

Gas 120 Ace 90

technical data sheet.

Date: Sept 2023

This is a quick reference technical data sheet, full details can be found within the GAS 120 ACE installation and user manual 7717202 - v.04 - 23012023 via remeha.co.uk

Overview	
MODEL: GAS 120 ACE 90	CE ID No: 0085CT0009
Rated Output (80/60°C)	84.2 kW
Rated Output (50/30°C)	89.5 kW
Weight (dry) (without packaging)	109 kgs
Overall Dim WxHxD	600x1562x605 mm
No of sections:1 piece casting	Cast Aluminium Monoblock
SBEM Seasonal Efficiency %: GCV ⁽¹⁾	95.7
Efficiency - Full Load 100%: NCV ⁽⁴⁾	97.9
Efficiency - Part Load 30%: NCV ⁽⁵⁾	108.1
Stand-by Heat Loss:	0.119 kW

Burner type pre mix	
Standard Fuel Available	Natural Gas
Fuel Consumption (max) NG	1.5 - 9.1 m ³ /h
Fuel Consumption (max) LPG	0.9 - 3.5 m ³ /h
Flame Protection	Propane
Ignition	Electronic
Acoustic level at 1 metre	45 dB(A)
Optional Fuel (*)	Propane
Gas Connection size BSP	3/4" (M)
Min/Max Gas pressure - NG	17-25 mbar
Min/Max Gas pressure - LPG	37-50 mbar
NOx Annual Emissions EN15502 - NG	41 mg/kWh (dry, 0% O ₂) (Class 6)
NOx BREEAM Annual Emissions - NG	29 mg/kWh (dry, 0% O ₂) (Class 6)

Concentric flue/air inlet	
Flue diameter I/D	100 mm
Air inlet diameter I/D	150 mm
Mass flue gas flow rate	22-125 m ³ /h
Flue gas temperature	30-120 °C
Maximum counter pressure	160 Pa

Standard –
 – R-Bus, On/Off, 0-10v dc, Open Therm
 – 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
 – Outside sensor for simple weather compensation

Erp Data: ^Energy Label / ^^Eco Design	
Seasonal Space Efficiency % ⁽²⁾	N/A
Energy Efficiency Class ⁽²⁾	N/A
Sound Power Levels Lwa	61 dB^ (indoors)
Annual Energy Consumption	N/A
Useful Efficiency - Full Load (GCV)% ⁽³⁾	88.2^
Useful Efficiency - Part Load (GCV)% ⁽³⁾	97.4^

Hydraulics	
Water contents	10.1 ltrs
Resistance @ 11°C	529 mbar
Resistance @ 20°C	160 mbar
Nominal Flow Rate @ 11°C	1.83 l/s
Nominal Flow Rate @ 20°C	1.01 l/s
Minimum Flow Rate	340 l/h
Condensate Connection	25 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	4 bar
Minimum operating pressure	0.8 bar
Minimum operating pressure	0.3 bar (Open Vent)

Electrical	
Power Supply	230v - 1ph - 50hz
Power Consumption	24 - 124 W
Modulating input	0-10 v dc
Fuse Rating (Main)	10 amps
Fuse Rating (CU-GH08)	2.5 AT
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 GAR EU 2016 / 426
 (3) In accordance with EU 811 & 812 / 2013 Energy Labeling Regulations
 (4) In accordance with EU 813 & 814 / 2013 Eco Design Regulations
 (5) @ 80/60 °C Nett (EN 92/42)
 (6) @ 30 °C Nett (EN 92/42)

(*) See installation and service manual

(**) Open vented option maximum operating temperature 75° C high limit 95° C

(#) Flue adaptor available for CLV systems

In accordance with: PED 2014/68/EU
 ECD 2014/30/EU
 LVD 2014/35/EU