Frozen in Time Ltd.

Manufacturers of Freeze Drying Machines and Vacuum Cold traps

HS-4 & HSL-4 Freeze drier

The HS-4 freeze dryer is a general-purpose, high-performance pilot unit featuring stainless steel shelves with internal circulating heat transfer fluid for heating and cooling, enabling it to meet most stringent demands of the pharmaceutical and biotechnology industries. The key features of this unit are its drying options using up to six shelves with a total area of 3.6m² shelf spacing of 60 mm, and a hydraulic vial stoppering device. The HS-4 is also ideal for product development and small-scale production activities.

The HS-3 comes with fully automatic controls as standard. The touch screen Scada system takes full control of the whole freezedrier. Please see additional information.

Also available in a clean room version. where all accessible parts are behind in a separate room. **UK Manufactured**

Technical Data	HS-4	HSL-4
Ice condenser capacity	45 kg	45 kg
Ice condenser performance:	30 kg / 24 h	30 kg / 24 h
Ice condenser temperature:	-55 °C	-85 °C
Defrost:	Hot gas	Hot gas & electric
Shelf dimensions:	75 × 80 cm	75 × 80cm
Number of shelves:	6 +1	6 +1
Shelf area:	3.6 m ²	3.6 m ²
Shelf spacing:	min. 6cm	min. 6cm
Shelf temperature:	-45 °C to +60 °C	-65 °C to +60 °C
Shelf temperature accuracy:	max. ±1 °C	max. ±1 °C
Cooling systems:	Air cooled or water	Air cooled or water
Refrigeration:	Single stage	Cascade
Isolation Valve:	Ø25cm	Ø25cm
Unit dimensions:	206 × 200 × 126cm (H × W × D)	190 × 120 × 250cm (H × W × D)
Refrigerant:	R507	R507 & R23

Part No`s

HS-4 Automated FIT HSL-4 Automated FIT

FIT/LYO/89/1 FIT/LYO/92/1







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.

www.wolflabs.co.uk

Tel : 01759 301142 Fax : 01759 301143 sales@wolflabs.co.uk

Please contact us if this literature doesn't answer all your questions.