

Cascade system ULT freezer that consists of two stages cascade cooling technology with absolute hydrocarbon refrigerant, which are R290 and R170 as natural gas. The inverter compressors programmed to help energy savings under long period preservation or provide fast temperature recovery while frequently door open to maintain specimens liveness.



Energy consumption



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 25°C.

DW-HL778S

Features



Cascade system
Two stages cascade system



Touch screen
10" LCD touch screen



Hydrocarbon refrigerant
Environment-friendly natural gas



Inverter technology
Two inverter compressors



Vacuum insulation
VIP insulation foaming



Alarms system
10 kinds of alarm functions

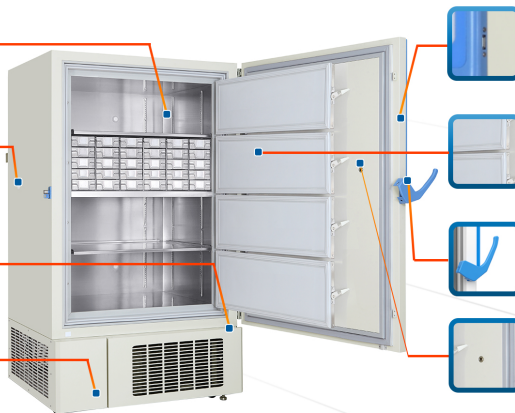
Structure

304 stainless steel interior

Access port

Circuit breaker for electrical protection

Heavy duty casters with leveling feet

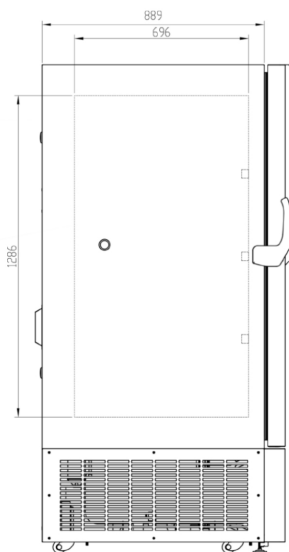
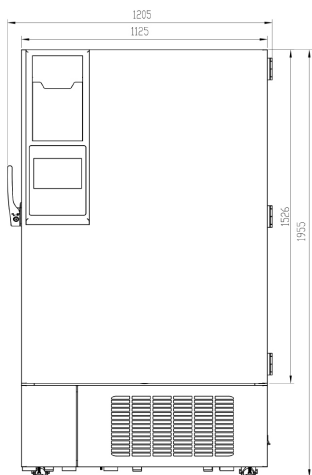


Built-in data logger with USB port

Insulated inner doors

Ergonomic design handle

Heated vacuum relief port



-86°C Ultra-low Temperature Freezer	
Model	DW-HL778S
Capacity	778L/27.5Cu.Ft.
Internal size (W*D*H) mm/inch	865*696*1286/34.0*27.4*50.6
External size (W*D*H) mm/inch	1205*1025*1955/47.4*40.4*77.0
Package size (W*D*H) mm/inch	1320*1155*2171/52.0*45.5*85.5
NW(kgs)	330/420
Performance	
Temperature range	-40~-86°C
Ambient temperature	16-32°C
Cooling performance	-86°C
Climate class	N
Controller	Microprocessor
Display	10" HD Intelligent Touch Screen
Refrigeration	
Compressors	2pcs
Cooling method	Direct Cooling
Defrost mode	Manual
Refrigerants	High stage: R290, Low stage: R170
Insulation thickness(mm)	130
Construction	
External material	Cold rolled steel sheet
Inner material	Stainless steel
Shelves	3(stainless steel)
Access test port	3pcs. Ø 25 mm
Casters	4+(2 leveling feet)
Data Logging/ Interval /Recording time	USB/Record every 5 minutes / 10 years
Interface	Remote alarm contact, RS485
Backup battery	Yes
Alarms	
Temperature	High/Low temperature, High ambient temperature
Electrical	Power failure, Low battery, Battery power detection failure
System	Sensor failure, Main board communication error, Condenser overheating alarm, Door ajar
Accessories	
Freezer Rack Model	ZKL304-552B-CT
Freezer Rack/Box (Quantity)	24/600
Electrical Data	
Power supply(V/Hz)	110-230V/50&60Hz
Rated current (A)	14.76A

Options

Cascade models support following optional features:

- Modbus protocol for data transfer
- Card access or finger print access
- Comform to 21 CFR 11 regulation
- CO2 back up system
- Inkless temperature chart recorder
- Racks & Boxes & Tubes