

-40°C Deep Freezer

Antech -40°C deep freezer is designed to store temperature sensitive medical products and biological materials at accurate controlled temperature. Available with 3 capacities: 90 liter under-counter freezer, 270 liter single-door freezer and 450 liter two-door freezer. It is an ideal product to store plasma, reagent and other biomedical products which require to be stored at -20~-40°C temperature.



LOW CO2
EMISSIONS



NATURAL
REFRIGERANT



CFC /HCFC
FREE



HIGH/LOW
TEMPERATURE ALARM



USB PORT



SAFETY DOOR
LOCK

PERFORMANCE

- High-precision microprocessor temperature control system with 0.1°C display accuracy
- Digital display show freezer working condition and alarm code
- 3-Channel sensor for control, display and ambient temperature

ERGONOMIC DESIGN

- ABS drawers for convenient storage
- Self-close door for easy operation
- Ultra-quiet design reduces noise level

ENVIRONMENT FRIENDLY

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

ALARMS

- High temperature
- Low temperature
- Open door
- Power failure
- Sensor error
- Low battery

SAFETY

- Build-in data storage and USB port for download
- Safety door lock, preventing unauthorized access
- Access port for additional temperature probe
- RS485 port and remote alarm contacts

-40°C

Deep Freezer



	Model	MDF-40U90	MDF-40U270	MDF-40U450
Basic	Type	Under-counter	Upright	Upright
	Temperature range (°C)	-20~-40	-20~-40	-20~-40
	Cooling type	Direct cooling	Direct cooling	Direct cooling
	Capacity (L)	90	270	450
	Defrost type	Manual	Manual	Manual
	Climate type	N	N	N
	Refrigerant	R290	R290	R290
	Number of compressor	1	1	2
Control	Controller	Microprocessor	Microprocessor	Microprocessor
	Display	LED digital	LED digital	LED digital
	Display accuracy	1	1	0.1
	USB port	●	●	●
	RS485 port	●	●	●
	Cloud monitoring (Wi-Fi)	○	○	○
Power	Power supply (V/Hz)	220/50; 220/60; 120/60	220/50; 220/60; 120/60	220/50; 220/60; 120/60
	Rated power (W)	131; 170; 170	255; 210; 179	346; 375; 305
	Rated current (A)	1.3; 1.8; 4.2	2.8; 2.2; 4.2	4.5; 3.7; 5.3
Alarm	Visible/audible alarm	●	●	●
	High/low temp	●	●	●
	Sensor failure	●	●	●
	Door open	●	●	●
	Low battery	●	●	●
	Power failure	●	●	●
	Remote alarm contact	●	●	●
	Door lock with key	●	●	●
Accessories	Door	Solid door x 1	Solid door x 1	Solid door x 2
	Test access port	Φ 25mm x 1	Φ 25mm x 1	Φ 25mm x 2
	Drawers	3	7	12
	Adjustable foot	2	2	/
	Caster	2	/	4
Material	Exterior	Pre-coated steel	Pre-coated Steel	Pre-coated steel
	Interior	Pre-coated aluminum	Pre-coated aluminum	Pre-coated aluminum
	Insulation	Polyurethane	Polyurethane	Polyurethane
Weight & size	Net weight (kg)	54	98	144
	Gross weight (kg)	67	115	172
	Internal W×D×H (mm)	500×485×532	500×460×1235	650×570×627×2
	External W×D×H (mm)	660×645×815	746×700×1792	856×789×1960
	Packing W×D×H (mm)	722×697×890	835×775×1910	960×870×2175
	Volume (m³)	0.45	1.24	1.82