

QUINTA⁺ ACE 90

TECHNICAL SPECIFICATION SHEET

February 2019

This is a quick reference specification sheet, full details can be found in the Quinta ACE installation/service guide via remeha.co.uk/documents.

OVERVIEW

| | |
|---|---------------------------|
| MODEL : Quinta Pro 45 | GC No : N/A |
| Rated Output kW (80/60°C) | 84.2 |
| Rated Output kW (50/30°C) | 98.5 |
| Weight (dry) kgs | 65.2 (without front case) |
| Overall Dim WxHxD mm | 500x750x500 |
| No of sections: | One piece casting |
| SBEM Seasonal Efficiency %: GCV ⁽¹⁾ | 95.65 |
| Efficiency - Full Load 100%: NCV ⁽⁴⁾ | 97.9 |
| Efficiency - Part Load 30%: NCV ⁽⁵⁾ | 108.1 |
| Stand-by Heat Loss kW : | 0.123 |

BURNER TYPE PRE MIX

| | |
|---|---------------------|
| Std Fuel Available | Natural Gas |
| Fuel Consumption M ³ /h | 9.1 NG max |
| Fuel Consumption M ³ /h | 3.5 LPG max |
| Flame Protection | Ionisation |
| Ignition | Electronic |
| Noise level dB(A) at 1 metre | 51.6 |
| Optional Fuel | Propane |
| LGP adjustment (*) | |
| Gas Connection size BSP | 3/4" (M) |
| Min/Max Gas pressure mbar | 17-25 NG |
| Min/Max Gas pressure mbar | 37-50 LPG |
| NOx (Dry, 0% O ₂) NCV - EN15502 | 29 Mg/kWh (Class 6) |

CONCENTRIC FLUE/AIR INLET

| | |
|-------------------------------|--------|
| Flue diameter mm I/D | 100 |
| Air inlet diameter mm I/D | 150 |
| Mass flue gas flow rate kg/hr | 28-138 |
| Flue gas temperature °C | 30-68 |
| Maximum counter pressure PA | 160 |

CONTROLS/OPTIONS

| | |
|---|---|
| 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 o/ride Hot water priority facility (3 way valve or pump) Two Safety Interlocks Hours run indication Flue - concentric connection (***) (#) | OPTIONAL - Optimising compensators for single and multiple boilers Cascade kits - multiple boiler pipework kits Low loss headers Outside sensor fir simple weather compensation Hot water priority kits - pump or valve kits Relay kits for single and multiple controls - 230v switching relay |
|---|---|

ERP DATA - ECO DESIGN

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|---|------|
| Useful Efficiency - Full Load (GCV)% ⁽³⁾ | 88.2 |
| Useful Efficiency - Part Load (GCV)% ⁽³⁾ | 97.4 |
| Sound Power Levels Lwa Indoors dB | 60 |
| | |
| | |
| | |

HYDRAULICS

| | |
|----------------------------|-----------|
| Water contents ltrs | 9.4 |
| Resistance @ 11°C mbar | 506 |
| Resistance @ 20°C mbar | 153 |
| Nom Flow Rate @ 11° C l/s | 1.83 |
| Nom Flow Rate @ 20° C l/s | 1.01 |
| Min Flow Rate m3/hr | 0.4 |
| Condensate Connection | 3/4" OD |
| Connection Size " BSP | 1 1/4"(M) |
| Std Operating Temp °C | 20-90(**) |
| Max Operating Temp °C | 90 (**) |
| High Limit Set Point °C | 110 (**) |
| Max operating pressure bar | 4 |
| Min operating pressure bar | 0.8 |
| Min operating pressure bar | 0.3 o/v |

ELECTRICAL

| | |
|-----------------------|-------------------|
| Power Supply | 230v - 1ph - 50hz |
| Start Current amps | 1.8 |
| Power Consumption W | 26 - 114 |
| Modulating input V dc | 0-10 |
| Fuse Rating amps | 2.5 |
| Controls Voltage | 24 (max 4va) |
| Insulation Class IP | X4D |

(1) In accordance with the Non Domestic Building Services Compliance Guide 2013 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 92/42) EEC

(5) @ 50/30 °C nett (92/42) EEC

(*) 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