

Freeze Dryer

LIOSMART-100

- Industrial scale freeze-drying
- 7.4 m² shelf area
- Shelf fluid circulated cooling and heating
- - 55 °C condenser coil temperature
- 50 recipes, each with up to 50 segments
- Water-cooled compressor refrigeration system
- VHP decontamination ready



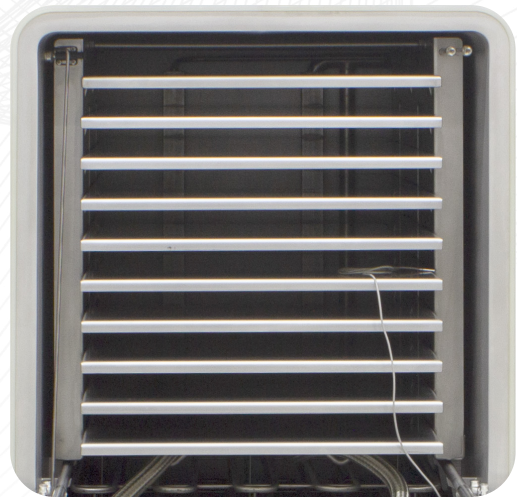
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Device Specifications:

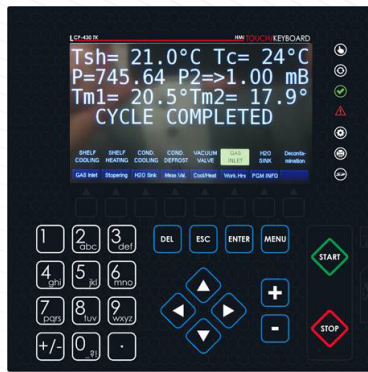
- Perfected temperature control on shelves
- Smooth and easy to clean
- Simple shelf removal for cleaning
- Shelves and chamber made of AISI 304
- Exterior made in AISI 304
- Fully transparent door for product and process observation
- Vacuum control function
- VHP decontamination ready



Technical Data:	LIOSMART-100
External dimensions (WxDxH)	1400 mm x 2178 mm x 1920 mm
Chamber dimensions (WxDxH)	700 mm x 1400 mm x 1000 mm
Ice condenser performance	100 kg
Ice condenser temperature	- 55 °C
Ice condenser defrost	Reverse ref. loop
Number of shelves	10
Shelf size (WxD)	600 mm x 1240 mm
Shelf surface	10 x 0.74 m² = 7.4 m²
Shelf spacing	50 mm
Shelve removal trolley	Included
Shelf temperature range	- 40 °C ... + 70 °C
Shelf temperature stability	+/- 0.3 °C
Shelf temperature uniformity	+/- 1 °C
Temperature set resolution	0.1 °C
Shelf cool down rate	From + 20 °C to - 40 °C ... 60 min
Heat up rate	From - 40 °C to + 70 °C ... 56 min
Cooling	Water cooled compressor system
Heating	Electrical
User interface	Fully programmable 50 recipes each with up to 50 process steps
Software	Windows compatible History & full remote control via virtual user interface
Door	Fully transparent single handed closing
Power supply	3 x 400V / 50 Hz / 57A
Wattage (W)	24000
Interface	RS 232 / USB
Temperature probe	PT-100 shelf temperature PT-100 condenser temperature PT-100 Material
Vacuum probe	Pirani chamber Pirani vacuum pump (optional)
Weight	~ 1600 kg

* Vacuum pump available separately!

User Interface:



Dimensions:

