

# Monarch

Specifications for Monarch 50 & 75 'Electric' series

## Design Features

- 50 or 75 litres
- MP25 Controller
- Monarch 50 fits underneath a standard laboratory bench
- Angled control panel
- Robust space saving design
- Single phase "Plug & play"
- Exceptionally low loading height
- Excellent loading capacity for up to 3 baskets.
- Counterbalanced lid for easy opening

## Optional Accessories

- Additional loading baskets
- Waste Discard system
- Fan Assisted Cooling
- Condense collector which eliminates a drain requirement.
- HEPA filter
- Data logging options (paper & paperless)
- 4kw high speed heating (MON75)
- 3kw heater for portability (MON50)

## Capacities & Dimensions

All measurements are in mm unless stated otherwise

Model	Monarch 50	Monarch 75
Autoclave Weight	120 kg	160 kg
Export Packing Case	630w x 1110h x 890d	630w x 1330h x 890d
Overall dimensions	470w x 840h x 690d	470w x 1100h x 690d
Chamber dimensions	350 Ø x 520d	350 Ø x 780d
Loading Height	640mm	950mm
Useable chamber capacity	50 litres	75 litres
Water requirement	8 litres	8 litres

## Safe Design Operating Limits

Model	Monarch 50	Monarch 75
Maximum working temperature	138° C	138° C
Minimum working temperature	7° C	7° C
Minimum ambient temperature	11° C	11° C
Maximum ambient temperature	28° C	28° C
Maximum hydraulic pressure	4.41 Bar	4.41 Bar
Maximum working pressure	2.62 Bar	2.62 Bar
Maximum working vacuum	Minus 1 Bar	Minus 1 Bar

## Site Requirements

Electrical Site Requirement: Switched RCD : 13amp (Mon50) 20amp (Mon75).

Model	Monarch 50	Monarch 75
Voltage	230 Volts	230 Volts
Phase requirement	1ph/N 50/60 hz	1ph/N 50/60 hz
Power consumption	3kw	4kw
Fuse rating	13amp	20amp

## Option Requirements

- The auto fill option requires a header tank of 15 litres placed 1-4 metres above the autoclave.
- The drying option requires auto water dump & vacuum options as well as a plumbed in drain service
- The vacuum option will require auto water dump
- Drain requirement of 150°C 35mm Ø copper pipe at ground level.

## General Requirements

- Sodium chloride in the water supply MUST NOT exceed a level greater than 500 parts per million.
- Use only mains water. DO NOT use distilled or RO water.

## Complying Standards

- Monarch 50: PED Cat 2 module A1 Notified Body : Royal & Sun Alliance No. 0040
- Monarch 75: PED Cat 3 module 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 part1 EN 1919-2-41
- Chamber & door constructed of stainless steel BS1501-321 S31 & BS 1501-316 S 31



**“The Monarch 50 is ideal as an under-bench solution, and the Monarch 75 is perfect for large vessels such as fermentors”**

Information is subject to change to suit different options added. The information in 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 correo electrónico: sales@rodwell-autoclave.com  
Sitio: www.rodwell-autoclave.com