-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.
- Inner doors to reduce cooling loss when open door.

ALARMS

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

ERGONOMIC DESIGN

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

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

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



USB port
Temperature data storage and download



Lockable door handle
For easy operation and prevent unauthorized access

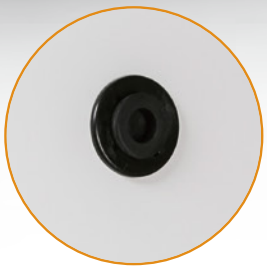




Adjustable shelves
Convenient storage of different size products made in stainless steel



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
Basic	Type	Upright	Upright	Upright	Upright
	Temperature range (℃)	-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
	Refrigerant	R290	R290	R290	R290
	Number of compressor	1	1	1	1
	Compressor brand	SECOP	SECOP	SECOP	SECOP
	Blower brand	EBM	EBM	EBM	EBM
Control	Controller	TC-200	TC-200	TC-200	TC-200
	Display	LED digital	LED digital	LED digital	LED digital
	Display accuracy	0.1	0.1	0.1	0.1
	High/low temp check	●	●	●	●
	USB 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	220/50; 220/60; 120/60
	Rated power (W)	350	400	550	550
Alarm	Visible/audible alarm	●	●	●	●
	High/low temp	●	●	●	●
	Remote alarm contact	●	●	●	●
	Sensor failure	●	●	●	●
	Door open	●	●	●	●
	Low battery	●	●	●	●
	Power failure	●	●	●	●
Accessories	External door	1	1	1	1
	Inner door	4	4	4	4
	Safety door lock	●	●	●	●
	Test access port	Φ19mm x 2	Φ19mm x 2	Φ19mm x 2	Φ19mm x 2
	Adjustbale shelf	3	3	3	3
	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
	Insulation	Polyurethane, 80mm	Polyurethane, 80mm	Polyurethane, 80mm	Polyurethane, 80mm
Weight & size	Net weight （kg）	115	140	181	205
	Gross weight (kg)	138	172	220	265
	Intermal 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
	Packing W×D×H (mm)	735×760×2120	735×890×2120	1015×930×2120	1015×1020×2120
	Volume (m^3)	1.18	1.39	2.27	2.49