# Sapphire DS

# **Design Features**

- 330, 440, 550, 660 & 770 litre options.
- MP25 Controller
- Square Chamber
- Automatic mechanically hoisted sliding door.
- Fixed Seal
- Space-saving design
- Integral drip tray under door
- · Accelerated water cooling by means of a water jacket.

# **Capacities and Dimensions**

# Model

Autoclave Weight Export case size **Overall Dimensions Chamber Dimensions** Chamber Usable Capacity

# **Safe Design Operating Limits**

## Model

Max working temperature Min working temperature Min ambient temperature Max ambient temperature Max hydraulic pressure Max working pressure Max working vacuum

# Site Requirements

Electrical Site Requirement: Model Mains Steam Supply Drain requirement Voltage Phase requirement Power consumption Fuse rating

# **Option Requirements**

• Air supply at 38psi 7cfm for air ballasting option

• Steam Jacket drying option requires liquid ring vacuum.

# **General Requirements**

- Air supply at 100psi 2cfm for pneumatic sliding door
- Sodium Chloride within water supply MUST NOT EXCEED a level greater than 500parts per million.
- Use regular mains water only. DO NOT use RO or distilled water.
- Cooling Jacket requires a header tank of 45 litres placed between one and four metres above the autoclave.
- Drain requires a 35Ømm copper pipe, vented to atmosphere.
- Steam Supply required: (330)18kw, 55lb p/h / (440) 24kw, 70lb p/h @ 2.67 Bar / 38 PSI

# **Complying Standards**

- PED Cat. 2 Module A1 Notified Body Royal & Sun Alliance No 0040. (Sapphire 330)
- PED Cat. 3 Module B+C1 Notified Body Royal & Sun Alliance No 0040. (Sapphire 440)
- Harmonized Standards Applied: EMC BS EN 61326.
- Community Directives Applied: Pressure Equipment Directive: 97/23/EC
- Designed in accordance with BS5500, BS2646 part 1 En1919-2-41
- Chamber & Door constructed of stainless steel BS1501-321 S31 & BS 1501-316 S31



# **Optional Accessories**

- Loading Trolley
- Range of cycle recording systems
- Drain Line Condenser for plastic drains
- Scale prevention systems
- Vacuum air removal system
- Waste Discard system
- Air Ballasting option
- Additional shelves & baskets
- Steam Jacket drying option Integrated Backup Steam Generator

All measurements are in MM unless stated otherwise

# Sapphire 330 650 kg 1140w x 2200h x 1690d

# 980w x 1930h x 1530d 670w x 670h x 745d 330 litres

## Sapphire 330 138° C 7° C 11° C 28° C 4.14 Bar 2.62 Bar Minus 1 Bar

Switched RCD Required

Sapphire 330

3ph/N 50/60 hz

415 Volts

1kw

6amp

55lb p/h @2.67 Bar

150°C 35mmØ copper

Sapphire 440 70lb p/h @2.67 Bar 150°C 35mmØ copper 415 Volts 3ph/N 50/60 hz 1kw

# Sapphire 440 750 kg 1140w x 2200h x 1690d 980w x 1930h x 1530d 670w x 670h x 936d 440 litres

Sapphire 440

unique, reliable and state of the art, this new autoclave is ideally suited for heavy duty work where capacity and reliability are key."

Information is subject to change to suit different

options added. The information in this sheet is

correct as of 6th September 2013, please contact

"The Sapphire is our flag

ship autoclave, powerful,

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us if you have any queries. E & OE.

Rodwell



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6amp