

Model: MDF-150H128

(Version: 2024-5)



Applications

The -150°C ultra-low temperature freezers are designed for the long-term preservation of viruses, germs, vaccines, biological tissues and organs, special food, medicines, reagents, etc.

Features

- Accurate temperature controller, setting temperature range is -40 ~ -150°C, accuracy 0.1 °C.
- Suggested ambient temperature: +10~30°C.
- Insulated inner door to ensure good temperature uniformity.
- 304 SS inner chamber for friendly use and easy cleaning.
- Tecumseh compressor to ensure excellent stability of the cooling system.
- Patented refrigeration technology, high-efficiency mixed gas for the cooling system.

Security

- Safety door lock to prevent unauthorized access.
- Visual and audible alarm system: High/low temperature, sensor failure, controller error.
- Power failure protection: turn-on delay of the cooling system after power failure.
- Controller error protection: the cooling system will remember the normal working cycle and keep working depending on this memory when the controller or two sensors failed.

Humanized design

- Casters with stoppers for easy moving and fixation.
- Special-designed service-free drainage system.

Optional parts

Test hole, Chart recorder, Data logger, Cold storage racks and boxes.





Specifications

Model NO.	MDF-150-128	
Main Spec	sifications	
Temperature Range	-40 ~ -150 °C	
Ambient Temperature	10~30°C	
Capacity (L/Cu. Ft.)	128 / 4.52	
Interior Dimensions (W×D×H) mm	500×450×578	
Exterior Dimensions (W×D×H) mm	1560×957×1178	
Weight	245 kgs	
Noise	55 dB	
Storage		
Cold Rack (pcs)	10×1 / 9	
2' Cold Box (pcs)	90	
0.5~2ml Cryo Vails (pcs)	9,000	
Control ar	nd Power	
Controller	Microprocessor	
Display	7' Touch Screen	
Sensor	PT100	
Voltage and Frequency	220V~240V, 50Hz	
Power	3125 W	
Electric Current	14.2 A	
Power Consumption (kWh/24h)	38	
Audible and \	/isual Alarms	
High / Low Temp. Alarm	Yes	
Sensor Error Alarm	Yes	
Controller Error Alarm	Yes	
Abnormal Voltage Alarm	Yes	
Abnormal Ambient Temp. Alarm	Yes	
Filter Net Clean Alarm	Yes	
Condenser Error Alarm	Yes	
Refrige	Refrigeration	
Refrigeration Type	Direct Cooling	
Defrost	Manual	
Compressor (Brand/pcs)	TECUMSEH / 1	
Refrigerant / Weight (kgs)	R5001 / 2015g	
Cabinet		
Door (pcs)	Foamed Solid Door / 1	
Inner Door (pcs)	XPS Plate / 1	
Interior Cabinet Material	304 Stainless steel	
Exterior Cabinet Material	Coated Steel	
Insulation Material	PURF (δ200mm)	
Door Lock	Optional	
Test Hole (pcs)	Φ25mm / 1	
Fixed / Levelling Castors (pcs)	0 / 6	
Access	sories	
Voltage Stabilizer	Optional	
USB Data Download Port	Yes	
Remote Alarm Port	Yes	
RS232 / RS485 Port	Optional	
Temperature Datalogger	Optional	
Temperature Chart Recorder	Optional	
Protective Gloves	Optional	
LN2/CO2 Backup System	Optional	

LN2 Filling Tank for Backup System	Optional
Shipping	
Package	Plywood box with pallet
Shipping Weight	340 kgs
Shipping Size (W×D×H)	1637×970×1383
Shipping Volume	2.2 CBM