

LYODRY MIDI PRO FREEZE DRYER

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

MECHATECH
SYSTEMS

TECHNICAL VACUUM EXCELLENCE
SINCE 2008

10 YEARS +



[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 Accessory, or Heated 10-Tray Chamber then complex pressure/temperature profiles can be controlled accurately and reproducibly without operator intervention.

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.

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



CONDENSER TEMPERATURE -55°C OR -85°C

CFC FREE ICE CONDENSER, ICE CAPACITY 18Kg

MODULAR - CHOOSE YOUR
PREFERRED DRYING CHAMBER / MANIFOLD

INTEGRAL RV12 VACUUM PUMP
(OR OPTIONAL DRY SCROLL VACUUM PUMP)

HOT GAS DEFROST

DIRECT REPLACEMENT FOR
SUPERMODULYO FREEZE DRYER

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

WIDE SCREEN TOUCH OPERATOR INTERFACE
WITH ICONS FOR EASY 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 TRAY OR CHAMBER ACCESSORY

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).

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Registered in England and Wales No. 6469333

www.mechatechsystems.co.uk



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TECHNICAL SPECIFICATION

| 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) | 6kg (13 lbs) | 6kg (13 lbs) |
| Ice removal capacity (in 24 hours) | 10.5kg (23 lbs) | 10.5kg (23 lbs) |
| Maximum ice capacity | 18kg (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 OUR SALES TEAM FOR FURTHER INFORMATION

CONTACT US FOR A QUOTATION AND/OR FURTHER INFORMATION:
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