

# 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       | 500w x 785h x 607d  | 500w x 1095h x 607d |
| 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 30 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 January 2010, please contact us if you have any queries. E & OE



**Wolflabs**

# Wolf Laboratories Limited

[www.wolflabs.co.uk](http://www.wolflabs.co.uk)

Tel: 01759 301142

Fax: 01759 301143

[sales@wolflabs.co.uk](mailto:sales@wolflabs.co.uk)



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