

Sapphire

Specification for Sapphire 550DS, 660DS & 770DS

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
- Double door variant
- Air Ballasting
- Range of cycle recording systems
- Drain condenser for plastic drains
- Available in Stainless Steel
- Integrated backup steam generator
- Vacuum air removal systems

Capacities and Dimensions

All measurements are in mm unless explicitly stated otherwise.

Model	Sapphire 550	Sapphire 660	Sapphire 770
Autoclave Weight	1055 kg	1100 kg	1205 kg
Export Case Size	1140w x 2200h x 1690d	1140w x 2200h x 1910d	1140w x 2200h x 2500d
Overall dimensions	980w x 1930h x 1530d	980w x 1930h x 1750d	980w x 1930h x 1915d
Chamber dimensions:	670w x 670h x 1070d	670w x 670h x 1280d	670w x 670h x 1480d
Chamber Usable Capacity	550 litres	660 litres	770 litres

Safe Design Operating Limits

Model	Sapphire 550	Sapphire 660	Sapphire 770
Max working temperature	138° C	138° C	138° C
Min working temperature	7° C	7° C	7° C
Min ambient temperature	11° C	11° C	11° C
Max ambient temperature	28° C	28° C	28° C
Max hydraulic pressure	4.14 Bar	4.14 Bar	4.14 Bar
Max working pressure	2.62 Bar	2.62 Bar	2.62 Bar
Max working vacuum	Minus 1 Bar	Minus 1 Bar	Minus 1 Bar

Site Requirements

Electrical site requirement

Switched RCD Required

Model	Sapphire 550	Sapphire 660	Sapphire 770
Mains steam supply	70lb p/h @ 2.67bar	70lb p/h @ 2.67bar	70lb p/h @ 2.67bar
Drain requirement	150°C 35mm copper pipe	150°C 35mm copper pipe	150°C 35mm copper pipe
Voltage	415 Volts	415 Volts	415 Volts
Phase requirement	3ph/N 50/60hz	3ph/N 50/60hz	3ph/N 50/60hz
Power consumption	1.2kw.	1.2kw.	1.2kw.
Fuse Rating	6amp	6amp	6amp

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
- Backup steam generator requires 3ph/N 50/60hz 96amp power supply.

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 31st October 2006, 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. ”

