

# Quinta Ace S 50

## Technical data sheet



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](http://www.baxi.co.uk)

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Overview	
Model: Quinta Ace S 50	PIN ID No: 0085DP0589
Rated Output (80/60° C)	45.0 kW
Rated Output (50/30° C)	48.6 kW
Weight (dry) without packaging	35.5 kgs (without front casing)
Overall Dim WxHxD	500x766x560 mm
No of sections	One piece casting
SBEM Seasonal Efficiency %: GCV <sup>(1)</sup>	95.3
Efficiency - Full Load 100%: NCV <sup>(4)</sup>	97.4
Efficiency - Part Load 30%: NCV <sup>(5)</sup>	107.8
Stand-by Heat Loss	0.089 kW
Burner type pre-mix	
Standard Fuel Available	Natural Gas
Fuel Consumption (max) NG	4.81 m <sup>3</sup> /h
Fuel Consumption (max) LPG	1.84 m <sup>3</sup> /h
Flame Protection	Ionisation
Ignition	Electronic
Acoustic level at 1 metre	53.3 dB(A)
Optional Fuel (*)	Propane
Gas Connection size BSP	3/4" (M)
Min/Max Gas pressure - NG	17-30 mbar
Min/Max Gas pressure - LPG	37-50 mbar
NOx Annual Emissions - NG BREEAM (EN15502)	19 mg/kWh (dry, 0% O <sub>2</sub> ) - Class 6
Concentric flue/air inlet	
Flue diameter I/D (**)	80 mm
Air inlet diameter I/D (#)	125 mm
Mass flue gas flow rate	7.2 - 75.6 kg/hr
Flue gas temperature	92oC
Maximum counter pressure	185 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 (\*\*) (#)
- 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

Erp Data: ^Energy Label / ^^Eco Design	
Seasonal Space Efficiency % <sup>(2)</sup>	92
Energy Efficiency Class <sup>(2)</sup>	A
Sound Power Levels Lwa	64 dB^ (indoors)
Annual Energy Consumption G <sub>j</sub>	141
Useful Efficiency - Full Load (GCV) <sup>(3)</sup>	87.8^
Useful Efficiency - Part Load (GCV) <sup>(3)</sup>	97.1^
Hydraulics	
Water contents	4 ltrs
Resistance @ 15° C	836 mbar
Resistance @ 20° C	470 mbar
Nominal Flow Rate @ 15° C	0.72 l/s
Nominal Flow Rate @ 20° C	0.54 l/s
Condensate Connection	22mm OD
Flow Connection Size BSP	1" (M)
Return Connection Size BSP	1" (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	N/A (Open Vent)
Electrical	
Electrical	230v - 1ph - 50hz
Full Load Current (max)	0.43 amps
Power Consumption	21 - 102 W
Modulating input	0-10 v dc
Controls Voltage (Potential free Contact)	0 v
Insulation Class IP	X5D

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

(#) 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