

Gas 320⁺ 650

TECHNICAL SPECIFICATION SHEET

October 2020

This is a quick reference specification sheet, full details can be found in the Gas 320 / 620 ACE installation/service guide via remeha.co.uk/documents.

OVERVIEW

MODEL : Gas 320 - 650	CE: 0063CU3937
Rated Output kW (80/60°C)	118.7 - 600.9
Rated Output kW (50/30°C)	651.5
Weight (dry) kgs	570
Overall Dim WxHxD mm	707 x 1550 x 2172
No of sections:	10
SBEM - Efficiency GCV	95.66
Efficiency Full Load 100%: NCV	98.5
Efficiency Part Load 30%: NCV	108.1
Stand-by Heat Loss W* :	537

BURNER TYPE PRE MIX

Std Fuel Available	Natural Gas
Fuel Consumption M ³ /h	64.6 NG max
Fuel Consumption M ³ /h LPG	Not Available
Flame Protection	Ionisation
Ignition	Electronic
Noise level dB(A) at 1 metre	64.8
Optional Fuel	Not Available
LGP adjustment (*)	Not Available
Gas Connection size BSP	2" (M)
Min/Max Gas pressure mbar	17 - 25
NOx annual emissions EN15502****	47 mg/kWh
NOx annual emissions BREEAM*****	18 mg/kWh

FLUE/AIR INLET

Flue diameter mm I/D	250
Air inlet diameter mm I/D	250
Mass flue gas flow rate kg/hr	205 - 1027
Flue gas temperature °C	30-65
Maximum counter pressure PA	150

CONTROLS/OPTIONS

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.

ERP DATA - ECO DESIGN

Useful Efficiency - Full Load (GCV)%	NA Above 400kW ErP
Useful Efficiency - Part Load (GCV)%	NA Above 400kW ErP
Sound Power Levels Lwa Indoors dB	NA Above 400kW ErP

HYDRAULICS

Water contents ltrs	104
Resistance @ 11°C mbar	435 (43.5Kpa)
Resistance @ 20°C mbar	130 (13Kpa)
Nom Flow Rate @ 11° C l/s	13.0
Nom Flow Rate @ 20° C l/s	7.1
Condensate Connection	32mm
Flow Connection PN10	DN80 Flanged
Return Connection PN10**	DN80 Flanged**
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	1
Sealed System Only.	

ELECTRICAL

Power Supply	230v - 1ph - 50hz
Power Consumption W	10 - 720
Fuse Rating amps (Main)	10 AT
Fuse Rating CB-01	6.3 AT
Fuse Rating CU-GH	1.6 AT
Controls Voltage	24 (max 4va)
Insulation Class IP	X1

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

* With optional Insulation Kit.

** Important The return flange 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 bore of the DN65 bore of the return flange.

*** Important When operating above the 25K dT (Parameters GPO21) the boiler will restrict the maximum operating temperature to 80 deg C.

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

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