

Gas 220 Ace 160

technical data sheet.

Date: Sept 2023

This is a quick reference technical data sheet, full details can be found within the GAS 220 ACE installation and user manual 7665063 - v.10 - 09122022 via remeha.co.uk

Overview	
MODEL: GAS 220 ACE 160	CE ID No: 0063CQ3781
Rated Output (80/60°C)	152.1 kW
Rated Output (50/30°C)	161.6 kW
Weight (dry inc packaging)	235 kgs
Overall Dim WxHxD	800x1662x657 mm
No of sections:1 piece casting	Caste Aluminum Monoblock
SBEM Seasonal Efficiency %: GCV ⁽¹⁾	95.9 %
Efficiency - Full Load 100%: NCV ⁽⁴⁾	97.5 %
Efficiency - Part Load 30%: NCV ⁽⁵⁾	108.5 %
Stand-by Heat Loss:	0.191kW

Burner type pre mix	
Standard Fuel Available	Natural Gas
Fuel Consumption (max) NG	16.5 m ³ /h
Fuel Consumption (max) LPG	6.3 m ³ /h
Flame Protection	Ionisation
Ignition	Electronic
Acoustic level at 1 metre	58.7 dB(A)
Optional Fuel (*)	Propane
Gas Connection size BSP	1" (M)
Min/Max Gas pressure - NG	17-25 mbar
Min/Max Gas pressure - LPG	37-50 mbar
BREEAM (EN15502) - NG†	22 mg/kWh (dry, 0% O ₂) (Class 6)
NOx Annual Emissions	
NOx Annual Emissions - NG	35 mg/kWh(dry, 0% O ₂)

Concentric flue/air inlet	
Flue diameter I/D	150 mm
Air inlet diameter I/D	150 mm
Mass flue gas flow rate	57-277 kg/hr
Flue gas temperature	32-66 °C
Maximum counter pressure	200 Pa

Standard –

- On/Off, 0-10v dc, Open Therm, R-Bus
- High limit protection and low water protection
- Volt free common alarm and boiler run indication
- Manual Override
- Two Safety Interlocks
- Hours run indication

Optional –

- Optimising compensator for single and multiple boilers
- Cascade kits - multiple boiler pipework kits
- Low loss headers

Erp Data: ^Energy Label / ^^Eco Design	
Seasonal Space Efficiency % ⁽²⁾	N/A
Energy Efficiency Class ⁽²⁾	N/A
Sound Power Levels Lwa	67 dB^ (indoors)
Annual Energy Consumption	N/A
Useful Efficiency - Full Load (GCV)% ⁽³⁾	87.8^
Useful Efficiency - Part Load (GCV)% ⁽³⁾	97.8^

Hydraulics	
Water contents	17 ltrs
Resistance @ 15°C	338 mbar
Resistance @ 20°C	190 mbar
Nominal Flow Rate @ 15°C	2.43 l/s
Nominal Flow Rate @ 20°C	1.81 l/s
Condensate Connection	40 mm OD
Flow Connection Size BSP	1 1/4"(M)
Return Connection Size BSP	1 1/4"(M)
Standard Operating Temp.	20-90°C (**)
Maximum Operating Temp.	90 °C (**)
High Limit Set Point	110 °C (**)
Maximum operating pressure	5 bar
Minimum operating pressure	0.8 bar
Minimum operating pressure (o/v)	N/A (Sealed System Only)

Electrical	
Power Supply	230v - 1ph - 50hz
Power Consumption	5.3 - 275 W
Modulating input	0-10 v dc
Fuse Rating (CB-01)	6.3 amps
Fuse Rating (CU-GH06c)	1.6 amps
Controls Voltage	24 v (max 4va)
Insulation Class IP	X1B

- 1) In accordance with the Non Domestic Building Services Compliance Guide 2013 Edition- For use in England
- 2) In accordance with EU 811 & 812 / 2013 Energy Labeling Regulations
- 3) In accordance with EU 813 & 814 / 2013 Eco Design Regulations
- 4) @ 80/60°C Nett (EN 92/42)
- 5) @ 30°C Nett (EN 92/42)

†As per commissioning instructions

(*) See installation and service manual GAR (EU) 2016/426 BED 92/42/EEC

EMC 2014/30/EU
LVD 2014/35/EU
ErP 2009/125/EC