 19.6 m ³ /h per module
Condensate Connection	32 mm per module
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	10-576 W per module
Fuse Rating amps (Main)	10 AT x 2
Fuse Rating CB-01	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)