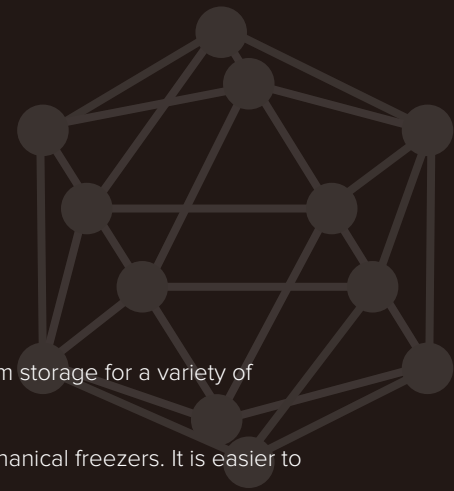


-150°C Cryogenic Freezer



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.



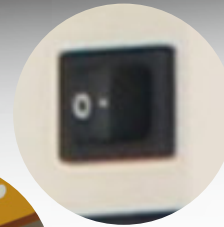
▶ Remote alarm contact



▶ Touch screen controller



▶ USB port



▶ Switch for backup battery



▶ Door lock



LOW CO2 EMISSIONS



NATURAL REFRIGERANT



CFC /HCFC FREE



HIGH/LOW TEMPERATURE ALARM



POWER FAILURE ALARM



DIRECT COOLING



SAFETY DOOR LOCK

Touch screen controller

Smart control system is adopted for easy observation and convenient operation.

- 7" LCD touch screen: sensitive touch, user-friendly HIM
- Large display of chamber temperature, easy observation at distance
- Status icon to show freezer situation at first sight: normal or abnormal
- Password administration to prevent unauthorized change of settings
- Show temperature curve on touch screen
- Temperature data storage and USB port for download



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-150C138	MDF-150C226
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)	138	226
	2" box storage Qty (Pcs)	96	160
	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
Display		LED	LED
Temperature display accuracy		0.1	0.1
Cloud monitoring (Wi-Fi)		○	○
Power	Power supply (V/Hz)	220/50, 220/60	220/50, 220/60
	Rated power (W)	1438W, 1550W	1548W, 1672W
	Rated current (A)	7.4A, 7.71A	7.65A, 7.98A
Alarm	Visible/audible alarm	●	●
	High/Low temperature	●	●
	Power failure	●	●
	Sensor failure	●	●
Accessories	Safety door lock	●	●
	Inner door	2	2
	Test access port	Φ19mm x 2	Φ19mm x 2
	Freezer rack	○	○
	Rack model	CFC-8-2	CFC-8-2
	Rack Qty	12	20
	Casters	4	4
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)	190	230
	Gross weight (kg)	230	280
	Internal W×D×H (mm)	630×440×500 (mm)	780×580×500 (mm)
	External W×D×H (mm)	1360×795×1005 (mm)	1510×935×1005 (mm)
	Volume (m ³)	142	232

● Basic equipment ○ Optional / Not available