

# Sovereign DS

Specifications for Sovereign 200 & 250,DS. All models are heated from an independent external steam generator

## Design Features

- 200 & 250 litres
- MP25 Controller
- Economy round chamber
- Economical simple door closure
- Fixed Seal
- Economical space saving design
- Drip tray under door

## Capacities & Dimensions

### Model

Autoclave weight  
Export case size  
External dimensions  
Chamber dimensions  
Usable chamber capacity

## Optional Accessories

- Loading trolleys & carriages
- Data recording options
- Drain line condenser for plastic drains
- Electronic Scale prevention
- Vacuum air removal
- Waste discard containers
- Air Ballasting
- Additional shelves loading baskets
- Fan assisted cooling

All measurements are in mm unless specified otherwise

### Sovereign 200

470 kg  
990w x 1970h x 1610d  
830w x 1800h x 1450d  
545Ø x 860d  
200 litres

### Sovereign 250

480 kg  
990w x 1970h x 1610d  
830w x 1800h x 1450d  
545Ø x 1057d  
250 litres

## Safe Design Operating Limits

### Model

Max working temperature  
Min working temperature  
Min ambient temperature  
Max ambient temperature

### Sovereign 200

138° C  
7° C  
11° C  
28° C

### Sovereign 250

138° C  
7° C  
11° C  
28° C

Max hydraulic pressure  
Max working pressure  
Max working vacuum  
Boiler hydraulic pressure  
Boiler working pressure

4.14 Bar  
2.62 Bar  
-1 Bar  
6 Bar  
4 Bar

4.14 Bar  
2.62 Bar  
-1 Bar  
6 Bar  
4 Bar

## Site Requirements

Electrical site requirements:

### Model

Mains Steam Supply  
Drain Requirement  
Voltage  
Phase requirement  
Power consumption  
Fuse rating

Switched RCD Required

### Sovereign 200

35lb p/h @2.67 bar  
150°C 35mmØ copper  
240 volts  
1ph/N 50/60 hz  
1kw  
6amp

### Sovereign 250

35lb p/h @2.67 bar  
150°C 35mmØ copper  
240 Volts  
1ph/N 50/60 hz  
1kw  
6amp

## Optional Requirements

- Air supply at 38psi 7cfm for air ballasting option
- Backup Steam Generator requires 35amp 3ph/N 50/60hz power supply & a 25 litre header tank situated between 1 & 4 metres above the autoclave.

## General Requirements

- Sodium Chloride within water supply MUST NOT exceed a level greater than 500 parts per million.
- Use regular mains water only, DO NOT use RO or Distilled water.
- Boiler or auto-fill requires a 25 litre header tank situated between 1 & 4 metres above the autoclave.
- Drain requires a 35mmØ copper pipe located at floor level.

## Complying Standards

- PED Cat 3 Modules B+C1 Notified Body: Royal & Sun alliance No. 0040
- Harmonised Standards applied: EMC BS EN 61326
- Community directives applied : Pressure Equipment Directive 97/23/EC
- Designed in accordance with BS5500 & BS2646 part 1 EN 1919-2-41
- Chamber and Door constructed of stainless steel BS1501-321 S31 & BS 1501-316 S 31



**"The Sovereign is a powerful workhorse, combining large capacity with clever design features designed to save you time and money in the running of your lab..."**

Information is subject to change to suit different options added. The information on this sheet is correct as of 6th September 2013. Please contact us if you have any queries. E & OE



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