

# Quinta Ace 160

## 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 160	PIN ID No: 0063CQ3781
Rated Output (80/60°C)	152.1 kW
Rated Output (50/30°C)	161.6 kW
Weight (dry) without packaging	123 kgs (without front casing)
Overall Dim WxHxD	600x1045x600 mm
No of sections	One piece casting
SBEM Seasonal Efficiency %: GCV <sup>(1)</sup>	95.9
Efficiency - Full Load 100%: NCV <sup>(4)</sup>	97.5
Efficiency - Part Load 30%: NCV <sup>(5)</sup>	108.5
Stand-by Heat Loss	0.191kW
Burner type pre-mix	
Standard Fuel Available	Natural Gas
Fuel Consumption (max) NG	16.5 m <sup>3</sup> /h
Fuel Consumption (max) LPG	6.3 m <sup>3</sup> /h
Flame Protection	Ionisation
Ignition	Electronic
Acoustic level at 1 metre	59.5 dB(A)
Optional Fuel (*)	Propane
Gas Connection size BSP	1" (M)
Min/Max Gas pressure - NG	17-25 mbar
Min/Max Gas pressure - LPG	37-50 mbar
NOx Annual Emissions EN15502 - NG BREEAM (EN15502)	22 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	57 - 277 kg/hr
Flue gas temperature	32-66°C
Maximum counter pressure	200 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 % <sup>(2)</sup>	N/A
Energy Efficiency Class <sup>(2)</sup>	N/A
Sound Power Levels Lwa	68 dB^ (indoors)
Annual Energy Consumption	N/A
Useful Efficiency - Full Load (GCV) <sup>(3)</sup>	87.8^
Useful Efficiency - Part Load (GCV) <sup>(3)</sup>	97.8^
Hydraulics	
Water contents	17 ltrs
Resistance @ 11°C	302 mbar
Resistance @ 20°C	170 mbar
Nominal Flow Rate @ 11°C	2.43 l/s
Nominal Flow Rate @ 20°C	1.82 l/s
Condensate Connection	32mm 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	N/A (Open Vent)
Electrical	
Electrical	230v - 1ph - 50hz
Full Load Current (max)	1.15 amps
Power Consumption	47 - 275 W
Modulating input	0-10 v dc
Controls Voltage	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  
 (\*\*) 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