

# LYODRY MIdI FREEZE DRYER

SINGLE OPERATOR INTERFACE, HOT GAS DEFROST,  
-55°C OR -85°C, 18Kg ICE CONDENSER



The LyoDry Midi is an 18Kg capacity Freeze Dryer Condenser, available with condenser temperatures of either -55°C ( part no: LSMC55) or -85°C (part no: LSMC85).

The LyoDry Midi Freeze Dryer is ideal for a range of freeze drying duties, from diverse laboratory applications to industrial pilot plant work. It can also be used as a condenser or solvent trap. suitable for pharma, food and beverage applications.



The LyoDry Midi is offered with a wide choice of drying accessory options. It was originally designed as a direct replacement for the Edwards SuperModulyo® freeze dryer, but today incorporates the latest freeze drying technologies. Therefore many standard Edwards drying accessories (e.g. acrylic chamber, tray drying accessory, etc) are directly interchangeable, offering significant cost savings if only the condenser needs replacing. Add an LSCC10 10-shelf chamber for a truly economical pilot/small production scale freeze dryer.

UK designed, manufactured and maintained. Quality assured.

-55°C or -85°C, 18Kg ice condenser capacity	Available with a wide choice of drying chambers and accessories (and compatible with most SuperModulyo 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	Clean, laboratory-friendly, polished stainless steel finish
UK designed, manufactured and supported	12 month warranty; extendable to 24 months with a Service Contract option

# LYODRY MIDI FREEZE DRYER

## TECHNICAL SPECIFICATION



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
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 nXDS15j 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.

The LyoDry Midi is the next size up from the LyoDry Compact benchtop freeze dryer, offering a low cost, user-friendly, freeze drying solution for pilot or small scale production.

## 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)



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**Pricing on any accessories shown can be found by keying the part number into the search box on our website.**

The specifications listed in this brochure are subject to change by the manufacturer and therefore cannot be guaranteed to be correct. If there are aspects of the specification that must be guaranteed, please provide these to our sales team so that details can be confirmed.

