Quinta Ace 160

Technical data sheet



BY BAXI

Date: January 2025

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

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 ⁽¹⁾	95.9	
Efficiency - Full Load 100%: NCV ⁽⁴⁾	97.5	
Efficiency - Part Load 30%: NCV ⁽⁵⁾	108.5	
Stand-by Heat Loss	0.191kW	
Burner type pre-mix		
Standard Fuel Available	Natural Gas	
Fuel Consumption (max) NG	16.5 m3/h	
Fuel Consumption (max) LPG	6.3 m3/h	
Flame Protection	lonisation	
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% O2) - 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 proceure	200 Pa	

Energy Efficiency Class ⁽²⁾ Sound Power Levels Lwa Annual Energy Consumption N/A Useful Efficiency - Full Load (GCV)% ⁽³⁾ B7.8^ Useful Efficiency - Part Load (GCV)% ⁽³⁾ Hydraulics Water contents To ltrs Resistance @ 11°C Resistance @ 20°C Nominal Flow Rate @ 11°C Condensate Connection Flow Connection Size BSP To 1/4"(M) Standard Operating Temp. Maximum Operating Temp. Maximum Operating pressure Minimum operating Temp. Electrical Electrical Electrical Full Load Current (max) Power Consumption Modulating input Controls Voltage O v Modulating input Controls Voltage O v	Erp Data: ^Energy Label / ^^Eco Design	
Annual Energy Consumption Annual Energy Consumption N/A Useful Efficiency - Full Load (GCV)%(3) Useful Efficiency - Part Load (GCV)%(3) Hydraulics Water contents 17 ltrs Resistance @ 11°C Resistance @ 20°C Nominal Flow Rate @ 11°C 2.43 l/s Nominal Flow Rate @ 20°C 1.82 l/s Condensate Connection Flow Connection Size BSP 1 1/4"(M) Standard Operating Temp. Maximum Operating Temp. High Limit Set Point Minimum operating pressure N/A (Open Vent) Electrical Electrical Electrical Full Load Current (max) Power Consumption Modulating input O v Controls Voltage	Seasonal Space Efficiency %(2)	N/A
Annual Energy Consumption Wafeful Efficiency - Full Load (GCV)%(3) B7.8^ Useful Efficiency - Part Load (GCV)%(3) Hydraulics Water contents 17 ltrs Resistance @ 11°C 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 Flow Connection Size BSP 1 1/4"(M) Standard Operating Temp. Maximum Operating Temp. 90°C High Limit Set Point Minimum operating pressure N/A (Open Vent) Electrical Electrical Electrical Full Load Current (max) Power Consumption Modulating input O v	Energy Efficiency Class ⁽²⁾	N/A
Useful Efficiency - Full Load (GCV)%(3) 97.8^ Useful Efficiency - Part Load (GCV)%(3) 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. 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	Sound Power Levels Lwa	68 dB^ (indoors)
Hydraulics Water contents Resistance @ 11°C Resistance @ 20°C Nominal Flow Rate @ 11°C Condensate Connection Flow Connection Size BSP Standard Operating Temp. High Limit Set Point Maximum operating pressure Minimum operating Temp. Electrical Electrical Electrical Electrical Full Load Current (max) Modulating input Pont Ago Park No Account Ago Park Park No Account Ago Park N	Annual Energy Consumption	N/A
Hydraulics Water contents Resistance @ 11°C Resistance @ 20°C Nominal Flow Rate @ 11°C Nominal Flow Rate @ 20°C Condensate Connection Flow Connection Size BSP Return Connection Size BSP Maximum Operating Temp. High Limit Set Point 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	Useful Efficiency - Full Load (GCV)%(3)	87.8^
Water contents Resistance @ 11°C Resistance @ 20°C Nominal Flow Rate @ 11°C Nominal Flow Rate @ 20°C Condensate Connection Flow Connection Size BSP 11/4"(M) Return Connection Size BSP 11/4"(M) Standard Operating Temp. Maximum Operating Temp. Po°C High Limit Set Point Minimum operating pressure N/A (Open Vent) Electrical Electrical Electrical 230v - 1ph - 50hz Full Load Current (max) 1.15 amps Power Consumption 47 - 275 W Modulating input O-10 v dc Controls Voltage	Useful Efficiency - Part Load (GCV)%(3)	97.8^
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 11/4"(M) Return Connection Size BSP 11/4"(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	Hydraulics	1
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 11/4"(M) Return Connection Size BSP 11/4"(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	Water contents	17 ltrs
Nominal Flow Rate @ 11°C Nominal Flow Rate @ 20°C 1.82 l/s Condensate Connection 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 v	Resistance @ 11°C	302 mbar
Nominal Flow Rate @ 20°C Condensate Connection 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 N/A (Open Vent) Electrical 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	Resistance @ 20°C	170 mbar
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	Nominal Flow Rate @ 11°C	2.43 l/s
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 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	Nominal Flow Rate @ 20°C	1.82 l/s
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	Condensate Connection	32mm OD
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	Flow Connection Size BSP	1 1/4"(M)
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	Return Connection Size BSP	1 1/4"(M)
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	Standard Operating Temp.	20-90°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	Maximum Operating Temp.	90°C
Minimum operating pressure Minimum operating pressure 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	High Limit Set Point	110°C
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	Maximum operating pressure	4 bar
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	Minimum operating pressure	0.8 bar
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	Minimum operating pressure	N/A (Open Vent)
Full Load Current (max) 1.15 amps Power Consumption 47 - 275 W Modulating input 0-10 v dc Controls Voltage 0 v	Electrical	
Power Consumption 47 - 275 W Modulating input 0-10 v dc Controls Voltage 0 v	Electrical	230v - 1ph - 50hz
Modulating input 0-10 v dc Controls Voltage 0 v	Full Load Current (max)	1.15 amps
Controls Voltage 0 v	Power Consumption	47 - 275 W
	Modulating input	0-10 v dc
Insulation Class IP X4D	Controls Voltage	0 v
	Insulation Class IP	X4D

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

Maximum counter pressure

200 Pa

- 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

- 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