

# Crystal

Specification for Crystal 200DS, 250DS & 300DS

## Design Features

- 200, 250 & 300 litre variants
- MP 25 Control
- Square section chamber
- Cost effective hinge / bolt door
- Fixed seal
- Space-saving design
- Integral drip tray under door
- Efficient fan assisted cooling

## Optional Accessories

- Loading trolley
- Range of cycle recording systems
- Drain condenser for plastic drains
- Scale prevention systems
- Vacuum air removal systems
- Waste Discard system
- Air Ballasting
- Integrated backup steam generator

## Capacities and Dimensions

All measurements are in mm unless explicitly stated otherwise.

Model	Crystal 200	Crystal 250	Crystal 300
Autoclave Weight	470 kg	480 kg	500 kg
Export Case Size	990w x 1870h x 1610d	990w x 1870h x 1610d	990w x 1870h x 1610d
Overall dimensions	830w x 1600h x 1450d	830w x 1600h x 1450d	830w x 1600h x 1450d
Chamber dimensions:	510w x 510h x 670d	510w x 510h x 860d	510w x 510h x 1030d
Chamber Usable Capacity	200 litres	250 litres	300 litres

## Safe Design Operating Limits

Model	Crystal 200	Crystal 250	Crystal 300
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	Crystal 200	Crystal 250	Crystal 300
Mains steam supply	35lb p/h @ 2.67bar	35lb p/h @ 2.67bar	35lb p/h @ 2.67bar
Drain requirement	150°C 35mm copper pipe	150°C 35mm copper pipe	150°C 35mm copper pipe
Voltage	240 Volts	240 Volts	240 Volts
Phase requirement	1ph/N 50/60hz	1ph/N 50/60hz	1ph/N 50/60hz
Power consumption	1kw.	1kw.	1kw.
Fuse Rating	6amp	6amp	6amp

## Option Requirements

- Air supply at 38 psi 7cfm for air ballasting option.
- The Drain line condenser option requires a header tank of 15 litres placed between one and four metres above the autoclave.
- Backup steam generator requires up to 3ph/N 50/60hz 66amp power supply depending on model.

## 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 crystal is a powerful workhorse, combining large capacity with clever design features designed to save you time and money in the running of your lab... ”



Rodwell Scientific Instruments, Bentalis, Pippis Hill Industrial Estate, Basildon, Essex SS14 3SD  
Tel: +44 (0)1268 286646 Fax: +44 (0)1268 287799  
E-mail: sales@rodwell-autoclave.com  
Online: www.rodwell-autoclave.com