

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

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

All measurements are in mm unless explicitly stated otherwise

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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