

# Lyophilizer Freeze Dryer

## Dehydrating Heat-Sensitive

LuxMed® can be fully customized with the programming required for your application. This includes multiple manageable profiles, each providing the ability to automatically power on and off the condensing unit and the oil-free vacuum pump in conjunction with ascending, controlled temperature and time settings. Control the rate of freeze, ultimate final freeze temperature, and the duration of time your sample is held at the ultimate freeze temperature before the drying cycle begins. Control of the shelf temperature during the dry cycle, allowing the material to dry in phases, at different temperatures. Automatically control the rate of sublimation during the primary drying cycle with shelf heaters. Through this process, the unit has control of the attendant vacuum pressure. The freeze dryer records and logs the pressure and temperature during the entire freeze-dry cycle for ensured system performance. Connect the unit to a PC via Ethernet cable for data logging and exporting.

System includes a 7 CFM oil-free scroll vacuum pump which is quiet, fast, and does not require regular user maintenance.

### Application/Features

- User-friendly interface provides program customization - up to 10 thermal treatment and 12 drying steps
- Constructed with a durable stainless steel chamber and collector
- Large 4.3" full-color, touch-screen display provides real-time pressure and temperature data
- Easily connect to a PC via ethernet cable for data logging and communication
- Capable of freeze drying as much as a 1-2 gallons of material
- Medium freeze dryer has a 4 L sublimated ice holding capacity
- Runs on 230Vac VAC 50 Hz VAC power



Model	LM-RC-FD43-ULT	LM-RC-FD43-ULT-EP	LM-RC-DF43-DFR	LM-RC-DF43-DFR-EP	LM-CY-FD43-ULT	LM-CY-FD43-ULT-EP	LM-CY-DF43-DFR	LM-CY-DF43-DFR-EP
Type	Standard chamber	4 port manifold	Standard chamber	4 port manifold	Standard chamber	4 port manifold	Standard chamber	4 port manifold
Cold Trap Temp.	-88		-40		-88		-40	
Shelf Temp.	-60~+70		-30~+35		-60~+70		-30~+35	
Temp. Uniformity	±1		±1		±1		±1	
Vacuum Degree	≤0.1Pa		≤0.1Pa		≤0.1Pa		≤0.1Pa	
Cold Trap Volume	11L		11L		11L		11L	
Freezer Drying Area	0.1m <sup>2</sup>		0.1m <sup>2</sup>		0.1m <sup>2</sup>		0.1m <sup>2</sup>	
Condensing Capacity	3kg/h		3kg/h		3kg/h		3kg/h	
Qty. of Shelf	1		1		1		1	
Drying Chamber Capacity	43L		43L		43L		43L	
Drying Chamber Size	270mm x 400mm x 400mm		270mm x 400mm x 400mm		Diameter :300mm x Length :430mm		Diameter :300mm x Length :430mm	
Material Loading Capacity	3000ml		3000ml		3000ml		3000ml	
Total Qty. of Vial	Φ22mm	216	216	216	216	216	216	216
	Φ16mm	400	400	400	400	400	400	400
	Φ12mm	726	726	726	726	726	726	726
Manifold	/	4 pieces	/	4 pieces	/	4 pieces	/	4 pieces
USB Interface	Yes		Yes		Yes		Yes	
Drying Chamber(Standard)	Transparent Acrylic		Transparent Acrylic		Transparent Acrylic		Transparent Acrylic	
Vacuum Pump	Standard		Standard		Standard		Standard	
Control System	Microprocessor, touch screen		Microprocessor, touch screen		Microprocessor, touch screen		Microprocessor, touch screen	
Power Supply	220/110V, 50/60Hz		220/110V, 50/60Hz		220/110V, 50/60Hz		220/110V, 50/60Hz	
Power	2.3kW		2.3kW		2.3kW		2.3kW	
Cold Trap Size(Φ*Hmm)	215*190mm		215*190mm		215*190mm		215*190mm	
Shelf Size(W*D*H)	270*400*150mm		270*400*150mm		270*400*150mm		270*400*150mm	
External Size(W*D*H)	820*695*600/995mm		820*695*600/995mm		820*695*600/995mm		820*695*600/995mm	
Host Package Size(W*D*H)	940*840*990mm		940*840*990mm		940*840*990mm		940*840*990mm	
Vacuum Pump Package Size(W*D*H)	600*230*300mm		600*230*300mm		600*230*300mm		600*230*300mm	
Gross Weight	180kg	210kg	180kg	210kg	180kg	210kg	180kg	210kg

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