

-150°C Cryogenic Freezer

The -150 °C cryo freezer provides a safe, convenient and economical alternative for long term storage for a variety of biological specimens at cryogenic temperature (below -135°C).

Compared with liquid nitrogen containers, there is no need to supply liquid nitrogen for mechanical freezers. It is easier to use and contamination risk caused by liquid nitrogen is avoided.

ANTECH adopted innovative 2-compressor cascade cooling system for its cryogenic freezers, realizing lower power consumption, faster cooling rate and lower noise level.



LOW CO2 EMISSIONS



NATURAL REFRIGERANT



CFC /HCFC FREE



HIGH/LOW TEMPERATURE ALARM



POWER FAILURE ALARM



DIRECT COOLING



SAFETY DOOR LOCK

PERFORMANCE

- Optimized cooling system & high efficiency hydrocarbon refrigerant.
- SECOP brand compressor & EBM brand blower.
- High density polyurethane forming for insulation.

ALARMS

- High temperature
- Low temperature
- Power failure
- Sensor error

ERGONOMIC DESIGN

- Forming inner doors for better insulation and less frost
- SUS304 interior for easy cleaning
- Ultra-quiet design reduces noise level
- Optional slim rack for convenient operation

SAFETY

- Safety door lock, preventing unauthorized access
- Access port for additional temperature probe
- Optional online monitoring system
- Optional CO2/LN2 backup system

ENVIRONMENT FRIENDLY

- Natural refrigerant compliant with EPA and SNAP non-ozone depleting mandates
- CFC-Free polyurethane foaming insulation
- High efficiency cooling system for lower energy consumption and less carbon emission

-150°C Cryo Freezer



Model	MDF-150C118	MDF-150C208	
Main specifications	Type	Chest (horizontal)	Chest (horizontal)
	Cooling technology	2-compressor cascade system	2-compressor cascade system
	Temperature setting range (°C)	-120 ~ -150	-120 ~ -150
	Climate type	N	N
	Capacity (L)	118	258
	2" box storage Qty (Pcs)	80	172
	Net weight (KGs)	165	280
	Internal W×D×H (mm)	500×400×560	780×500×660
	External W×D×H (mm)	1270×780×965	1510×885×1095
	Door entrance limit (≥mm)	780	885
	Cooling type	Direct	Direct
	Defrost	Manual	Manual
	Number of compressor	2	2
Control & display system	Controller	Microprocessor	Microprocessor
	Display	LED	LED
	Temperature display accuracy	0.1	0.1
Power	Power supply (V/Hz)	220V/50Hz; 220V/60Hz; 120V/60Hz	220V/50Hz
	Rated power (W)	1900	2800
Alarm functions	Visible/audible alarm	Yes	Yes
	High/Low temperature	Yes	Yes
	Power failure	Yes	Yes
	Sensor failure	Yes	Yes
Accessories	Inner door	1	2
	Casters	6	6
	Test access port	Φ 20mm x 1	Φ 20mm x 1
	Safety door lock	Yes	Yes
	Freezer rack	Optional	Optional
	Rack model	CFH-4-2, 1×4	CFH-4-2, 1×4
	Rack Qty	20	43
LN2 backup system	Optional	Optional	
Material	Exterior	Pre-coated steel	Pre-coated steel
	Interior	SUS304	SUS304
	Insulation	Polyurethane	Polyurethane
	Cabinet insulation thickness (mm)	150mm	150mm
	Outer door thickness (mm)	100mm	100mm
	Compressor brand	SECOP	SECOP
Shipping	Gross weight (KGs)	118	278
	Packing W×D×H (mm)	1340×865×1110	1580×970×1240
	Volume (m ³)	1.29	1.9