

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](http://remeha.co.uk/documents).

# Gas 320<sup>+</sup> 500

TECHNICAL  
SPECIFICATION  
SHEET

March 2021

## OVERVIEW

MODEL : Gas 320 - 500	CE: 0063CU3937
Rated Output kW (80/60°C)	91.5 - 461.0
Rated Output kW (50/30°C)	497.1
Weight (dry) kgs (without packaging)	497
Overall Dim WxHxD mm	707 x 1550 x 2172
No of sections:	8
SBEM - Efficiency GCV (1)	96.05
Efficiency Full Load 100%: NCV	98.3
Efficiency Part Load 30%: NCV	108.6
Stand-by Heat Loss W *:	508

## BURNER TYPE PRE MIX

Std Fuel Available	Natural Gas
Fuel Consumption M3/h	49.6 NG max G20
Fuel Consumption M3/h LPG	Not Available
Flame Protection	Ionisation
Ignition	Electronic
Noise level dB(A) at 1 metre LpA	55.7
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****	45 mg/kWh
NOx annual emissions BREEAM*****	17 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	160 - 790
Flue gas temperature °C	30-63
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	82
Resistance @ 11°C mbar	364 (36.4kPA)
Resistance @ 20°C mbar	110 (11kPA)
Nom Flow Rate @ 11°C l/s	9.9
Nom Flow Rate @ 20°C l/s	5.5
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 - 576
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 GP021) 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.