

-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
- Stainless steel 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
Basic	Type	Chest	Chest
	Cooling technology	2-compressor cascade system	2-compressor cascade system
	Temperature setting range (°C)	-125 ~ -150	-125 ~ -150
	Climate type	N	N
	Capacity (L)	118	258
	2" box storage Qty (Pcs)	54	165
	Cooling type	Direct	Direct
	Defrost type	Manual	Manual
	Door entrance limit (≥mm)	780	885
	Number of compressor	2	2
	Compressor brand	SECOP	SECOP
Control	Controller	Microprocessor	Microprocessor
	Display	LED	LED
	Temperature display accuracy	0.1	0.1
	Cloud monitoring (Wi-Fi)	○	○
Power	Power supply (V/Hz)	220/50; 220/60; 120/60	220V/50Hz
	Rated power (W)	1800; 1800; 1800	2450
	Rated current (A)	10.0; 10.0; 19.8	15.0
Alarm	Visible/audible alarm	●	●
	High/Low temperature	●	●
	Power failure	●	●
	Sensor failure	●	●
Accessories	Safety door lock	●	●
	Inner door	1	2
	Test access port	Φ 20mm x 1	Φ 20mm x 1
	Freezer rack	○	○
	Rack model	CFC-9-2, 1×9	CFC-11-2, 1×11
	Rack Qty	6	15
	Casters	6	6
	LN2 backup system	○	○
Material	Exterior	Pre-coated steel	Pre-coated steel
	Interior	Stainless steel	Stainless steel
	Insulation	Polyurethane	Polyurethane
	Cabinet insulation thickness (mm)	150mm	150mm
	Outer door thickness (mm)	105mm	105mm
Weight & size	Net weight (kg)	165	232
	Gross weight (kg)	208	292
	Internal W×D×H (mm)	540×400×560	780×500×660
	External W×D×H (mm)	1275×795×990	1510×885×1095
	Packing W×D×H (mm)	1340×860×1140	1570×960×1230
	Volume (m³)	1.31	1.85