

# LYODRY BENCHTOP PRO FREEZE DRYER



TECHNICAL VACUUM EXCELLENCE SINCE 2008

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

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[LyoDry Benchtop Pro Freeze Dryer](#) features all of the advantages of our entry level model, the [LyoDry Compact Benchtop Freeze Dryer](#), but is designed for more closely controlled freeze drying applications.

LyoDry Benchtop Pro has the added advantages of 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 LSAD6H Heated Tray Accessory, 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 Benchtop Pro Freeze Dryer incorporates all features of the standard LyoDry Compact Benchtop Freeze Dryer...

Condenser temperature -55°C or -85°C	CFC free condenser, ice capacity 5Kg
Modular - choice of drying chambers/manifold to suit your freeze drying application	Clean, laboratory-friendly, polished stainless steel cabinet
Hot gas defrost	Direct replacement for Modulyo freeze dryer
UK designed, manufactured and supported	12 month warranty; extendable to 24 months with a Service Contract option



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

Wide screen Touch Operator Interface with easy icon 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 Accessory

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Registered in England and Wales No. 06469333

[www.mechatechsystems.co.uk](http://www.mechatechsystems.co.uk)



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## TECHNICAL SPECIFICATION

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Part number and model	LSB55P LyoDry Benchtop Pro	LSB85P LyoDry Benchtop Pro
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
Pressure control range	0.05 - 1 mbar	0.05 - 1 mbar
Ultimate pressure	<5*10 <sup>-2</sup> mbar	<5*10 <sup>-2</sup> mbar
Data transfer port	USB	USB
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	230VAC/50 Hz, 1.9 kW	230VAC/50 Hz, 2.3 kW
	115VAC/60 Hz	115VAC/60 Hz



Add a drying accessory, such as the Acrylic Chamber and Tray Accessory, vacuum pump and optional, purpose-built SS trolley for a complete, freeze drying solution.

## LYODRY BENCHTOP PRO 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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