-86℃ ULT Freezer

EcoTouch Series ULT freezer

SUS304 Interior
durable use and easy clean

7" LCD Eco touch screen
Friendly interface freezer information

On-board data storage Store up to 15
years of temperature and event data

Ergonomic door padlock-compatible,
integrated key lock

Pressure release port
for quick re-entries after door opening

USB port
download freezer temperature and event data

Built-in whiteboard
transfer message easily

Washable filter
provides protection against
dust on the condenser

Remote alarm contact
output compatible with external
alarm and monitoring systems

Optional seven day chart recorder

Castor with breaker
for easy installation

The -86℃ ULT freezer is specially designed for a stable ultra low temperature storage condition, to store germs, erythrocytes, leucocytes, viruses and many other biological materials. Installations can be found in research institutes, pharmacy industry, clinical labs, blood banks and laboratories in electronic & chemical plants.

A SMART freezer

- 7" touch screen, easy observation & convenient operation
- Checking history temperature curve and alarm record on screen
- Self-diagnostic, automatic check & alarm for key components
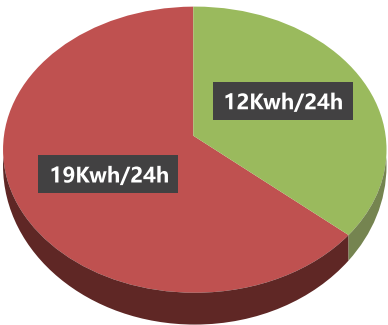- Optional USB port, download data conveniently

A GREEN freezer

- Non greenhouse gas is used, an environmental friendly freezer.
- Hydrocarbon two compressor cascade cooling system for super low power consumption.

Power consumption of traditional freezer & energy-saving freezer

- energy saving freezer
- traditional freezer

12Kwh/24h

19Kwh/24h

Electricity charge for a 600 liter ULT freezer

Product	Power consumption (Kwh/24h)	Ambient Temperature	1-year charge	5-year charge	
Traditional freezer	19.00	25℃	€ 1,733.75	€ 8,668.75	€ 17,337.50
Antech energy-saving freezer	12.00	25℃	€ 1,095.00	€ 5,475.00	€ 10,950.00
Value saved			€ 638.75	€ 3,193.75	€ 6,387.50

A USER-FRIENDLY freezer

- SUS304 interior for easy cleaning & rust free
- White board to record a message conveniently
- Document groove to put paper, create a stylish lab
- Optional electric lock for safety and convenient administration
- Maximum sample storage capacity with an optimum footprint
- Special noise reduction design, a real quite lab partner

▲ Outer door latch with padlock panel

▲ SS304 inner door latch

▲ SS304 inner cabinet, figure marked strip and sensor

▲ Protection against Wall

▲ Washable filter

▲ Heavy-duty caster with lock

▲ Testing port

▲ 7-day circular chart recorder is Optional

Specification

	Model	MDF-86U458T	MDF-86U588T	MDF-86U728T	MDF-86U838T
Technical Data	Type	Upright	Upright	Upright	Upright
	Capacity（L/cu ft）	408/14.41	588/20.76	728\25.70	838/29.59
	Inner doors	2 pcs, forming door, SUS304	2 pcs, forming door, SUS304	2 pcs, forming door, SUS304	2 pcs, forming door, SUS304
	Shelves	3 pcs, SUS304	3 pcs, SUS304	3 pcs, SUS304	3, made in SUS304
	Inner chamber material	SUS304	SUS304	SUS304	SUS304
	Cooling type	Direct cooling	Direct cooling	Direct cooling	Direct cooling
	Refrigerant	Hydrocarbon, CFC Free, Non greehouse	Hydrocarbon, CFC Free, Non greehouse gas	Hydrocarbon, CFC Free, Non greehouse gas	Hydrocarbon, CFC Free, Non greehouse gas
	Noise level (dB)	50	51	52	53
Temperature	Ambient temperature（℃）	10~32℃	10~32℃	10~32℃	10~32℃
	Temperature range（℃）	-40~-86℃	-40~-86℃	-40~-86℃	-40~-86℃
Cooling & Controller	Cooling System	Two compressor cascade system	Two compressor cascade system	Two compressor cascade system	Two compressor cascade system
	Compressor Brand	SECOP	SECOP	SECOP	SECOP
	Sensor	PT100	PT100	PT100	PT100
	Controller	Microprocessor	Microprocessor	Microprocessor	Microprocessor
	Display & Control	7" Touch Screen	7" Touch Screen	7" Touch Screen	7" Touch Screen
Electronic parameter	Voltage/Frequency	220V/50Hz	220V/50Hz	220V/50Hz	220V/50Hz
	Power (W)	845	815	935	890
	Power Consumption (kWh/24h)	11.6	12	13.28	13.86
Vials load	2ml Vials (pcs)	19200	40000	50000	60000
Size & Weight	Internal (W*D*H) mm	606×575×1180	606×738×1310	963×558×1350	894×718×1310
	External (W*D*H) mm	891×992×1945	891×1155×1995	1248×970×1994	1160×1172×1995
	Packing (W*D*H) mm	954×955×2094	954×955×2094	1320×975×2185	1212×1098×2185
	Net/Gross weight (kg)	215/245	249/275	320/350	275/305
Alarm System	High/low temperature	✓	✓	✓	✓
	Power off	✓	✓	✓	✓
	Abnormal voltage	✓	✓	✓	✓
	Sensor malfunction	✓	✓	✓	✓
	Filter screen check	✓	✓	✓	✓
	Temperature controllermalfunction	✓	✓	✓	✓
	Backup battery malfunction	✓	✓	✓	✓
	Condenser malfunction	✓	✓	✓	✓
	Ambient temperature	✓	✓	✓	✓
	Door ajar	✓	✓	✓	✓
Accessories	Caster	4	4	4	4
	Test hole/Diameter	1/25mm	1/25mm	1/25mm	1/25mm
	Remote alarm contact	✓	✓	✓	✓
	RS232/485 port	✓	✓	✓	✓
	USB Port	Optional	Optional	Optional	Optional
	Temperature recorder	Optional	Optional	Optional	Optional
	Freezer racks	Optional	Optional	Optional	Optional
	CO2 backup system	Optional	Optional	Optional	Optional
	LN2 backup system	Optional	Optional	Optional	Optional

ANTECH