

Ensign DS

Specification for Ensign 100, & 125 Direct Steam

Design Features

- 100 or 125 litre options
- MP25 Control
- Robust space-saving design

Optional Accessories

- Air Ballasting
- Waste discard system

Optional Accessories (continued)

- 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.
- High speed fan accelerated cooling

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
Mains Steam Supply	35lb p/h @ 2.67 Bar	35lb p/h @ 2.67 Bar
Drain requirement	150°C 35mmØ copper	150°C 35mmØ copper
Voltage	230 Volts	230 Volts
Phase requirement	1ph/N 50/60 hz	1ph/N 50/60 hz
Power consumption	0.5kw	0.5kw
Fuse rating	2amp	2amp

Option Requirements

- 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.
- Mains Steam Supply required: 9kw, 35lb p/h @ 2.67 bar / 38 PSI.

Complying Standards

- PED Cat 2 Module A1 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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