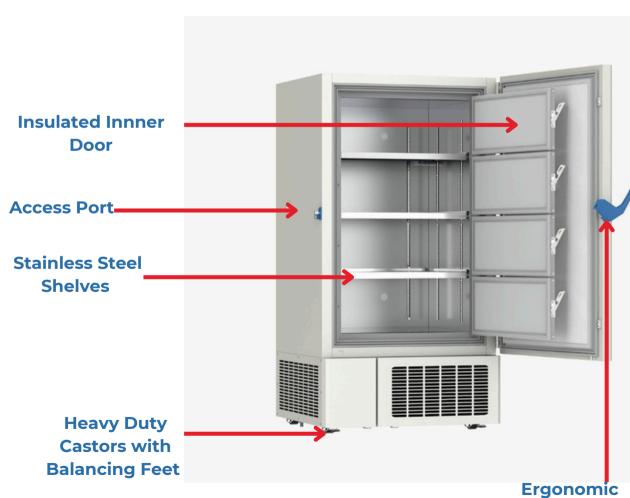


Design Handle



Ultra Low Temperature Deep Freezer TI-HL-1008S







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



4.5



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-1008S

Features



-40 ~ -86

Temperature control system Display temp. in 0.1°C increments



Touch screen 10"LCD touch screen



Industrial compressor



CE certificate

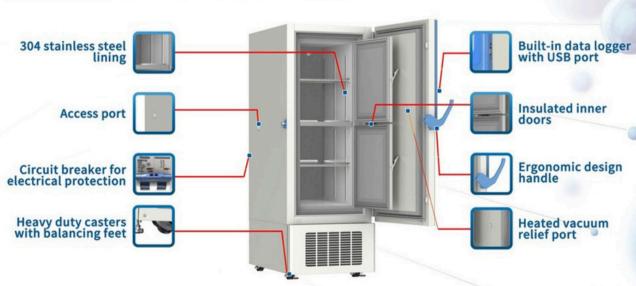


CO2 back up system Optional for extra security for sample



Alarms system 10 kinds of alarm functions

Structure



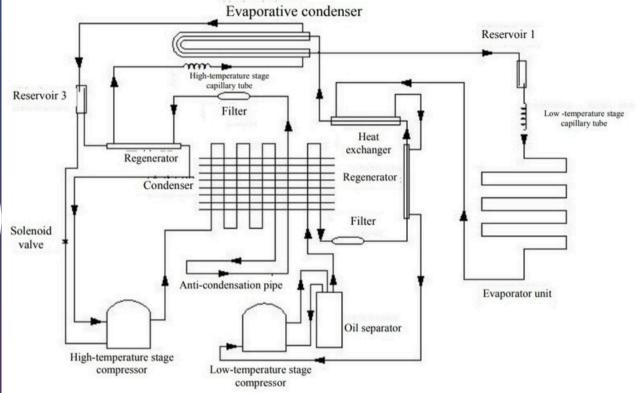


Features:

- 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

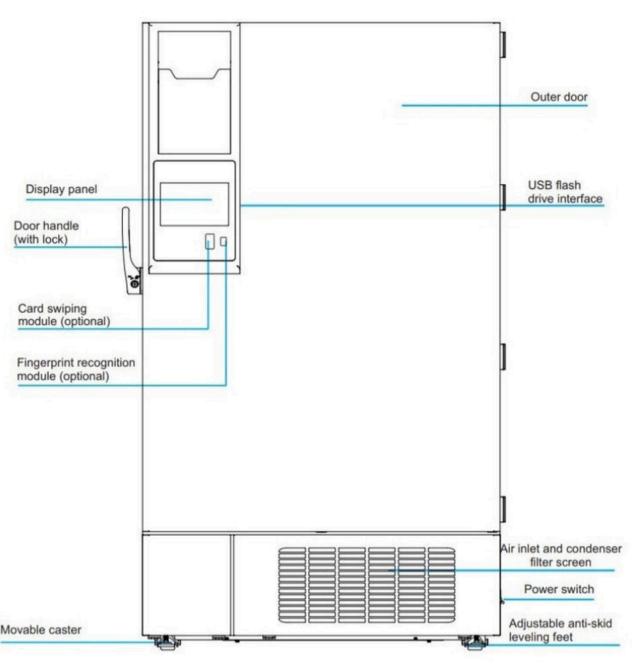
Schematic Diagram of Refrigeration

Principle of Two-stage Cascade Refrigeration System





Product Characteristics:





Model:TI-HL-1008S

model Model III III 10000		
Туре	Vertical	
Internal size(W*D*H)mm	1022*696*1378 mm	
External size(W*D*H)mm	1362*1025*1994 mm	
Storage Capacity (L)	1008 liters	
Temperature range	-40 ~-86°C	
Operating Temperature Range	+16-32°C	
Temperature display accuracy	0.1°C	
Cooling Technology	Cascade	
Net Weight	426 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
Display Type	Touch Screen
Temperature Graph on Display	YES
Password Protection	YES

-40 ~ -86

ALARMS	
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
	High/Low temperature High Ambient temperature Power Failure Low Battery Power Failure Door Open Battery Back up Condenser overheating Sensor Failure Data logging and Remote Contact Data Logging Memory Capacity Compressor Make USB Interface Battery Back up

Every 5 minutes

Data Recording

POWER ber of Ø 25 mm		
Power	230 Volts	
Frequency (Hz)	50/60	
Power consumption (kWh/24h)	8.7 KWH	
AMP (A)	10 AMP	

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	4 nos
Refrigerant	Hight Stage R 290 and Low Stage 170 Natural Refrigerant
Interior cabinet material	Stainless steel 304
Colour (exterior cabinet)	Painted steel



OPTIONAL:

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











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