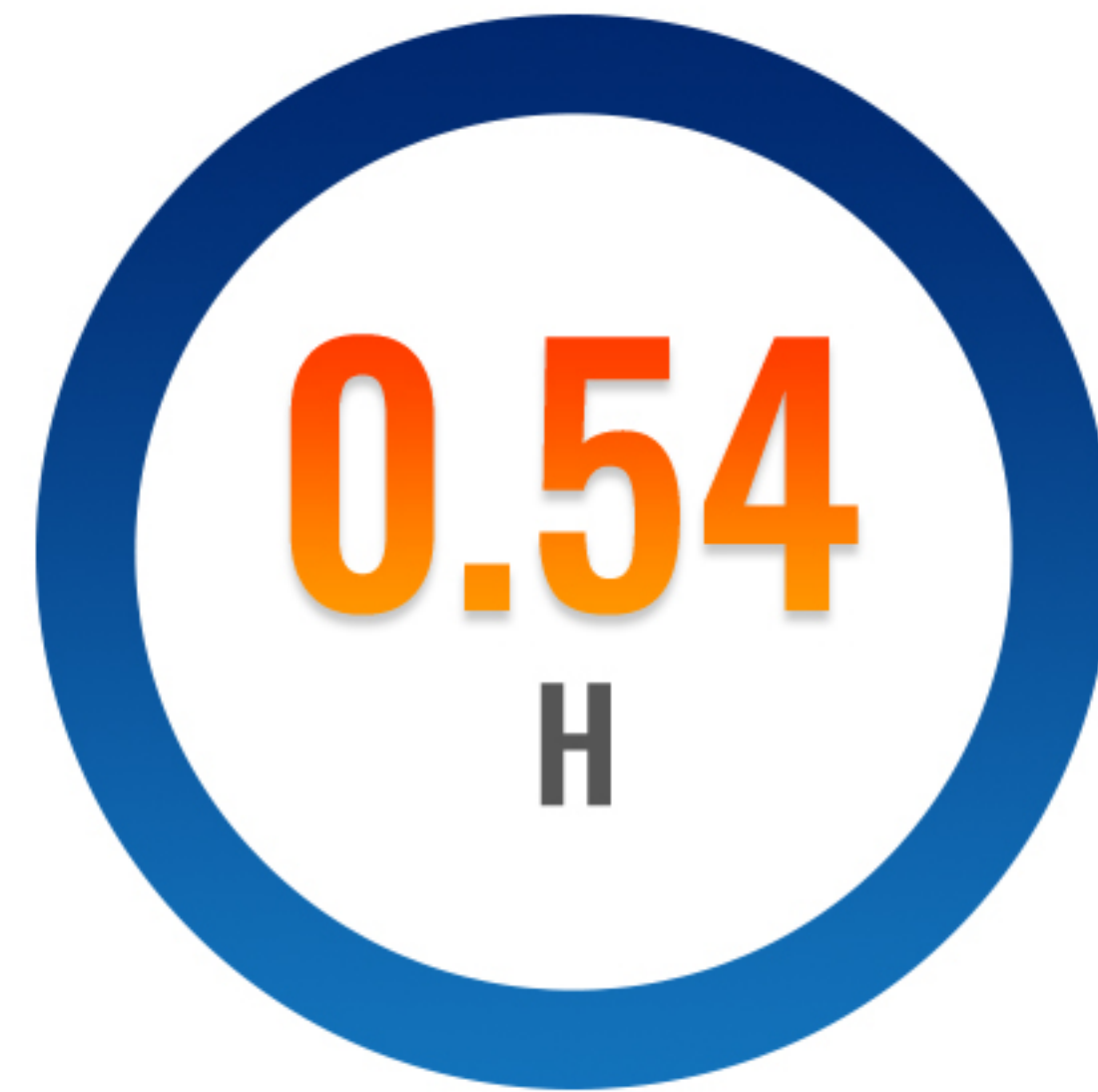


## Dual cooling system -86°C ULT freezer

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 23~25°C.

### DW-HL530/DW-HL780

### Features



**M-TwinDrive**  
Two high-efficiency  
refrigeration systems



**Touch screen**  
10"LCD touch screen



**Extreme labor-saving**  
Ergonomic handle



**Inverter technology**  
Two inverter compressors

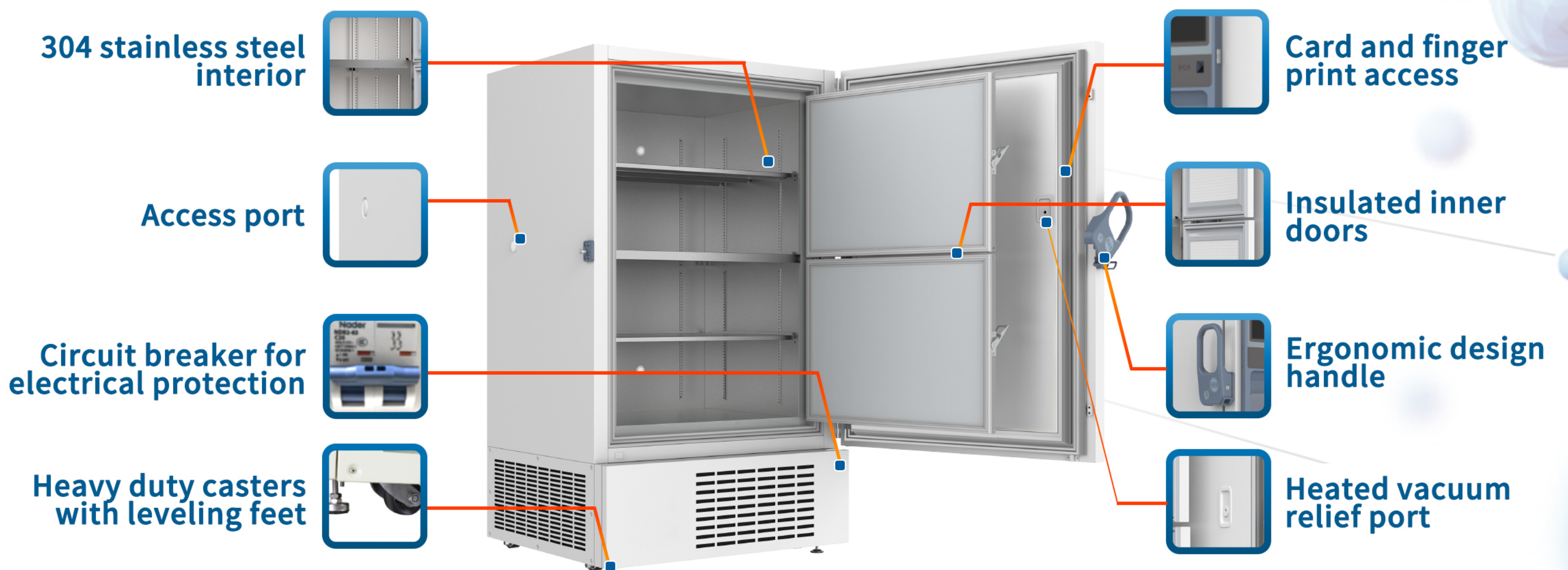


**Vacuum insulation**  
VIP insulation foaming



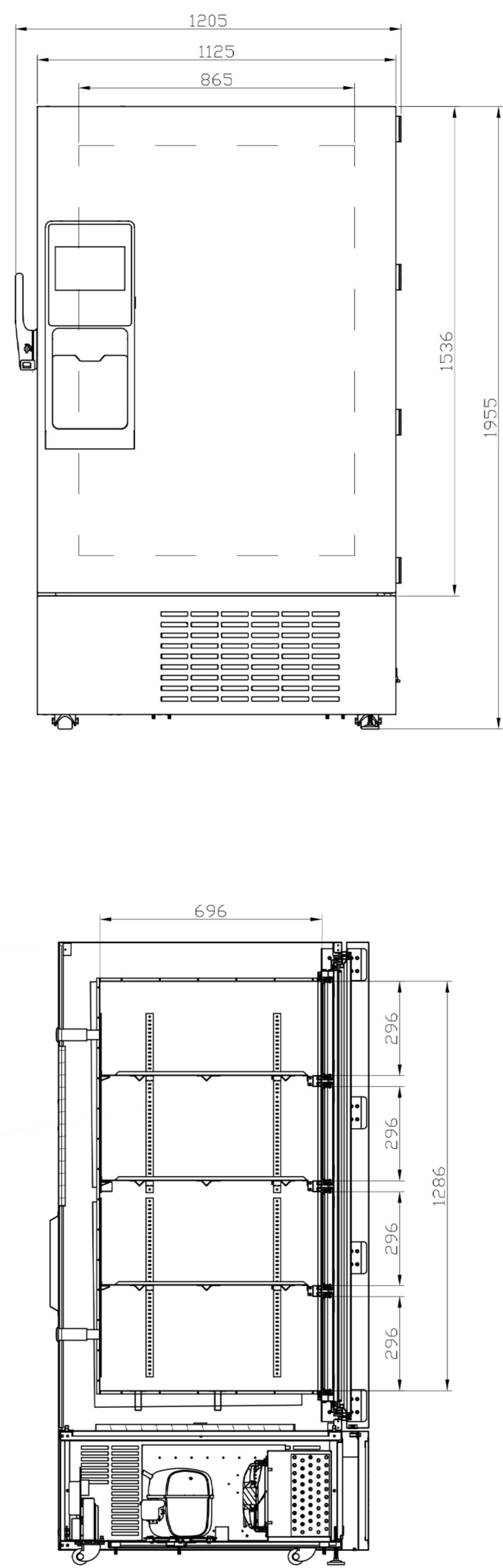
**Alarms system**  
10 kinds of alarm functions

### Structure





● Dimensions



● Specification

-86℃ Ultra-low Temperature Freezer		
Model	DW-HL780	DW-HL530
Power supply(V/HZ)	110~230/50~60	
Capacity	780L/27.6Cu.Ft.	530L/18.7Cu.Ft.
Internal size (W*D*H) mm/Inch	865*696*1286/34.1*27.4*50.6	585*696*1266/23.0*27.4*48.4
External size (W*D*H) mm/Inch	1205*1025*1955/47.4*40.4*77.0	930*1041*1947/36.6*41.0*46.7
Package size (W*D*H) mm/Inch	1320*1155*2171/52.0*45.5*85.5	1060*1167*2196/41.7*45.9*86.4
NW/GW (kgs)	331/440 (wood packing)	262
Performance		
Temperature range	-40~-86℃	
Ambient temperature	16~32℃	
Cooling performance	-86℃	
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	2pcs. 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	ZKL304-552B-CT
Freezer rack/box (quantity)	24/600	16/400

● 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