

# Gas 320<sup>+</sup> 285

## TECHNICAL SPECIFICATION SHEET

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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).

## OVERVIEW

|                                |                  |
|--------------------------------|------------------|
| MODEL : Gas 320 - 285          | CE: 0063CU3937   |
| Rated Output kW (80/60°C)      | 51.1 - 260.7     |
| Rated Output kW (50/30°C)      | 278.8            |
| Weight (dry) kgs               | 366              |
| Overall Dim WxHxD mm           | 707 x1550 x 1862 |
| No of sections:                | 5                |
| SBEM - Efficiency GCV          | 96.38            |
| Efficiency Full Load 100%: NCV | 98.0             |
| Efficiency Part Load 30%: NCV  | 109.2            |
| Stand-by Heat Loss W*:         | 464              |

## BURNER TYPE PRE MIX

|  |               |
|--|---------------|
| Std Fuel Available                     | Natural Gas   |
| Fuel Consumption M <sup>3</sup> /h     | 28.1 NG max   |
| Fuel Consumption M <sup>3</sup> /h LPG | Not Available |
| Flame Protection                       | Ionisation    |
| Ignition                               | Electronic    |
| Noise level dB(A) at 1 metre LpA       | 61.2          |
| Optional Fuel                          | Not Available |
| Gas Connection size BSP                | 2" (M)        |
| Min/Max Gas pressure mbar              | 17 - 25       |
| NOx annual emissions EN15502****       | 43 mg/kWh     |
| NOx annual emissions BREEAM*****       | 15 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 | 91 - 448 |
| Flue gas temperature °C       | 30-60    |
| Maximum counter pressure PA   | 130      |

## 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)% | 88.3 |
| Useful Efficiency - Part Load (GCV)% | 98.4 |
| Sound Power Levels Lwa Indoors dB    | 78   |
|                                      |      |
|                                      |      |
|                                      |      |

## HYDRAULICS

|                            |                 |
|----------------------------|-----------------|
| Water contents ltrs        | 49              |
| Resistance @ 11°C mbar     | 374 (37.4Kpa)   |
| Resistance @ 20°C mbar     | 113 (11.3Kpa)   |
| Nom Flow Rate @ 11° C l/s  | 5.6             |
| Nom Flow Rate @ 20° C l/s  | 3.1             |
| 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 - 280          |
| Fuse Rating amps ( Main) | 10 AT             |
| Fuse Rating CB01         | 6.3AT             |
| Fuse Rating CU-GH        | 1.6AT             |
| 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 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.