

Frozen in Time Ltd.

Manufacturers of Freeze Drying Machines
and Vacuum Cold traps

HS-2 & HSL-2 Freeze drier

The HS-2 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 the stringent demands of the pharmaceutical and biotechnology industries. The key features of this unit are its drying options using up to five shelves with a total area of 1m², shelf spacing of 60 mm, and a hydraulic vial stoppering device. The HS-2 is also ideal for product development and small-scale production activities.

There are two control options available the first is the manual touch keypad with LCD vacuum, temperature displays and manually operated valves. This system does come with a RS232 computer application that can log data and control step changes giving it a simplified computer led programmed profile to follow.

The second is the fully automatic version where a touch screen Scada system takes full control of the whole freeze drier. 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-2	HSL-2
Ice condenser capacity	25 kg	25 kg
Ice condenser performance:	15 kg / 24 h	15 kg / 24 h
Ice condenser temperature:	-55 °C	-85 °C
Defrost:	Hot gas	Hot gas & electric
Shelf dimensions:	40 x 50cm	40 x 50cm
Number of shelves:	5 +1	5 +1
Shelf area:	1 m ²	1 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	Air cooled
Refrigeration:	Single Stage	Cascade
Isolation Valve:	Ø15cm	Ø15cm
Unit dimensions:	189 x 95 x 100cm	189 x 95 x 100cm



Part No's

HS-2 Manual	FIT/LYO/74/1
HSL-2 Manual	FIT/LYO/77/1
HSL-2 Automated	FIT/LYO/80/1



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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.

