

# Ensign E

Specification for Ensign 100E, & 125E

## Design Features

- 100 or 125 litre options
- MP25 Control
- 3 phase or single phase option for 100 litre model.
- Robust space-saving design

## Optional Accessories

- Air Ballasting
- Automatic drain and re-fill

## Optional Accessories (continued)

- Scale prevention systems
- Waste discard system
- High speed fan accelerated cooling
- Range of cycle recording systems
- Vacuum air removal
- Easy touch button electronic hoist for easy loading
- Additional Baskets and trays
- Condense collector which eliminates a drain Requirement.

## Capacities and dimensions

All measurements are in mm unless explicitly stated otherwise

Model	Ensign 100	Ensign 125
Autoclave weight	215 kg	220 kg
Export packing case	740w x 1370h x 990d	740w x 1530h x 990d
Overall dimensions	560w x 1090h x 800d	560w x 1240h x 800d
Chamber dimensions	460 Ø x 570d	460 Ø x 723d
Chamber usable capacity	98.75 litres	124.45 litres

## Safe Design Operating Limits

Model	Ensign 100	Ensign 125
Max working temperature	138° C	138° C
Min working temperature	7° C	7° C
Min ambient temperature	11° C	11° C
Max ambient temperature	28° C	28° C
Max hydraulic pressure	4.14 Bar	4.14 Bar
Max working pressure	2.62 Bar	2.62 Bar
Max working vacuum	Minus 1 Bar	Minus 1 Bar

## Site Requirements

Electrical site requirement:	Switched RCD required	
Model	Ensign 100	Ensign 125
Drain requirement	150°C 35mmØ copper	150°C 35mmØ copper
Voltage	230/415 Volts	415 Volts
Phase requirement	1ph / 3ph/N 50/60 hz	3ph/N 50/60 hz
Power consumption	6kw / 9kw	9kw
Fuse rating	25amp(1ph) / 16amp (3ph)	16amp

## Option Requirements

- The auto fill option requires a header tank of 15 litres placed between one & four metres above the autoclave.
- Air supply at 38psi 7cfm required for air ballasting option.
- Vacuum option with drying heater, will require Auto drain with a plumbed in drain service.
- Condense Collector option requires a drain line condenser to be fitted.

## 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 distilled or RO water.
- Drain requirement of 150°C 35mm Ø copper pipe at floor level.

## Complying Standards

- 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 part 1 EN 1919-2-41
- Chamber and Door constructed of stainless steel BS1501-321 S31 et BS 1501-316 S 31



**“The ensign is a robust and reliable autoclave, ideal for any mid-sized laboratory that needs a configurable workhorse they can rely on for smooth operation.”**

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.



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