

## Dual cooling system

### -86°C ULT freezer

-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 you stop any compressor by disconnecting it the other can maintain the freezer around the -80°C. Valuable and irreplaceable samples can always be securely stored with the highest confidence even if the compressor fails.



**DW-HL1008T**



Temp. Uniformity



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.

## Features



**Dual System**  
Two high-efficiency refrigeration systems



**Touch screen**  
10" LCD touch screen



**Extreme labor-saving**  
Ergonomic handle



**Compressors**  
Two compressors



**Vacuum insulation**  
VIP insulation foaming



**Alarms system**  
12 kinds of alarm functions

## Structure

**Stainless steel shelf**



**Access port**



**Circuit breaker for electrical protection**



**Heavy duty casters with leveling feet**



**Card and finger print access**



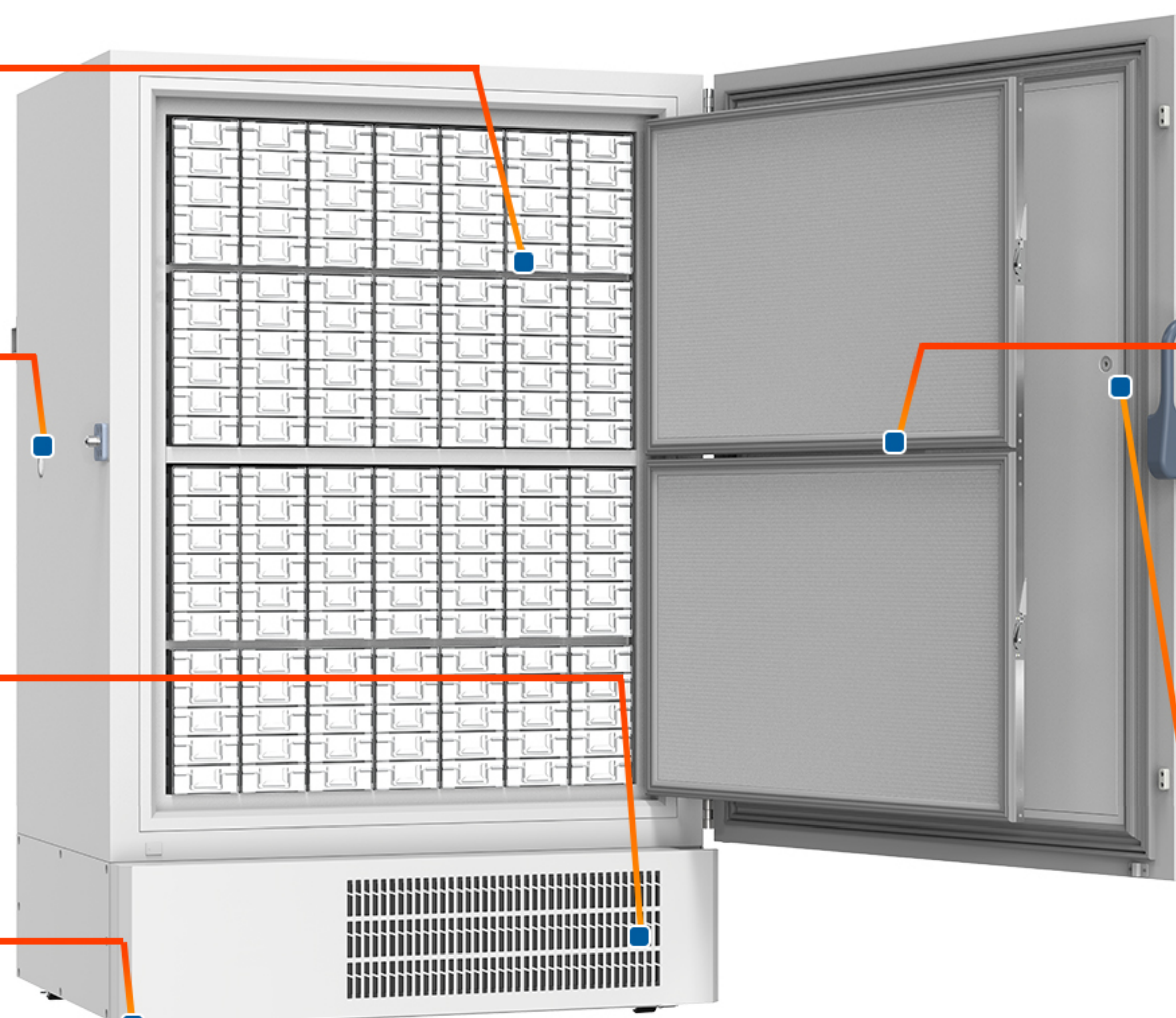
**Insulated inner doors**



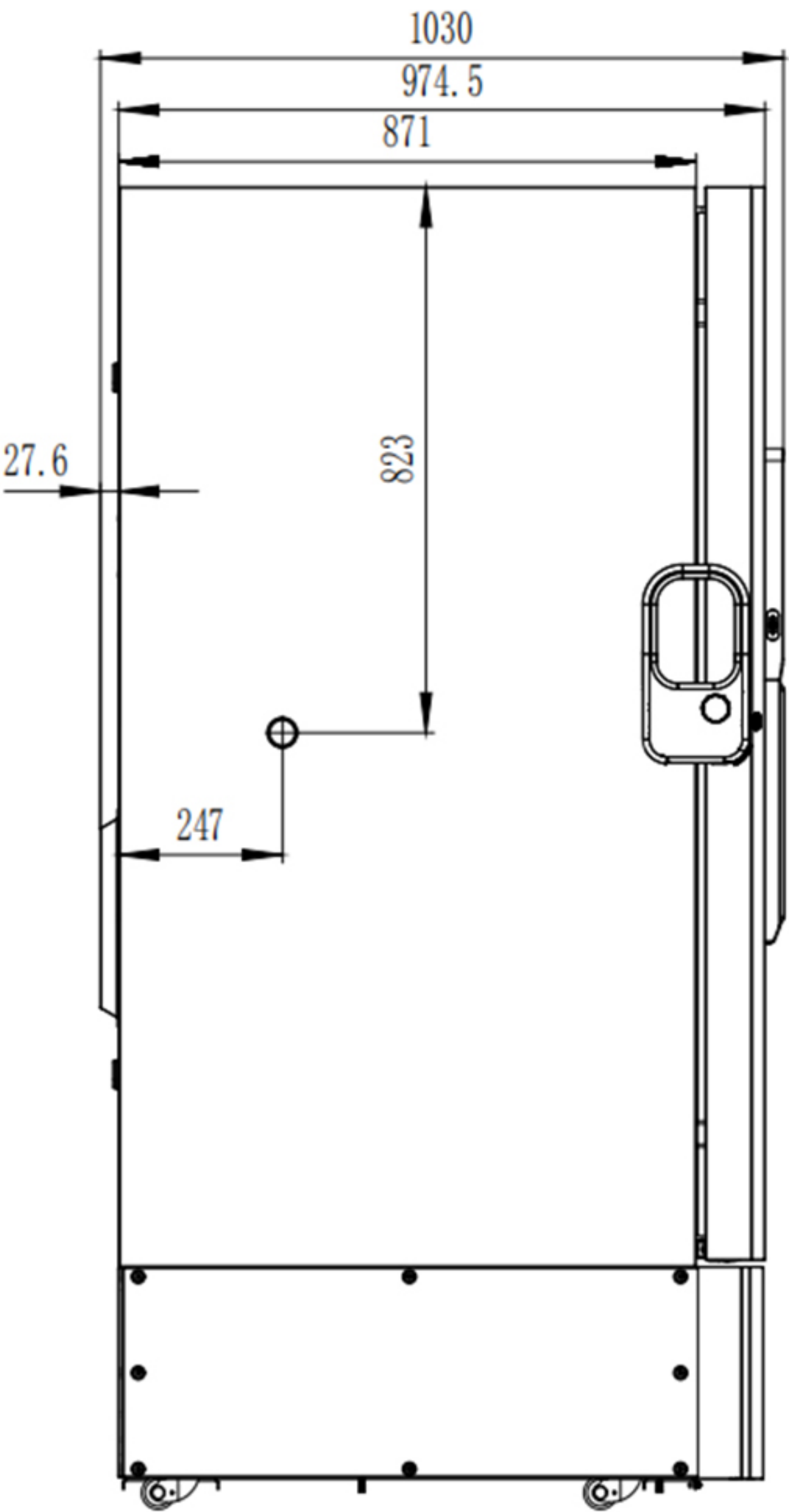
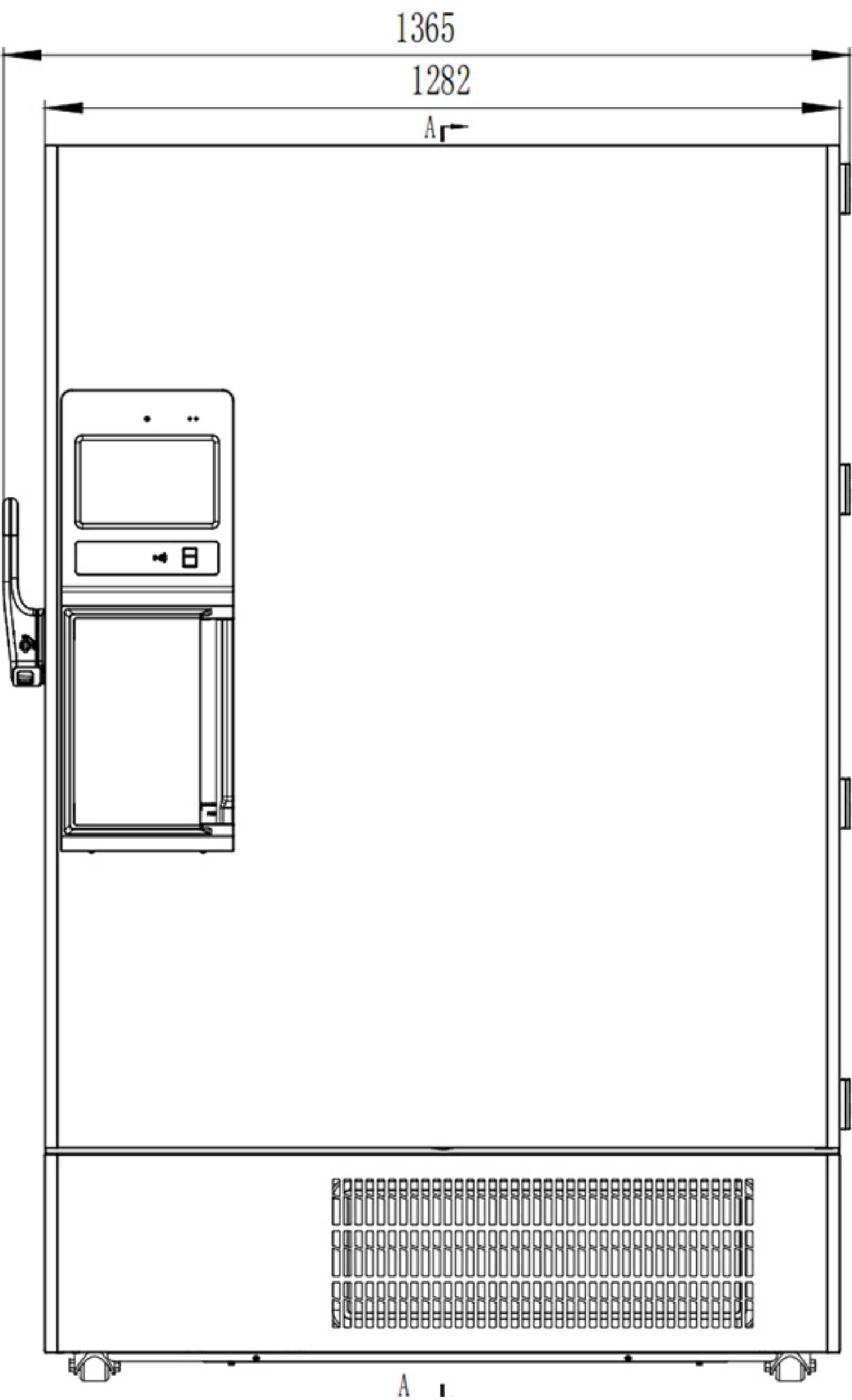
**Ergonomic design handle**



**Heated vacuum relief port**







| -86°C Ultra-low Temperature Freezer     |   |
|---|---|
| Model                                   | DW-HL1008T  |
| Capacity                                | 1008L   |
| 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            | 1290*1130*2155  |
| NW(kgs)                                 | 390   |
| 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)                | D:100,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,IoT,WIFI, 5V power interface, Network port  |
| Backup battery                          | Yes   |
| Alarms                                  |   |
| Temperature                             | High/Low temperature, High ambient temperature, Condenser high temperature alarm  |
| Electrical                              | Power failure, Low battery, Battery power detection failure   |
| System                                  | Data communication failure, Door ajar, Ambient temperature sensor failure, Condenser sensor failure, Temperature sensor failure |
| Electrical Data                         |   |
| Power supply(V/HZ)                      | 220V;50Hz   |
| Rated current (A)                       | 10.69A  |