

# Frozen in Time Ltd.

Manufacturers of Freeze Drying Machines  
and Vacuum Cold traps

## HSL-5 Freeze drier

The HSL-5 clean room design freeze drier is a, 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 seven shelves with a total area of 6m<sup>2</sup>, shelf spacing of 60 mm, and a hydraulic vial stoppering device. The HSL-5 is also ideal for product development and small-scale production activities.

The HS-5 comes with fully automatic controls as standard. The touch screen Scada system takes full control of the whole freeze drier. Please see additional information. **UK Manufactured**

Technical Data	HSL-5
<b>Ice condenser capacity</b>	80 kg
<b>Ice condenser performance:</b>	60 kg / 24 h
<b>Ice condenser temperature:</b>	-85 °C
<b>Defrost:</b>	Hot gas & electric
<b>Shelf dimensions:</b>	80 x 107cm
<b>Number of shelves:</b>	7 +1
<b>Shelf area:</b>	6 m <sup>2</sup>
<b>Shelf spacing:</b>	min. 60 mm
<b>Shelf temperature:</b>	-70 °C to +60 °C
<b>Shelf temperature accuracy:</b>	max. ±1 °C
<b>Cooling system:</b>	Water
<b>Refrigeration:</b>	Cascade
<b>Isolation Valve:</b>	Ø25cm
<b>Unit dimensions:</b>	190 x 130 x 300cm (H x W x D)
<b>Refrigerant:</b>	R507 & R23



**Part No**  
HSL-5

FIT/LYO/98/1



**Wolflabs**

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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.

