Quinta Ace S 110

Technical data sheet

remeha

BY BAXI

This is a quick reference technical data sheet, full details can be found within the Quinta ACE installation and user manual via www.baxi.co.uk

Date: January 2025

Overview	
Model: Quinta Ace S 110	PIN ID No: 0085DP0589
Rated Output (80/60°C)	102.0 kW
Rated Output (50/30°C)	110.2 kW
Weight (dry) without packaging	96.2 kgs (without front casing)
Overall Dim WxHxD	500x924x631 mm
No of sections	One piece casting
SBEM Seasonal Efficiency %: GCV(1)	95.0
Efficiency - Full Load 100%: NCV(4)	97.2
Efficiency - Part Load 30%: NCV(5)	107.4
Stand-by Heat Loss	0.073 kW
Burner type pre-mix	
Standard Fuel Available	Natural Gas
Fuel Consumption (max) NG	10.98 m3/h
Fuel Consumption (max) LPG	4.04 m3/h
Flame Protection	Ionisation
Ignition	Electronic
Acoustic level at 1 metre	56.8 dB(A)
Optional Fuel (*)	Propane
Gas Connection size BSP	1″ (M)
Min/Max Gas pressure - NG	17-30 mbar
Min/Max Gas pressure - LPG	37-50 mbar
NOx Annual Emissions - NG BREEAM (EN15502)	23 mg/kWh (dry, 0% O2) - Class 6
Concentric flue/air inlet	
Flue diameter I/D (**)	110 mm
Air inlet diameter I/D (#)	160 mm
Mass flue gas flow rate	18.0 - 169.2 kg/hr
Flue gas temperature	70oC
Maximum counter pressure	190 Pa

Erp Data: ^Energy Label / ^^Eco Design	
Seasonal Space Efficiency %(2)	N/A
Energy Efficiency Class(2)	N/A
Sound Power Levels Lwa	68 dB^ (indoors)
Annual Energy Consumption Gj	N/A
Useful Efficiency - Full Load (GCV)%(3)	87.6^
Useful Efficiency - Part Load (GCV)%(3)	96.8^
Hydraulics	
Water contents	10 ltrs
Resistance @ 15°C	709 mbar
Resistance @ 20°C	399 mbar
Nominal Flow Rate @ 15°C	1.63 l/s
Nominal Flow Rate @ 20°C	1.22 l/s
Condensate Connection	24mm OD
Flow Connection Size BSP	1 1/2″ (M)
Return Connection Size BSP	1 1/2″ (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	1 bar
Minimum operating pressure	N/A (Open Vent)
Electrical	
Electrical	230v - 1ph - 50hz
Full Load Current (max)	0.74 amps
Power Consumption	21 - 178 W
Modulating input	0-10 v dc
Controls Voltage (Potential free Contact	0 v
Insulation Class IP	X5D

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 (**) (#)
- LIN-Bus (Pump protocols)
- Quick connect external sockets

Optional
- Optimising compensator for single and multiple boilers
- Cascade kits– multiple boiler pipework kits
- Low loss headers
- Plate heat exchangers
- Air dirt separators
- ModBus & BACNet communications gateway
- Outside sensor for simple weather compensation
- Hot water priority
- Pump and valve kits
- Relay kits for single and multiple controls where a 230v switching relay is required

1) In accordance with the Approved Document Part L2 Building Regulations 2021 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 15502-1 & - 2)
(5) @ 50/30°C Nett (EN 15502-1 & - 2)

(*) See installation and service manual
(**) For conventional or room sealed operation Supplied with 110/160 to 100/150 adaptor
(#) 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