

# LYODRY COMPACT BENCHTOP FREEZE DRYER

SINGLE OPERATOR INTERFACE COMBINING USER COMMANDS AND INSTRUMENT PARAMETERS



LyoDry Compact benchtop condenser

The **LyoDry Compact** benchtop freeze dryer is the latest generation **5 litre** capacity, **-55°C** multipurpose, ice condenser from MechaTech Systems. Designed to work with a **wide variety of drying accessories** to accommodate bulk materials, flasks, vials and ampules, this robust design includes a smooth wall, stainless steel ice condenser with a front mounted bottom drain.

The LyoDry Compact features a clear, bright **LCD display**, visible even from a distance. User friendly commands allow the operator to view vacuum units in either **mbar or Torr**, and temperature in **Celsius or Fahrenheit**. System status is obvious at a glance. The vacuum pump can be controlled on-screen, and the user is prompted to do this when the condenser reaches temperature.



The **LyoDry Compact** is designed as a direct replacement for the Edwards Modulyo® benchtop freeze dryer, and many standard Modulyo drying accessories, (e.g. acrylic chamber, tray drying accessory, etc) are directly interchangeable, offering significant cost savings if only the condenser needs replacing.

Designed and manufactured in the UK, the LyoDry Compact offers a superior, keenly priced, freeze drying solution, used and endorsed by universities and research centres in the UK and worldwide.

Add an acrylic chamber, tray drying accessory or a column manifold and optional purpose-built SS trolley (NEW) - see accessories list on page 2

## FEATURES

- Compact benchtop footprint, -55°C smooth wall stainless steel ice condenser, 5 litre capacity
- User-prompted vacuum pump control, directly from screen
- Clean, laboratory friendly, polished stainless steel finish
- System status - Cooling / Ready
- CFC free refrigeration system
- Supplied complete with pump connection kit
- UK designed, manufactured and fully supported
- Automatic microprocessor control
- Large, alphanumeric display of vacuum and temperature with backlit, matrix LCD display
- Simple to follow, user friendly commands
- User changeable pressure vacuum units between mbar or Torr
- User changeable temperature units between degrees Celsius or degrees Fahrenheit
- System Start-Up bar graph clearly indicates time remaining until 'Ready'
- Compatible with many existing Edwards Modulyo accessories



# LYODRY COMPACT BENCHTOP FREEZE DRYER

## LyoDry Compact

## TECHNICAL SPECIFICATION

Part number and model	LSBC50 LyoDry Compact
Maximum condenser chamber capacity	5 litres
Ice removal capacity (in 12 hours)	1.2kg (2.6 lbs)
Ice removal capacity (in 24 hours)	2.3kg (5.1 lbs)
Maximum ice capacity	4.5kg (9.9 lbs)
Operating temperature (based on based on tests in well vented room; condenser under vacuum with no load)	-55 °C
Temperature display range	Ambient to -60 °C
Pressure display range	0.01 mbar to 1000 mbar
Refrigeration compressor type	2/3 hp hermetic unit
Dimensions (H x W x D)	332 x 455 x 600 mm
Weight	55kg (121 lbs)
Power requirements	LSBC50-230: 230VAC/50 Hz, 8.0 A LSBC50-115: 115VAC/60 Hz, 15.0 A



Add a drying accessory, such as the LSAD6 chamber, vacuum pump, and optional, purpose built SS trolley (NEW) for a complete, low-cost, laboratory freeze drying solution

## LyoDry Compact ACCESSORIES and SPARES

Part number	Description
LSDC	Acrylic drying chamber 350mm x 435mm, lid and 2 x L-gaskets
LSLID	Acrylic lid, clear, 350mm diameter x 25mm thickness for use with LSDC and LSAD6
LSAD6	Acrylic drying chamber 350mm x 435mm, lid and 2 x L-gaskets complete with 6 product tray drying rack assembly, SS
LSAD6H	Heated tray drying accessory comprising: acrylic drying chamber 350mm diameter x 435mm, lid and 2 x L-gaskets, complete with 6 SS product tray rack assembly, heater mats and temperature controller
LSD6	6-tray drying rack assembly, SS (for use inside acrylic chamber 350mm x 435mm)
LSPM24	24-Port pipe manifold with removable neoprene valves, for flask drying
LSB40	Single shelf chamber with controllable shelf temperature -40°C to +60°C, optional stoppering, pressure rise and data logging
LSCT	NEW PRODUCT - Purpose built SS trolley with castors and brakes, with bottom shelf to accommodate vacuum pump
A653-01-903	Edwards RV5 vacuum pump 115/230V, 1ph, 50/60Hz factory set to 230V for Europe
A462-26-000	EMF10 outlet mist filter for RV5 vacuum pump
A505-23-000	Adjustable gas ballast oil return kit
H110-25-011	Ultragrade 19 vacuum pump oil for RV pumps
L-GASKET14	14" L-gasket, nitrile, for benchtop freeze dryer chamber, for use with LSDC and LSAD6

## FURTHER ACCESSORIES ARE AVAILABLE





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**Use the above details to contact us if this literature doesn't answer all your questions.**

**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.

