

# -40°C Deep Freezer

## TC-200 Controller



Microprocessor electronic controller TC-200, fitted with dual LED screen to display inner chamber real time temperature and key working status including controller lock status, cooling status, power supply indicator, etc.. It is installed at the eye level, convenient for reading all data and operating on controller.



LOW CO2  
EMISSIONS



NATURAL  
REFRIGERANT



CFC /HCFC  
FREE



USB PORT



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.
- Forming inner doors with door seal for better insulation and less frost.

### ERGONOMIC DESIGN

- Adjustable stainless steel shelves to load different size products
- Ultra-quiet design reduces noise level

### 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

### ALARMS

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

### SAFETY

- Build-in data storage and USB port for download
- Password protection avoids key parameters unauthorized change
- Safety lockable door, preventing unauthorized access
- Access port for additional temperature probe
- Remote alarm contacts
- Optional online monitoring system



- ▶ **USB port**  
Temperature data storage and download



- ▶ **Lockable door handle**  
For easy operation and prevent unauthorized access



- ▶ **Adjustable shelves**  
Convenient storage of different size products made in stainless steel



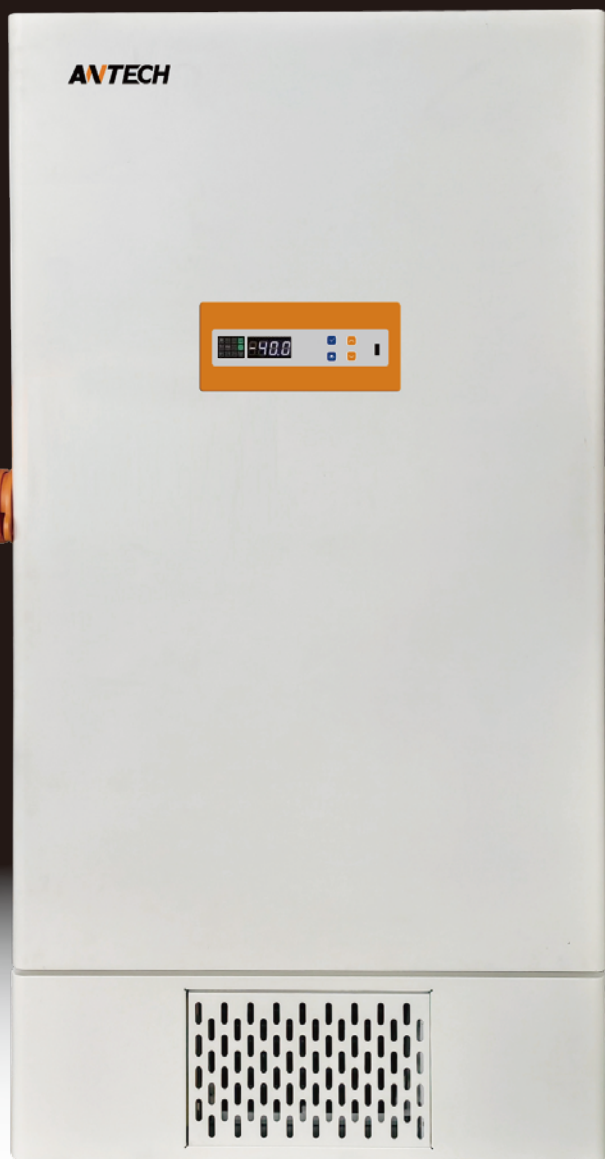
- ▶ **Pressure release port**  
Manual pressure release port for easy re-opening of outer door in a shorter time



- ▶ **Access port**  
One access ports at side and back of freezer, for easy access of additional temperature probe



- ▶ **Remote alarm contact**  
Sending signal to a remote alarm system



# -40°C

## LabSafe series



	Model	MDF-40U280	MDF-40U360	MDF-40U620	MDF-40U700
Main specifications	Type	Upright	Upright	Upright	Upright
	Temperature range (°C)	-20~-40	-20~-40	-20~-40	-20~-40
	Cooling type	Direct cooling	Direct cooling	Direct cooling	Direct cooling
	Defrost	Manual	Manual	Manual	Manual
	Climate type	N	N	N	N
	Capacity (L)	283	361	620	707
	Internal W*D*H (mm)	460×470×1310	460×600×1310	740×640×1310	740×730×1310
	External W*D*H (mm)	715×725×1910	715×855×1910	995×895×1910	995×985×1910
	Weight (KGs)	115	140	181	205
	Refrigerant	R290	R290	R290	R290
	Number of compressor	1	1	1	1
Control system	Controller	TC-200	TC-200	TC-200	TC-200
	Display	LED digital	LED digital	LED digital	LED digital
Data memory	Display accuracy	0.1	0.1	0.1	0.1
	High/low temp check	●	●	●	●
	USB port	●	●	●	●
Power	Power supply (V/Hz)	220/50; 220/60; 120/60	220/50; 220/60; 120/60	220/50; 220/60; 120/60	220/50; 220/60; 120/60
	Rated power (W)	350	400	550	550
Alarm	Visible/audible alarm	●	●	●	●
	High/low temp	●	●	●	●
	Sensor failure	●	●	●	●
	Door open	●	●	●	●
	Low battery	●	●	●	●
	Power failure	●	●	●	●
	Remote alarm contact	●	●	●	●
Accessories	External door	1	1	1	1
	Inner door	4	4	4	4
	Safety door lock	Yes	Yes	Yes	Yes
	Adjustable shelf	3	3	3	3
	Test access port	Φ 20mm x 2	Φ 20mm x 2	Φ 20mm x 2	Φ 20mm x 2
	Caster	4	4	4	4
Material	Exterior	Pre-coated Steel	Pre-coated Steel	Pre-coated steel	Pre-coated steel
	Interior	Pre-coated steel	Pre-coated steel	Pre-coated steel	Pre-coated steel
	Outer door	Forming door	Forming door	Forming door	Forming door
	Inner door	Forming door	Forming door	Forming door	Forming door
	Cabinet insulation thickness (mm)	90	90	90	90
	Outer door insulation thickness (mm)	80	80	80	80
	Insulation	Polyurethane	Polyurethane	Polyurethane	Polyurethane
	Compressor brand	SECOP	SECOP	SECOP	SECOP
	Blower brand	EBM	EBM	EBM	EBM
Shipping	Gross weight (KGs)	138	172	220	265
	Packing WxDxH (mm)	735×760×2120	735×890×2120	1015×930×2120	1015×1020×2120
	Volume (m³)	1.18	1.39	2.27	2.49