

Gas 220 Ace 300

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 - 0912022 via remeha.co.uk

Overview	
MODEL: GAS 220 ACE 300	CE ID No: 0063CQ3781
Rated Output (80/60°C)	290.9 kW
Rated Output (50/30°C)	310.7 kW
Weight (dry incl packaging)	275 kgs
Overall Dim WxHxD	800x1662x657 mm
No of sections:1 piece casting	Cast Aluminum Monoblock
SBEM Seasonal Efficiency %: GCV ⁽¹⁾	95.8 %
Efficiency - Full Load 100%: NCV ⁽⁴⁾	97.3 %
Efficiency - Part Load 30%: NCV ⁽⁵⁾	108.4 %
Stand-by Heat Loss:	0.267 kW

Burner type pre mix	
Standard Fuel Available	Natural Gas
Fuel Consumption (max) NG	31.6 m ³ /h
Fuel Consumption (max) LPG	12.2 m ³ /h
Flame Protection	Ionisation
Ignition	Electronic
Acoustic level at 1 metre	63.8 dB(A)
Optional Fuel (*)	Propane
Gas Connection size BSP	1 1/2" (M)
Min/Max Gas pressure - NG	17-25 mbar
Min/Max Gas pressure - LPG	37-50 mbar
BREEAM (EN 15502)	
NOx Annual Emissions - NG	35 mg/kWh (dry, 0% O ₂) (Class 6)
NOx Annual Emissions - NG	50 mg/kWh (dry, 0% O ₂)

Concentric flue/air inlet	
Flue diameter I/D	200 mm
Air inlet diameter I/D	200 mm
Mass flue gas flow rate	107-531 kg/hr
Flue gas temperature	31-64 °C
Maximum counter pressure	150 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	72 dB^ (indoors)
Annual Energy Consumption	N/A
Useful Efficiency - Full Load (GCV)% ⁽³⁾	87.7^
Useful Efficiency - Part Load (GCV)% ⁽³⁾	97.7^

Hydraulics	
Water contents	33 ltrs
Resistance @ 15°C	356 mbar
Resistance @ 20°C	200 mbar
Nominal Flow Rate @ 15°C	4.64 l/s
Nominal Flow Rate @ 20°C	3.46 l/s
Condensate Connection	40 mm OD
Flow Connection Size BSP	2"(M)
Return Connection Size BSP	2"(M)
Standard Operating Temp.	20-90 °C (**)
Maximum Operating Temp.	90 °C (**)
High Limit Set Point	110 °C (**)
Maximum operating pressure	6 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	9 - 343 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)

(* 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