

# Quinta Ace 90

## technical data sheet.

Date: June 2023

This is a quick reference technical data sheet, full details can be found within the Quinta ACE installation and user manual 7684359 - v.14 - 03042023 via [remeha.co.uk](http://remeha.co.uk)

Overview	
Model: Quinta Ace 90	CE ID No: 0063CS3928
Rated Output (80/60°C)	84.2 kW
Rated Output (50/30°C)	89.5 kW
Weight (dry) (without packaging)	65.2 kgs (without front case)
Overall Dim WxHxD	500x750x500 mm
No of sections:	One piece casting
SBEM Seasonal Efficiency %: GCV <sup>(1)</sup>	95.65
Efficiency - Full Load 100%: NCV <sup>(4)</sup>	97.9
Efficiency - Part Load 30%: NCV <sup>(5)</sup>	108.1
Stand-by Heat Loss:	0.123 kW

Burner type pre mix	
Standard Fuel Available	Natural Gas
Fuel Consumption (max) NG	9.1 m <sup>3</sup> /h
Fuel Consumption (max) LPG	3.5 m <sup>3</sup> /h
Flame Protection	Ionisation
Ignition	Electronic
Acoustic level at 1 metre	51.6 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	23 mg/kWh (dry, 0% O <sub>2</sub> )-Class 6
NOx BREEAM Annual Emissions - NG	23 mg/kWh (dry, 0% O <sub>2</sub> )-Class 6

Concentric flue/air inlet	
Flue diameter I/D	100 mm
Air inlet diameter I/D	150 mm
Mass flue gas flow rate	28-138 kg/hr
Flue gas temperature	30-68 °C
Maximum counter pressure	160 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  
 – Hot water priority facility (3 way valve or pump)  
 – Two Safety Interlocks  
 – Hours run indication  
 – Flue - concentric connection (\*\*\*) (#)

**Optional –**  
 – Optimising compensator for single and multiple boilers  
 – Cascade kits - multiple boiler pipework kits  
 – Low loss headers  
 – Outside sensor for simple weather compensation  
 – Hot water priority kits (QA 30 - 115 only)  
 – Pump or valve kits  
 – Relay kits for single and multiple controls  
 230v switching relay required

Erp Data: ^Energy Label / ^^Eco Design	
Seasonal Space Efficiency % <sup>(2)</sup>	N/A
Energy Efficiency Class <sup>(2)</sup>	N/A
Sound Power Levels Lwa	60 dB^ (indoors)
Annual Energy Consumption	N/A
Useful Efficiency - Full Load (GCV)% <sup>(3)</sup>	88.2^
Useful Efficiency - Part Load (GCV)% <sup>(3)</sup>	97.4^

Hydraulics	
Water contents	9.4 ltrs
Resistance @ 11°C	506 mbar
Resistance @ 20°C	153 mbar
Nominal Flow Rate @ 11°C	1.83 l/s
Nominal Flow Rate @ 20°C	1.01 l/s
Condensate Connection	3/4" 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
Start Current	1.8 amps
Power Consumption	26-114 W
Modulating input	0-10 v dc
Fuse Rating	2.5 amps
Controls Voltage	24 v (max 4va)
Insulation Class IP	X4D

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/

(\*) See installation and service manual  
 (\*\*) Open vented option maximum operating temperature 75° C high limit 95° C  
 (\*\*\*) For conventional or room sealed operation  
 (#) Flue adaptor available for CLV systems  
 GAR (EU) 2016/426  
 BED 92/42/EEC  
 EMC 2014/30/EU  
 LVD 2014/35/EU  
 ErP 2009/125/EC