





Ultra Low Temperature Deep Freezer
TI-HL-678S



Cascade cooling system -86°C ULT freezer



Targeted Refrigeration • Fast Refrigeration Energy-saving & Environmentally Friendly Awarded with the Second Prize under State Technological Invention Award



0.5 H

Temp. fluctuation

Pulling down to -80°C

Temp. recovery after door opened for 1 min

*Typical freezer data based on internal testing with freezer set point at -80°C and ambient temperature at 22°C.

TI-HL-678S

Features



-40~-86

Temperature control system Display temp. in 0.1°C increments



Touch screen 10"LCD touch screen



Industrial compressor



CE certificate

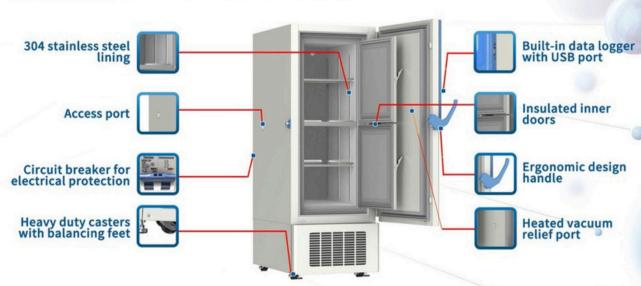


CO2 back up system Optional for extra security for sample



Alarms system 10 kinds of alarm functions

Structure



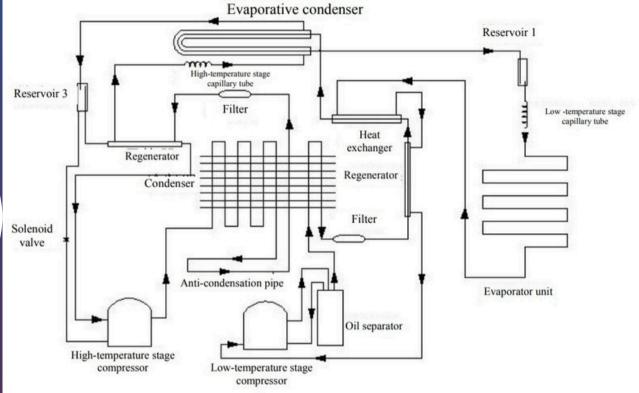


Features:

- Two stages cascade cooling technology
- Foam inner doors
- Built-in vacuum insulation board and triple independent silicone sealing strip design
- Inverter technology, two inverter compressors
- Equipped with 4 heavy casters and 2 balancing feet for easy movement and fixation of the equipment
- Temperature uniformity of ±4 °C
- Hydrocarbon refrigerant, which are R290 and R170 as natural gas
- Stainless steel (SUS304) as the internal material
- 5H pulling down to -80°C
- 8.7Kwh daily consumption
- High-definition and easy-handling control panel to set the temperature range from -40°C to -86°C with digital temperature display precision in 1°C
- Lockable door, keyboard lock and password access prevents any unauthorized access and operation
- Adjustable 3 stainless steel shelves with inner door and double silicon gasket seal

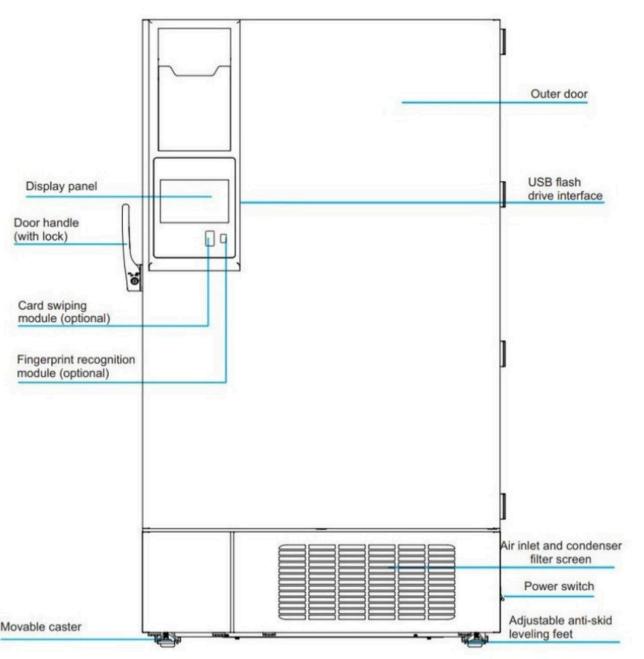
Schematic Diagram of Refrigeration

Principle of Two-stage Cascade Refrigeration System





Product Characteristics:





Model: TI-HL-6785 L-3985

Model Model. H-FIL-0/05		
Туре	Vertical	
Internal size(W*D*H)mm	750*696*1266 mm	
External size(W*D*H)mm	1090*1025*1955 mm	
Storage Capacity (L)	678 liters	
Temperature range	-40∼-86°C	
Operating Temperature Range	+16-32°C	
Temperature display accuracy	0.1°C	
Cooling Technology	Cascade	
Net Weight	308 Kgs	
Cooling Type	Static/Direct	
Insulation thickness(mm)	Dual Polyurethane (130mm) +VIP Plus Vacuum Insulation Panels	
Controller	Microprocessor	
DISPLAY FEATURES		
Display Size	10"HD	
Compressor	Inverter Technology 2 nos	

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Compressor	Inverter Technology, 2 nos
Display Type	Touch Screen
Temperature Graph on Display	YES
Password Protection	YES

	Al	LARMS
	High/Low temperature	YES
	High Ambient temperature	YES
	Power Failure	YES
	Low Battery	YES
	Power Failure	YES
	Door Open	YES
	Battery Back up	48 to 72 hours
	Condenser overheating	YES
	Sensor Failure	YES
	Data logging and	External Connection
	Remote Contact	Yes
	Data Logging	Yes
	Memory Capacity	10 years
	Compressor Make	SECOP
	USB Interface	Yes
	Battery Back up	YES
	Temperature Chart Recorder	Optional

Every 5 minutes

Data Recording

Power	230 Volts
Frequency (Hz)	50/60
Power consumption (kWh/24h)	8.7 KWH
AMP (A)	10 AMP

POWERber of Ø 25 mm

OTHER FEATURES

Defrost Type	Manual
Heated Pressure Equalization Port	YES
Access Port	2 number of Ø 25 mm
Door Handle	Robust Door Handle with lock
Casters	4 nos with anti skid levelling feet
Shelves	3 nos made up of Adjustable Stainless Steel
Inner Door	2 nos
Refrigerant	Hight Stage R 290 and Low Stage 170 Natural Refrigerant
Interior cabinet material	Stainless steel 304
Colour (exterior cabinet)	Painted steel

-40~-86

Access Port

OPTIONAL:

- Chart Recorder
- Co2 Back up System
- Freezer Racks
- Card access or finger print access
- MODBUS Protocol for Data Transfer











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