

Frozen in Time Ltd.

Manufacturers of Freeze Drying Machines

and Vacuum Cold traps

FR-500 Freezedrier

UK Manufactured

The FR-500 freeze drier is a short cycle, high-performance unit featuring stainless steel shelves that radiate heat to the product. The product is held in anodised aluminium trays that are suspended between the heater shelves on a removable cassette.

The cassette trolley allows for a batch of trays to be prepared in advance then easily loaded and unloaded for quick turnaround times.

The key features of this unit are:

- Fast drying capabilities of between 16 and 24 hours for 450-500kg wet volume depending on product type.
- Fully programmable automatic cycle with 19inch touch screen HMI.
- Remote access via internet and direct factory support.
- Tray area of 43m² and a shelf spacing of 60 mm

The FR-500 is also ideal for large scale product development and medium-scale production activities.

The refrigeration system can be water cooled or air cooled, depending of requirements or preference. We can supply both air cooled condenser cells or a chiller.



Technical Data

FR500

Ice condenser capacity	600 kg
Ice condenser performance:	600 kg / 24 h
Ice condenser temperature:	-55 °C
Defrost:	Cold steam
Number of trays:	220 spread over 5 loading cassettes
Tray area:	43m ²
Shelf spacing:	6cm
Shelf temperature:	Up to 130°C
Cooling systems:	Water cooled
Refrigeration:	Screw compressor x2
Unit dimensions:	210 x 230 x 600cm (H x W x D)
Refrigerant:	R507 or R449a
Vacuum:	Pfeiffer Hena backing pump + Pfeiffer Okta boost pump

Part No

FR-500

FIT/LYO/500/1

Please enquire for a more detailed specification and price

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