

Product Series	Quinta 45
Issue Date :	JULY 2008



TECHNICAL SPECIFICATION SHEET

MODEL : Quinta 45 **No of SECTIONS : One piece casting**

General Details

Fully condensing wall mounted boiler supplied c/w electronic temperature and safety controls.
 One piece cast aluminium heat exchanger. Powder coated, enamel steel casing forming sealed air box.
 Ultra low Nox, high / low or fully modulating (18-100%), pre - mix burner, gas/air ratio control for maximum efficiency and minimum emissions. Nox levels according to EN483 and EN 15420 (EN297 A3)
 Intelligent "abc[®]" boiler control system c/w numerical display providing operating and service parameters.
 Manufactured to ISO 9001. CE approved and supplied pre-assembled.

Output @ 80/60°C kW :	40	Efficiency % GCV :	> 93
Weight (dry) kgs :	57	Min Gas Pressure mbar :	17 NG
Overall Dim WxHxD mm :	500x940x353	Min Gas Pressure mbar :	37 LPG
Radiated Losses % :	< 0.1	Casing Colour BS RAL :	9016

BURNER TYPE

	Pre-mix	Low Nox Atmospheric	
Std Fuel Available :	Natural Gas	Gas Conn. size "BSP" :	3/4
LPG adjustment	On commissioning	Nox Level Mg/kW @ O% O₂ :	37
Flame Protection :	Ionisation	Gas Consumption M³/h:	1.0 - 5.0 NG
Noise Levels dB(A) :	< 48	Gas Consumption M³/h:	0.3 - 1.7 LPG
Ignition :	Electronic		

HYDRAULICS

Nom Flow @ 11°C Δt l/s :	0.89	Resistance @ 11°C Δt.mb :	300
Nom Flow @ 20°C Δt l/s :	0.48	Resistance @ 20°C Δt. mb:	90
Min Return Temp °C	20	Min Flow Rate l/s :	#
Op Press min/max bars :	0.3 / 3.5 open vent	Std Operating Temp °C :	20 - 90
Op Press min/max bars :	0.8 / 3.5 pressure	Max Operating Temp °C :	110
Test Press bar :	6	Boiler Connections BSP :	1"F & 1¼"M
Condensate Conn mm :	25 o/d flexible	Water Content ltrs :	5.5

FLUE/ AIR INLET

Concentric connection supplied as Standard for conventional or room sealed operation

Residue Fan Duty Pa :	150	Air Inlet Connection mm :	125 i/d
Flue Diameter mm :	80 i/d	Flue Gas Mass kgs/hr :	14 - 69
Flue Gas Volume Cu M/h :	11.32 – 55.78		

ELECTRICAL

Insulation Class IP :	20	Power Supply :	230.1.50
Start Current amps :	1.8		
Fuse Rating Amps :	6	Power Consumption W :	30 - 85
Modulating input V dc :	0-10	Controls Voltage V ac :	24 (max 4VA)

CONTROLS

Standard :	High / Low	BMS Modulating (18-100%)	On / Off
	Manual o/ride	Hours Run Indication	
	High limit protection	Low water protection	
	Operating status indication		
	Volt free common alarm and boiler run indication		
	Safety interlock control pair (24V ac)		
Optional :	Rematic Optimising / Compensator (two wire communicating modulating)		
	DHW priority control	Celcia 20	Celcia MC4

For a continuous supply of heat, the boiler requires a minimum flow of 30% of the relevant design temperatures