

# LYODRY COMPACT BENCHTOP FREEZE DRYER



TECHNICAL VACUUM EXCELLENCE SINCE 2008

**SIMPLE LCD DISPLAY, HOT GAS DEFROST, SS CABINET, -55°C OR -85°C CONDENSER, 5KG ICE CAPACITY**

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The LyoDry Compact benchtop freeze dryer is UK designed, manufactured and supported, offering a superior, keenly priced, freeze drying solution, used and endorsed by universities and research laboratories in the UK and globally.

The latest generation [LyoDry Compact](#) benchtop freeze dryer, with 5Kg ice capacity per batch, is available with either a -55°C or -85°C condenser temperature, hot gas defrost for faster defrosting, additional display options to view your preferred unit of vacuum and temperature and on-screen vacuum pump control.

Designed to work with a wide variety of drying accessories to accommodate bulk materials, flasks, vials and ampoules, this robust design includes a smooth wall, stainless steel ice condenser with a front mounted bottom drain for added convenience.

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 millibar, Torr or pascal 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 was originally designed as a direct replacement for the Edwards Modulyo® benchtop freeze dryer. Therefore many standard Modulyo freeze dryer accessories, (e.g. acrylic chamber, tray drying accessory, etc) are directly interchangeable, offering significant cost savings if only the condenser needs replacing.

All LyoDry Freeze Dryers are UK designed, manufactured and supported.



Compact benchtop footprint, -55°C or -85°C smooth wall, stainless steel, 5Kg capacity ice condenser	Available with a wide choice of drying chambers and accessories (and compatible with most Modulyo 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 cabinet
UK designed, manufactured and supported	12 month warranty; extendable to 24 months with a Service Contract option

MechaTech Systems Ltd,  
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Registered in England and Wales No. 06469333

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## TECHNICAL SPECIFICATION

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Part number and model	LSBC55 LyoDry Compact	LSBC85 LyoDry Compact
Maximum condenser chamber volume	8.5 litres	8.5 litres
Ice removal capacity (in 12 hours)	1.2kg (2.6 lbs)	1.2kg (2.6 lbs)
Ice removal capacity (in 24 hours)	2.3kg (5.1 lbs)	2.3kg (5.1 lbs)
Maximum ice capacity	5kg (11 lbs)	5kg (11 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	2/3 hp hermetic unit, CFC free	1/2 / 1/3 hp hermetic unit, CFC free
Dimensions (H x W x D)	332 x 455 x 600 mm	332 x 555 x 685 mm
Weight	55kg (121 lbs)	77kg (170 lbs)
Power requirements	LSBC55-230: 230VAC/50 Hz, 1.9 kW LSBC55-115: 115VAC/60 Hz	LSBC85-230: 230VAC/50 Hz, 2.3 kW LSBC85-115: 115VAC/60 Hz



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

## LYODRY COMPACT ACCESSORIES and SPARES

Part number	Description
LSDCS	Acrylic bell jar, 225mm x 212mm OD with L-gasket
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
LSCT	Purpose built SS trolley with castors and brakes, with bottom shelf to accommodate vacuum pump
CRVPRO8	Welch vacuum pump 230V, 1ph, 50Hz with mainslead, exhaust filter and vacuum pump oil

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

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