

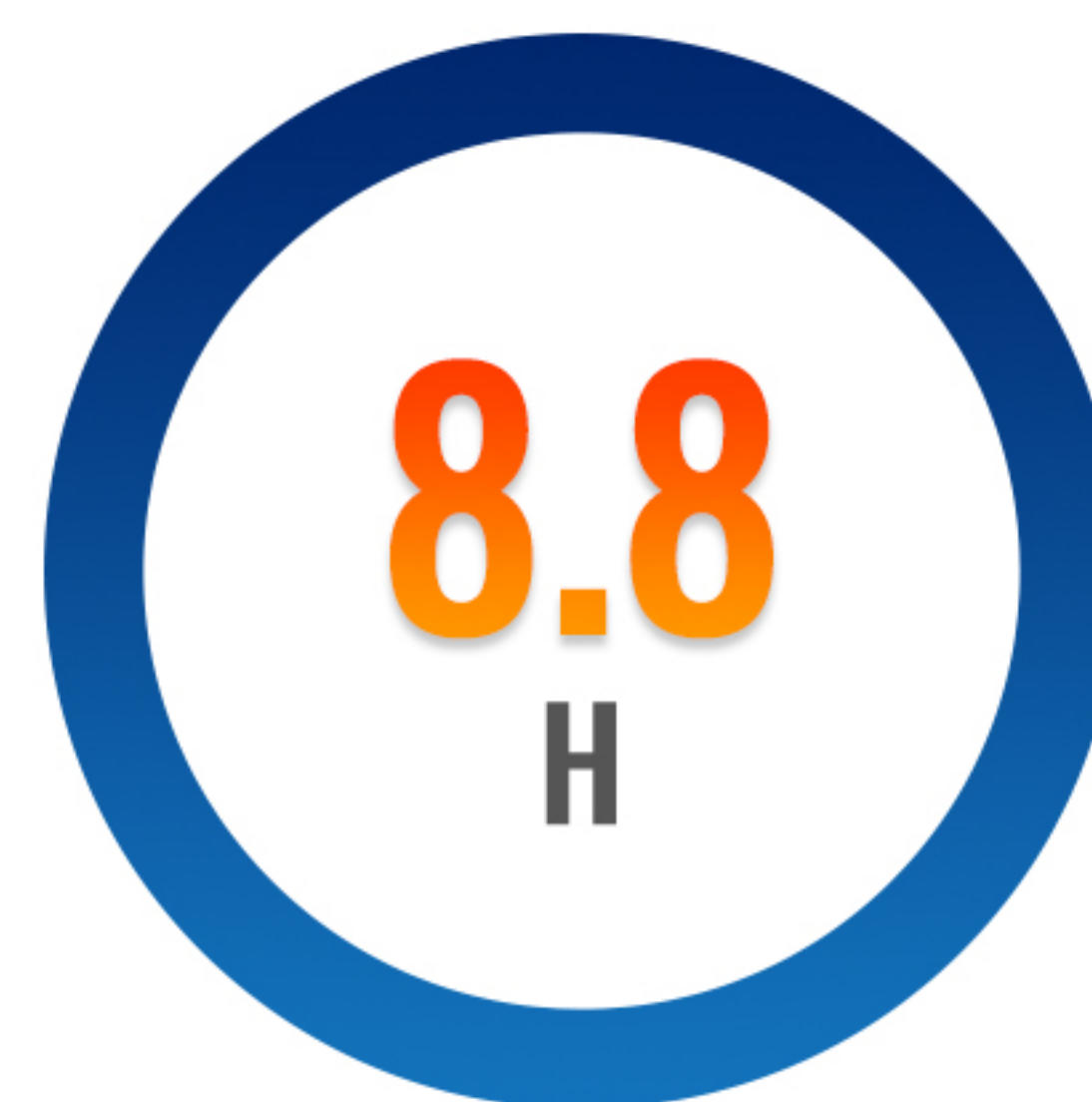
Cascade cooling system

-86°C ULT freezer

M-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.



Temp. uniformity



Pulling down to -80°C



Daily consumption

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



DW-HL1008S

Features



Cascade system
Two stages cascade system



Touch screen
10" LCD touch screen



Hydrocarbon refrigerant
Environment-friendly natural gas



Inverter technology
Two inverter compressors

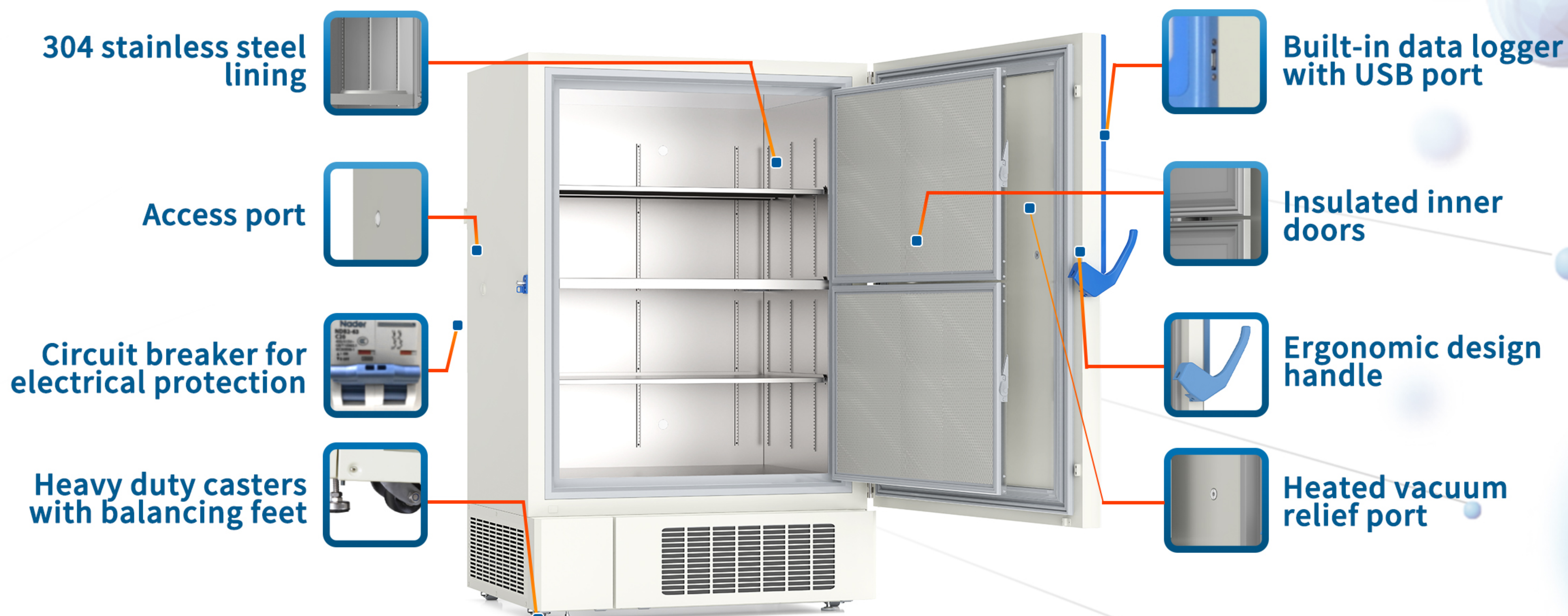


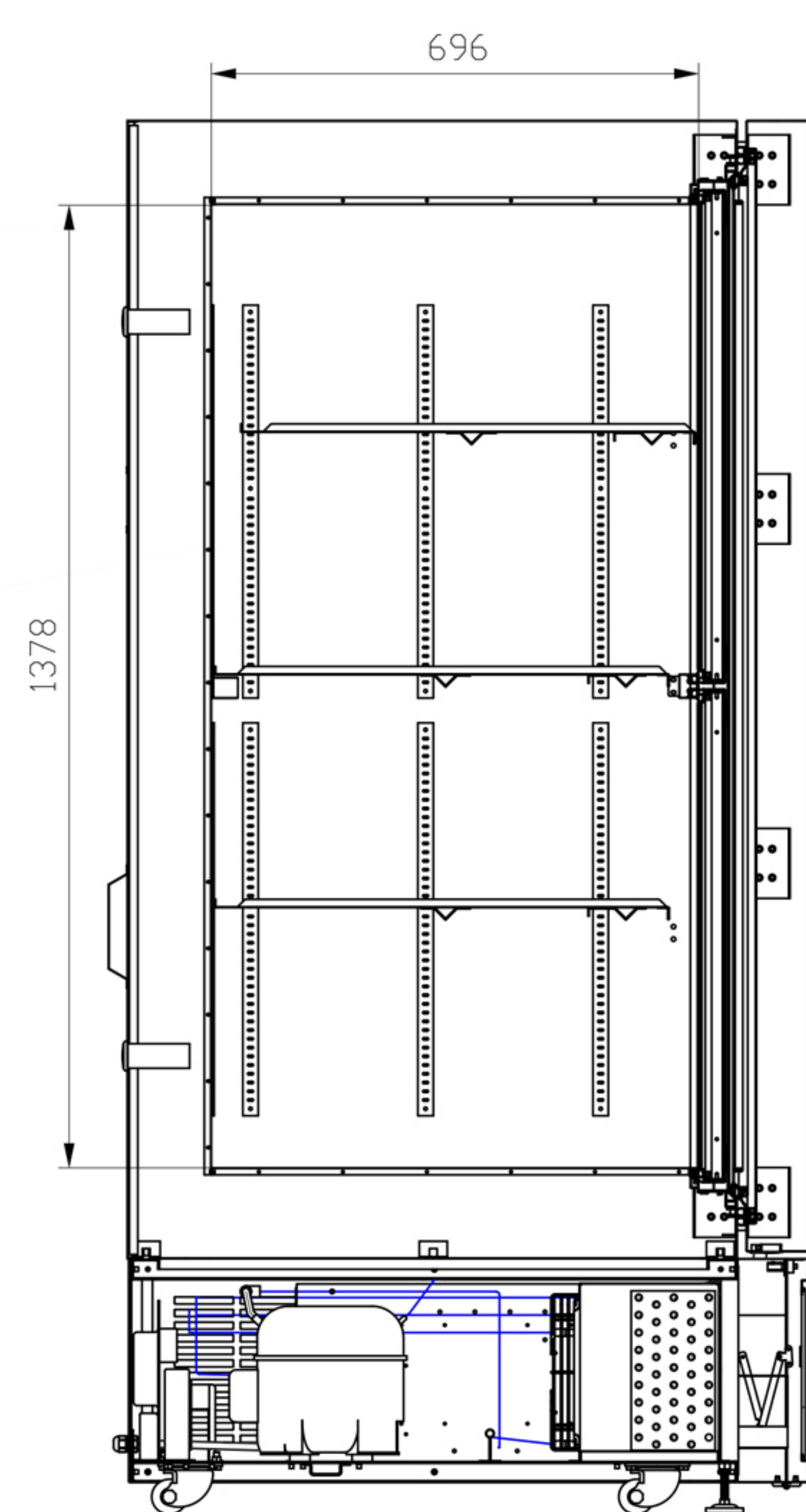
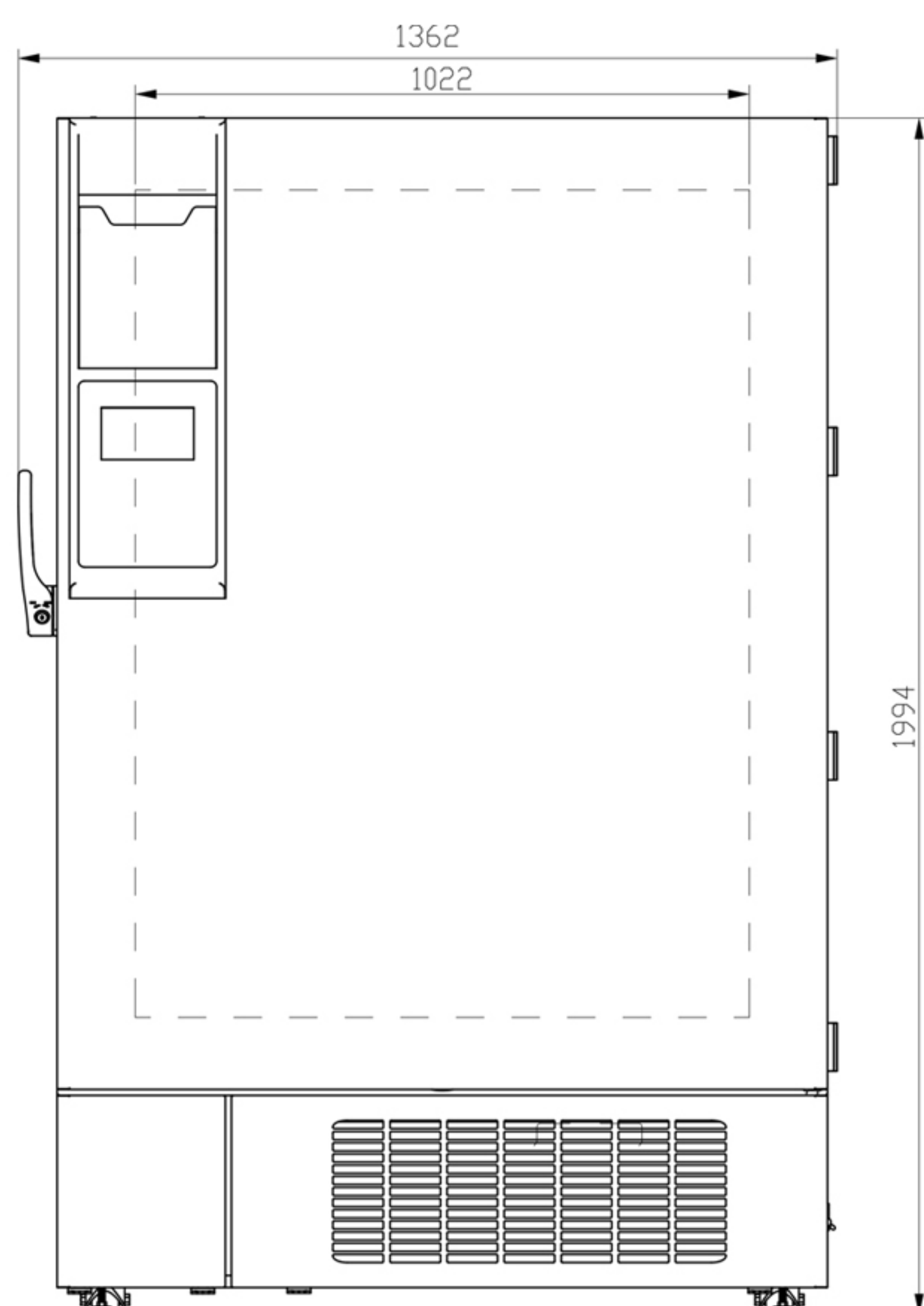
Vacuum insulation
VIP insulation foaming



Alarms system
10 kinds of alarm functions

Structure





-86°C Ultra-low Temperature Freezer	
Model	DW-HL1008S
Capacity	1008
Internal size (W*D*H) mm/inch	1022*696*1378
External size (W*D*H) mm/inch	1362*1025*1994
Package size (W*D*H) mm/inch	1473*1155*2176
NW/GW (kgs)	426/516
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	
Compressor	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 balancing 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, ZKL304-652B-CT
Freezer rack/Box (Quantity)	14+14/770

Options

M-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