

# LYODRY MIDI FREEZE DRYER



TECHNICAL VACUUM EXCELLENCE SINCE 2008

**SIMPLE LCD DISPLAY, HOT GAS DEFROST, SS CABINET,  
-55°C OR -85°C CONDENSER, 18KG ICE CAPACITY**

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The [LyoDry Midi](#) freeze dryer condenser is suitable for a wide range of freeze drying duties, from laboratory applications to industrial pilot plant work, including pharma, food and beverage applications. UK designed, manufactured and maintained, quality assured.

The next size up from a LyoDry benchtop freeze dryer, the LyoDry Midi is a versatile 18Kg capacity ice condenser, with condenser temperatures of either -55°C or -85°C. It is modular with a wide choice of drying chambers and accessories to suit freeze drying bulk, flasks or vials with options for heating.



The LyoDry Midi was originally designed as a direct replacement for the Edwards SuperModulyo® freeze dryer, but today incorporates the latest freeze drying technologies. Many Edwards drying chambers and accessories are compatible with the LyoDry Midi, offering significant cost savings if only the condenser needs replacing. Add a 10-shelf chamber (available with optional heating if required) for an economical pilot scale or small production scale freeze dryer.

-55°C or -85°C, 18Kg ice condenser capacity	Available with a wide choice of drying chambers and accessories
Large, alphanumeric display of vacuum and temperature units with backlit, matrix LCD display	User changeable vacuum and temperature units, user prompted vacuum pump control directly from display
System status - cooling / ready; easy to follow, user friendly commands	System start-up bar graph clearly indicates time remaining until 'Ready'
Automatic hot gas defrost; CFC free	Integral Edwards RV12 vacuum pump as standard or optional dry scroll pump
UK designed, manufactured and supported	12 month warranty; extendable to 24 months with optional Service Contract

MechaTech Systems Ltd,  
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## TECHNICAL SPECIFICATION

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Part number and model	LSMC55 LyoDry Midi	LSMC85 LyoDry Midi
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)	18 Kg (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
Ultimate pressure	<5*10 <sup>-2</sup> mbar	<5*10 <sup>-2</sup> mbar
Refrigeration compressor type	1hp 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	230 Kg (507 lbs)	237kg (522 lbs)
Power requirements	230VAC/50 Hz, 13.0 A	230VAC/50 Hz, 13.0 A

Compact, free standing and castor mounted, the LyoDry Midi 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). Automatic hot gas defrost, temperature and vacuum indicators provide added control and time saving advantages for your process. The LyoDry Midi features a clear, bright LCD display, visible even from a distance. User friendly commands allow the operator to view vacuum units in millibar, Torr or pascal and temperature in Celsius or Fahrenheit. System status is obvious at a glance. The vacuum pump is controlled on-screen and the user is prompted to do this when the condenser reaches temperature.

LyoDry Freeze Dryers conform to the latest environmental standards, manufactured by F-Gas certified engineers using CFC free refrigeration gas. LyoDry Freeze Dryers are designed to have fast cool down times, helping to minimise energy consumption and maximise life expectancy.

### LYODRY MIDI ACCESSORIES and SPARES

Part number	Description
LSDC	Acrylic drying chamber 350mm x 435mm, lid and 2 x L-gaskets
LSAD6	Acrylic drying chamber 350mm x 435mm, lid and 2 x L-gaskets with 6-product tray drying rack assembly, SS
LSDCV	Acrylic drying chamber with 8-port valve lid assembly with neoprene valves
LSAD6H	Heated tray drying accessory comprising: acrylic drying chamber 350mm diameter x 435mm, lid and 2 x L-gaskets, with 6-product tray rack assembly, heater mats and temperature controller
LSPM24	24-Port pipe manifold with removable neoprene valves, for flask drying
LSCC10	Front loading multi-shelf chamber with hinged door with viewport, 10 removable trays, unheated as standard or with optional heating (part no LSCC10H). Also available with optional manifolds for flask drying

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

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