-40°C Laboratory 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℃ 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-quite 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
- Hot condenser
- 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
Laboratory Freezer

Model	MDF-40U90			MDF-40U270			MDF-40U450		
Main specifications									
Type	Under-counter			Upright			Upright		
Temperature range (℃)	-20～-40			-20～-40			-20～-40		
Cooling type	Direct cooling			Direct cooling			Direct cooling		
Defrost	Manual			Manual			Manual		
Climate type	N			N			N		
Capacity (L)	90			270			450		
Internal W*D*H (mm)	500*485*532			500*460*1235			650*570*627x2		
External W*D*H (mm)	645*660*815			640*700*1792			735*810*1960		
Weight (KGs)	54			90			144		
Refrigerant	R290			R290			R290		
Number of compressor	1			1			2		
Control system									
Controller	Microprocessor			Microprocessor			Microprocessor		
Display	LED digital			LED digital			LED digital		
Display accuracy	1			1			0.1		
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	172	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
Data									
USB port	Yes			Yes			Yes		
Cloud monitoring (Wi-Fi)	CryoMonitor 2000TF, optional			CryoMonitor 2000TF, optional			CryoMonitor 2000TF, optional		
RS485 port	Yes			Yes			Yes		
Alarm functions									
Visible/audible alarm	Yes			Yes			Yes		
High/low temp	Yes			Yes			Yes		
Sensor failure	Yes			Yes			Yes		
Door open	Yes			Yes			Yes		
Low battery	Yes			Yes			Yes		
Power failure	Yes			Yes			Yes		
Remote alarm contact	Yes			Yes			Yes		
Other feature									
Door lock with key	Yes			Yes			Yes		
Adjustbale foot	2			2			N/A		
Caster	2			2			4		
Test access port	Φ25mm x 1			Φ25mm x 1			Φ25mm x 2		
Drawers	3			7			12		
Door Qty	1			1			2		
Material									
Exterior cabinet material	Pre-coated steel			Pre-coated Steel			Pre-coated steel		
Interior cabinet material	Pre-coated aluminum			Pre-coated aluminum			Pre-coated aluminum		
Door type	Solid door			Solid door			Solid door		
Insulation material	Polyurethane			Polyurethane			Polyurethane		
Shipping									
Gross weight (KGs)	67			103			172		
Packing W*D*H (mm)	765*735*935			757*717*1865			895*820*2135		
Volume (m³)	0.53			1.0			1.57		