

LYODRY MIDI PRO FREEZE DRYER



TECHNICAL VACUUM EXCELLENCE SINCE 2008

**DATA LOGGING, TRENDS, PRESSURE CONTROL, MODULAR,
TOUCH SCREEN, -55°C OR -85°C CONDENSER**

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LyoDry Midi Pro Freeze Dryer features all of the advantages of the standard LyoDry Midi Freeze Dryer, but is designed for more closely controlled freeze drying applications, with touch screen control and enhanced functionality including data logging, pressure control, real time and historical temperature and pressure trends, ethernet comms and USB.

A modular freeze dryer, it can be used with a choice of drying chambers and accessories for bulk or flask drying. If used with the Heated 6-Tray Chamber (pictured right, 10-Tray version also available) then complex pressure/temperature profiles can be controlled accurately and reproducibly without operator intervention.

Compact, free standing and castor mounted, the LyoDry Midi Pro is designed to fit beside a standard laboratory bench with a fully accessible cabinet for easy access to the integral vacuum pump (an Edwards RV12 as standard, or the optional nXDS15i dry scroll pump if preferred).

LyoDry Freeze Dryers are UK designed, manufactured and supported by MechaTech Systems Ltd, used and endorsed by universities, government research institutes, pharma and food manufacturers, in the UK and globally.



LyoDry Midi with Heated 6-Tray Chamber

The LyoDry Midi Pro Freeze Dryer incorporates all features of the standard LyoDry Midi....

Condenser temperature -55°C or -85°C	CFC free condenser, ice capacity 18g
Modular - choice of drying chambers to suit a wide range of freeze drying applications	Integral Edwards RV12 pump as standard or dry scroll pump available as option
Hot gas defrost	Directly replaces SuperModulyo freeze dryer
UK designed, manufactured and supported	12 month warranty; extendable to 24 months with optional Service Contract

...occupying the same footprint, with enhanced functionality:

Wide screen Touch Screen Operator Interface with easy icon navigation	Real time and historical trending of temperature and pressure values
Data-logging	Pressure control
Password protection	Alarms history
Ethernet comms and USB	Multiple profile creation if used with Heated Accessory

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TECHNICAL SPECIFICATION

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Part number and model	LSM55P LyoDry Midi Pro	LSM85P LyoDry Midi Pro
Maximum condenser chamber volume	44.5 litres	44.5 litres
Ice removal capacity (in 12 hours)	6 kg (13 lbs)	6 kg (13 lbs)
Ice removal capacity (in 24 hours)	10.5 kg (23 lbs)	10.5 kg (23 lbs)
Maximum ice capacity	18 kg (40 lbs)	18kg (40 lbs)
Operating temperature (based on tests in well vented room at 20°C ambient; condenser under vacuum with no load)	-55 °C	-85 °C
Temperature display range	Ambient to -60 °C	Ambient to -90 °C
Pressure display range	0.01 mbar to 1000 mbar	0.01 mbar to 1000 mbar
Pressure control range	0.05 - 1 mbar	0.05 - 1 mbar
Ultimate pressure	<5*10 ⁻² mbar	<5*10 ⁻² mbar
Data transfer port	USB	USB
Refrigeration compressor type	1 hp hermetic unit - CFC free	1 hp hermetic unit (x2) - CFC free
Dimensions (H x W x D)	945 x 700 x 950 mm	945 x 700 x 950 mm
Weight	230kg (507 lbs)	237kg (522lbs)
Power requirements	230VAC/50 Hz, 13.0 A	230VAC/50 Hz, 13.0 A

The LyoDry Midi Pro was originally designed as a direct replacement for the Edwards SuperModulyo® freeze dryer. Many standard SuperModulyo drying accessories (e.g. acrylic chamber, tray drying accessory, etc) are directly interchangeable, offering significant cost savings if only the condenser needs replacing. Choose from a variety of LyoDry accessories to accommodate bulk materials, flasks, vials and ampules. When used with either LSAD6H Heated Tray Drying Accessory or LSCC10H heated 10-tray chamber, multiple profiles (freeze drying 'recipes') can be created.



View the full range of LYODRY / SUPERMODULYO freeze dryer accessories and spares [ONLINE](#), or contact the sales team for further information

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