

Cascade cooling system



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 saving under long period preservation or provide fast temperature recovery while frequently door open to maintain specimens liveness.



4.72 H

Pulling down to -80°C



Temp. recovery after door opened for 1 min

Features

 * Typical freezer data based on internal testing with freezer set point at -80°C and ambient temperature at 25°C.

DW-HL678S



Cascade system
Two stages cascade system



Touch screen 10"LCD touch screen



Hydrocarbon refrigerant Environment-friendly natural gas



Inverter technology
Two inverter compressors

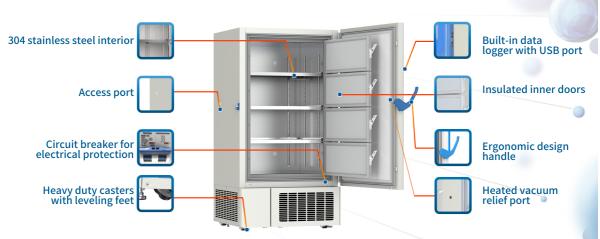


Vaccum insulation
VIP insulation foaming



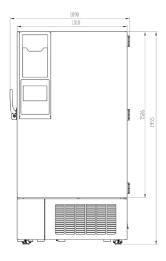
Alarms system 10 kinds of alarm functions

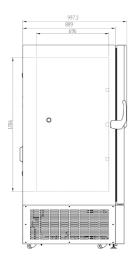
Structure



Dimensions







| Model | DW-HL678S |
|--|---|
| Capacity | 678 |
| Internal size (W*D*H) mm/inch | 750*696*1286/29.53*27.4*50.63 |
| External size (W*D*H) mm/inch | 1090*1025*1955/42.91*40.35*76.97 |
| Package size (W*D*H) mm/inch | 1203*1155*2171/47.36*45.47*85.47 |
| NW(kgs) | 308 |
| 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 | R290/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 |
| | Remote alarm contact, RS485 |
| Interface | Yes |
| Backup battery | res |
| Alarms | |
| Temperature | High/Low temperature, High ambient temperature |
| Physical | Power failure, Low battery, Battery power detection |
| Electrical | failure |
| System | Sensor failure, Main board communication error, |
| • | Condenser overheating alarm, Door ajar |
| Accessories | |
| Freezer Rack Model | ZKL304-552B-CT |
| Freezer Rack/Box(Quantity) | 20/500 |
| 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
- O Comform to 21 CFR 11 regulation
- O CO2 back up system

- Inkless temperature chart recorder
- O Racks & Boxes & Tubes

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