## Frozen in Time Ltd.

Manufacturers of Freeze Drying Machines and Vacuum Cold traps

## HSLS-4 SIP Freeze drier

The **HSLS-4** freeze dryer is a steam sterilisable, high-performance production freezedrier. The chamber and shelves are made from polished 316L stainless steel. Temperature control is achieved by circulating thermal fluid that can be cooled or heated as required. The **HSLS-4** freeze drier meets the stringent demands of the pharmaceutical and biotechnology industries. The key features of this unit are its drying options using up to eight shelves with a total area of 3.8m<sup>2</sup> and shelf spacing of 60 mm combined with the hydraulic vial stoppering device. The freeze drier uses 2.5bar steam pressure to achieve

135°C on all internal surfaces.

The **HSLS-4** is designed for small-scale production activities where sterilisation between processes is essential.

**UK Manufactured** 

Technical Data	HSLS-4
Ice condenser capacity	45 kg
Ice condenser performance:	30 kg / 24 h
Ice condenser temperature:	-85 °C
Defrost:	Hot gas & electric
Shelf dimensions:	60 × 80cm
Number of shelves:	8 +1
Shelf area:	3.8 m2
Shelf spacing:	min. 6 cm
Shelf temperature:	-70 °C to +60 °C
Clean Steam Pressure:	2.5bar
Sterilisation Temperature:	135°C
Door locking Mechanism:	Automatic
Shelf temperature accuracy:	max. ±1 °C
Cooling systems:	Water
Refrigeration:	Cascade
Isolation Valve:	Ø25cm
Unit dimensions:	200 × 200 × 150cm
	$(H \times W \times D)$
Refrigerant:	R507 & R23

Part No HSLS-4

FIT/LYO/95/1





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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.





