

Quinta Ace 45

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

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Overview	
Model: Quinta Ace 45	E ID No: 0063DP3280
Rated Output (80/60°C)	40.8kW
Rated Output (50/30°C)	42.4 kW
Weight (dry) without packaging	52 kgs (without front casing)
Overall Dim WxHxD	500x750x476 mm
No of sections	One piece casting
SBEM Seasonal Efficiency %: GCV ⁽¹⁾	97.6
Efficiency - Full Load 100%: NCV ⁽⁴⁾	99.1
Efficiency - Part Load 30%: NCV ⁽⁵⁾	110.6
Stand-by Heat Loss	0.101 kW
Burner type pre-mix	
Standard Fuel Available	Natural Gas
Fuel Consumption (max) NG	4.3 m3/h
Fuel Consumption (max) LPG	1.6 m3/h
Flame Protection	Ionisation
Ignition	Electronic
Acoustic level at 1 metre	45.1 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 - NG BREEAM (EN15502)	24 mg/kWh (dry, 0% O ₂) - Class 6
Concentric flue/air inlet	
Flue diameter I/D (***)	80 mm
Air inlet diameter I/D (#)	125 mm
Mass flue gas flow rate	14 - 69 kg/hr
Flue gas temperature	30-67oC
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
- 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 kits (QA 30 - 115 only)
- 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 % ⁽²⁾	94
Energy Efficiency Class ⁽²⁾	A
Sound Power Levels Lwa	53 dB^ (indoors)
Annual Energy Consumption Gj	125
Useful Efficiency - Full Load (GCV)% ⁽³⁾	89.3^
Useful Efficiency - Part Load (GCV)% ⁽³⁾	99.6^
Hydraulics	
Water contents	4.3 ltrs
Resistance @ 15°C	203 mbar
Resistance @ 20°C	114 mbar
Nominal Flow Rate @ 15°C	0.65 l/s
Nominal Flow Rate @ 20°C	0.49 l/s
Condensate Connection	22.5mm OD
Flow Connection Size BSP	1 1/4"(M)
Return Connection Size BSP	1 1/4"(M)
Standard Operating Temp.	20-90oC (**)
Maximum Operating Temp.	90oC (**)
High Limit Set Point	110oC (**)
Maximum operating pressure	4 bar
Minimum operating pressure	0.8 bar
Minimum operating pressure	0.3 bar (Open Vent)
Electrical	
Electrical	230v - 1ph - 50hz
Full Load Current (max)	0.30 amps
Power Consumption	18 - 71 W
Modulating input	0-10 v dc
Controls Voltage (Potential free Contact)	0 v
Insulation Class IP	X4D

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

(**) 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