

Dual cooling system

-86°C ULT freezer

M-Twindrive -86°C Ultra Low Temperature Freezer built up by two independent refrigeration systems and the Dual Cooling System offers the highest level of protection, if one system unexpectedly fails the other can maintain the freezer around the -75°C. Valuable and irreplaceable samples can always be securely stored with the highest confidence even if the compressor fails.



Recovery time after
1 minute door open



Pulling down to -80°C



Daily consumption

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



DW-HL780



M-TwinDrive
Two high-efficiency
refrigeration systems



Touch screen
10"LCD touch screen



Extreme labor-saving
Ergonomic handle



Inverter technology
Two inverter compressors



Vacuum insulation
VIP insulation foaming



Alarms system
10 kinds of alarm functions

Features

Structure

304 stainless steel interior



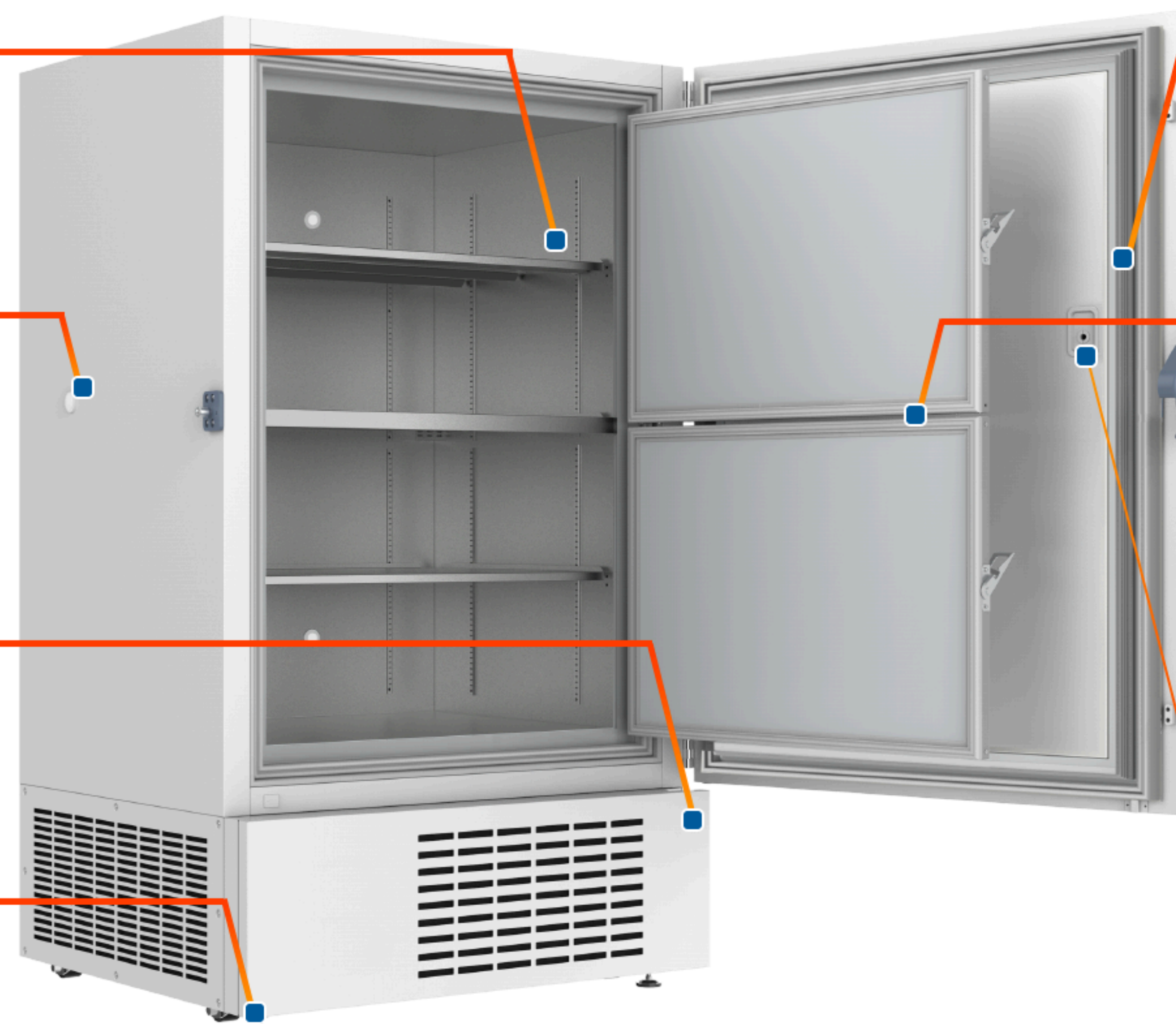
Access port



Circuit breaker for
electrical protection



Heavy duty casters with
leveling feet



Card and finger print
access



Insulated inner doors



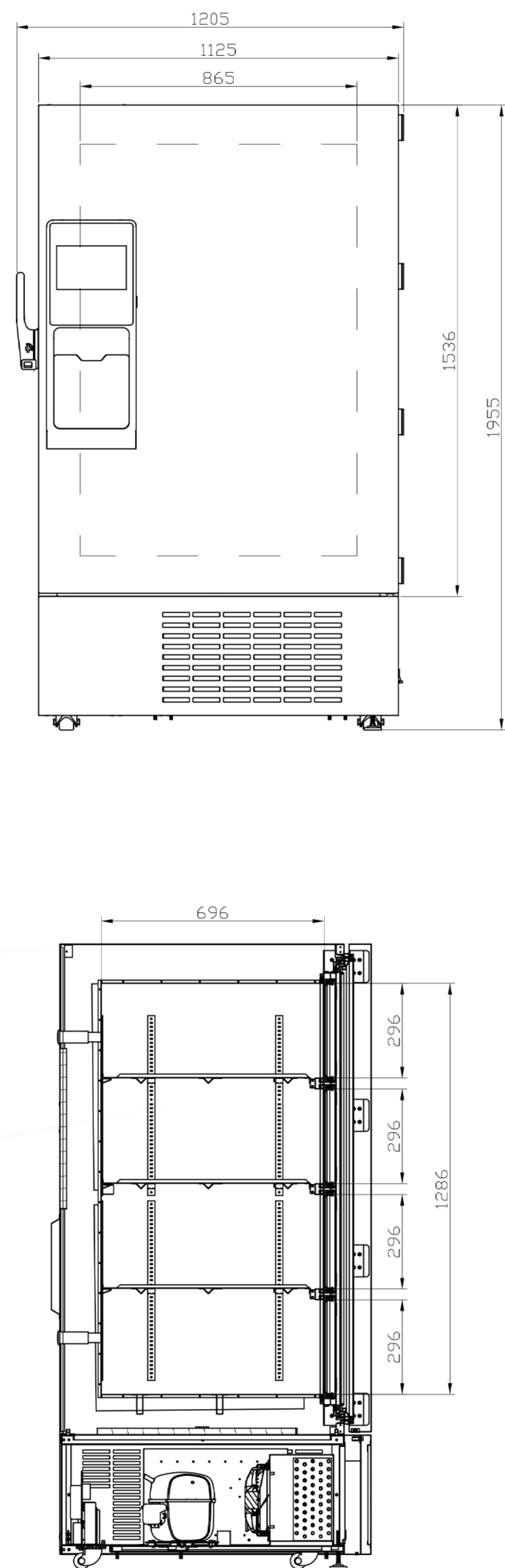
Ergonomic design handle



Heated vacuum relief port



● Dimensions



● Specification

-86°C Ultra-low Temperature Freezer	
Model	DW-HL780
Power supply(V/HZ)	110~230/50~60
Capacity	780L/27.6Cu.Ft.
Internal size (W*D*H) mm/Inch	865*696*1286/34.1*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/GW (kgs)	331/440 (wood packing)
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	HC
Insulation thickness(mm)	L/R: 130, B: 130
Construction	
External material	Cold rolled steel
Inner material	Stainless steel
Shelves	3(stainless steel)
Access test Port	3pcs. Ø 25 mm
Casters	4+(2 leveling feet)
Data logging/ Interval /Memory capacity	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, communication error, condenser overheating, door ajar
Accessories	
Freezer rack model	ZKL304-552B-CT
Freezer rack/box (quantity)	24/600

● Options

M-TwinDrive 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