

# Sapphire

Specification for Sapphire 330E & 440E Fitted with one 14" Steam Boiler

## Design Features

- 330, 440, 550, 660, 770 litre
- MP 25 Control
- Reliable 'Hoist & Clamp' door
- Fixed seal
- Space-saving design
- Accelerated water cooling
- Integral drip tray under door
- Electric or Steam Powered

## Optional Accessories

- Loading trolley
- Waste discard system
- Air Ballasting
- Range of cycle recording systems
- Drain condenser for plastic drains
- Available in Stainless Steel
- Scale prevention systems
- Vacuum air removal systems

## Capacities and Dimensions

All measurements are in mm unless explicitly stated otherwise.

Model	Sapphire 330	Sapphire 440
Autoclave Weight	990 kg	1040 kg
Export Case Size	1440w x 2200h x 1690d	1440w x 2200h x 1690d
Overall dimensions	980w x 1930h x 1530d	980w x 1930h x 1530d
Chamber dimensions:	670w x 670h x 633d	670w x 670h x 848d
Chamber Usable Capacity	330 litres	440 litres
Steam Boiler Capacity	40 litres	40 litres

## Safe Design Operating Limits

Model	Sapphire 330	Sapphire 440
Max working temperature	138° C	138° C
Min working temperature	7° C	7° C
Min ambient temperature	11° C	11° C
Max ambient temperature	28° C	28° C
Max hydraulic pressure	4.14 Bar	4.14 Bar
Max working pressure	2.62 Bar	2.62 Bar
Max working vacuum	Minus 1 Bar	Minus 1 Bar
Boiler hydraulic pressure	6 Bar	6 Bar
Boiler working pressure	4 Bar	4 Bar

## Site Requirements

Model	Sapphire 330	Sapphire 440
Electrical site requirement	Switched RCD Required	
Drain requirement	150°C 35mm copper pipe	150°C 35mm copper pipe
Voltage	415 Volts	415 Volts
Phase requirement	3ph/N 50/60hz	3ph/N 50/60hz
Power consumption	18kw.	24kw.
Fuse Rating	40amp	45amp

## Option Requirements

- Cooling Jacket / Drain line condenser option require a header tank of 45 litres placed between one and four metres above the autoclave
- Air supply at 38psi 7cfm for air ballasting option
- Air supply at 100psi 2cfm for pneumatic sliding door

## General Requirements

- Sodium Chloride within water supply MUST NOT EXCEED a level greater than 30 parts per million.

## Complying Standards

- PED Cat. 2 Module A1 Notified Body Royal & Sun Alliance No 0040.
- Harmonized Standards Applied: EMC BS EN 61326.
- Community Directives Applied: Pressure Equipment Directive: 97/23/EC
- Designed in accordance with BS2646 part 1 En1919-2-41
- Chamber & Door constructed of stainless steel BS1501-321 S31 & BS 1501-316 S31

Information is subject to change to suit different options added. The information in this sheet is correct as of 29th February 2008, please contact us if you have any queries.



“ The Sapphire is our flagship autoclave, powerful, unique, reliable and state of the art, this new autoclave is ideally suited for heavy duty work where capacity and reliability are key. ”

