



## Lyophilizer Freeze Dryer

**LMFD61, LMFD62, LMFD63, LMFD64 ( -60°C)**  
**LMFD83, LMFD84 ( -80°C)**



E - Catalogue

**(-60°C)** Condenser temperature, suitable for samples with most water solvents;  
**(-80°C)** Condenser temperature, applicable for samples with low freezing point substances

Lyophilizer Freeze Drying removes water from frozen materials by turning ice directly into vapor (sublimation) without becoming liquid. This process uses heat to vaporize the ice, vacuum to remove the vapor, and a cold collector to condense it back into ice.

### SALIENT FEATURES

- ✦ 7" Touch Screen Display, Simple operation
- ✦ Power Off Auto recovery Function
- ✦ Display - condenser temperature, sample temperature and vacuum, display graph, Vacuum and temperature correction to ensure long-term accuracy in use.
- ✦ Power-off auto-recovery function: Allows customers to set the power-off restart time
- ✦ Alarm and prompt functions to prevent misoperation
- ✦ Vacuum System - High-precision vacuum gauge.
- ✦ Set vacuum pump start and stop required condenser temperature Oil mist filter.



**Vacuum Pump**

## Lyophilizer Freeze Dryer

HSN Code : 84193300

**SPECIFICATIONS**




MODEL	LMFD61	LMFD62	LMFD63	LMFD64	LMFD83	LMFD84
Condenser Temperature	-60°C	-60°C	-60°C	-60°C	-80°C	-80°C
Freeze Drying Area	0.12m <sup>2</sup>	0.094m <sup>2</sup>	0.12m <sup>2</sup>	0.094m <sup>2</sup>	0.12m <sup>2</sup>	0.094m <sup>2</sup>
Freeze Dryer with	-	stopper	manifold	manifold & stopper	manifold	manifold with stopper
Tray Size	200mm x 4	200mm x 3	200mm x 4	200mm x 3	200mm x 4	200mm x 3
Vacuum Pressure	<5Pa		<10Pa			
Refrigeration system	Single Cascade			Dual Cascade		
Make	LABMAN					
Display	7 " Touch Screen Display					
Tray Spacing	70mm					
Ice Condenser Capacity	3L/24h					
Ambient Temperature	15°C ~ 25°C					
Relative Humidity	≤ 70%					
Defrost	Heating Coil					
Vacuum Pump	Standard Supply					
Vacuum Pump Type	Double Stage Oil-Lubricated Rotary Vane Vacuum Pump					
Vacuum Pump Rotary Speed	1400 RPM					
Vacuum Pump Oil Capacity	0.8ltr.					
Vacuum Pump Noise Level	54dB					
Vacuum Pump Weight	25kg					
Power	950W					
Power Supply	220-240V / 50Hz					
Instrument Dimension (LxWxH)	393 x 500 x 450 mm (Without Chamber)					
Dimensions (LXWxH) (Main Instrument)	585 x 530 x 585	585 x 550 x 605	585 x 530 x 580	575 x 560 x 605	795 x 570 x 670	810 x 570 x 670mm
Dimensions Accessories Box (LXWxH)	780 x 410 x 555	785 x 410 x 550	785 x 405 x 555	785 x 410 x 550mm		
Dimensions Vacuum Pump (LXWxH)	770 x 320 x 360	770 x 320 x 365	775 x 325 x 365	765 x 320 x 360	775 x 325 x 365	770 x 325 x 365mm
Total Gross Weight (3 Wooden Box)	102kg	111kg	111kg	120kg	144kg	150kg

\* Specifications are subject to change without notice.

Vacuum Pump



## STANDARD ACCESSORIES

SR. NO.	PHOTO	ACCESSORIES NAME	LMFD61	LMFD62	LMFD63	LMFD64	LMFD83	LMFD84
1		Tray $\varnothing$ 200mm	4 pcs.	3 pcs.	4 pcs.	3 pcs.	4 pcs.	3 pcs.
2		Drying Rack	1 pc.	3 trays rack 1 pc.	1 pc.	3 trays rack 1 pc.	1 pc.	3 trays rack 1 pc.
3		Cylinder Drying Chamber	1 pc.	-	-	-	-	-
4		Cylinder Drying Chamber	-	1 pc.	1 pc.	1 pc.	1 pc.	1 pc.
5		Stopper	-	-	-	1 pc.	-	1 pc.
6		Sealing Ring (only Manifold Type)	-	-	1 pc.	1 pc.	1 pc.	1 pc.
7		Flask -100ml (150ml-Optional)	-	-	8 pcs.	8 pcs.	8 pcs.	8 pcs.
8		8pcs. Manifold Cover	-	-	1 pc.	With Stopper Handle 1 pc.	1 pc.	With Stopper Handle 1 pc.
9		Valve, Rubber, 3/4", Vacuum	-	-	8 pcs.	8 pcs.	8 pcs.	8 pcs.
10		Vacuum Pump	1 pc.	1 pc.	1 pc.	1 pc.	1 pc.	1 pc.