

Ensign

Specification for Ensign 100 & 125 Direct Steam

Design Features

- 100 or 125 litre
- MP 25 Control
- Robust space-saving design

Optional Accessories

- Additional loading baskets
- Automatic Fill
- Automatic drain and re-fill

Capacities and Dimensions

All measurements are in mm unless explicitly stated otherwise.

Model	Ensign 100	Ensign 125
Autoclave Weight	320 kg	335 kg
Export Case Size	740w x 1370h x 990d	740w x 1530h x 990d
Overall dimensions	580w x 1100h x 830d	580w x 1260h x 830d
Chamber dimensions:	460 Ø x 610 deep	460 Ø x 870 deep
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	2.26 Bar	2.26 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 @ 2.67bar	35lb p/h @ 2.67bar
Drain requirement	150° 35mm copper pipe	150° 35mm copper pipe
Voltage	230 Volts	230 Volts
Phase requirement	1ph/N 50/60hz	1ph/N 50/60hz
Power consumption	0.5kw.	0.5kw.
Fuse Rating	2amp	2amp

Option Requirements

- The auto fill option requires a header tank of 15 litres placed between one and four metres above the autoclave.
- Vacuum option with Drying Heater, will require Auto/fill and Auto/Drain with plumbed in drain service

General Requirements

- Sodium Chloride within water supply MUST NOT EXCEED a level greater than 30 parts per million.

Complying Standards

- PED Cat. 2 Module A1 Notified Body Royal & Sun Alliance No 0040.
- Harmonized Standards Applied: EMC BS EN 61326.
- Community Directives Applied: Pressure Equipment Directive: 97/23/EC
- Designed in accordance with BS2646 part 1 En1919-2-41
- Chamber & Door constructed of stainless steel BS1501-321 S31 & BS 1501-316 S31



“ 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 in this sheet is correct as of 31st October 2006, please contact us if you have any queries.

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

- Automatic fill
- Automatic drain and re-fill

Capacities and dimensions

Model

Autoclave weight
Export packing case
Overall dimensions
Chamber dimensions
Chamber usable capacity
Water requirement

	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 610d	460 Ø x 760d
Chamber usable capacity	98.75 litres	124.45 litres
Water requirement	18 litres	18 litres

All measurements are in mm unless explicitly stated otherwise

Safe Design Operating Limits

Model

Max working temperature
Min working temperature
Min ambient temperature
Max ambient temperature

	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
Max working pressure
Max working vacuum

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

Drain requirement
Voltage
Phase requirement
Power consumption
Fuse rating

	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 or drain line condenser 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.

General Requirements

- Sodium Chloride within water supply MUST NOT EXCEED a level greater than 30 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 15th January 2010. Please contact us if you have any queries.



Wolflabs

Wolf Laboratories Limited

www.wolflabs.co.uk

Tel: 01759 301142

Fax: 01759 301143

sales@wolflabs.co.uk



Use the above details to contact us if this literature doesn't answer all your questions.

Pricing on any accessories shown can be found by keying the part number into the search box on our website.

The specifications listed in this brochure are subject to change by the manufacturer and therefore cannot be guaranteed to be correct. If there are aspects of the specification that must be guaranteed, please provide these to our sales team so that details can be confirmed.

