

Recirculating Chiller

Characteristic:

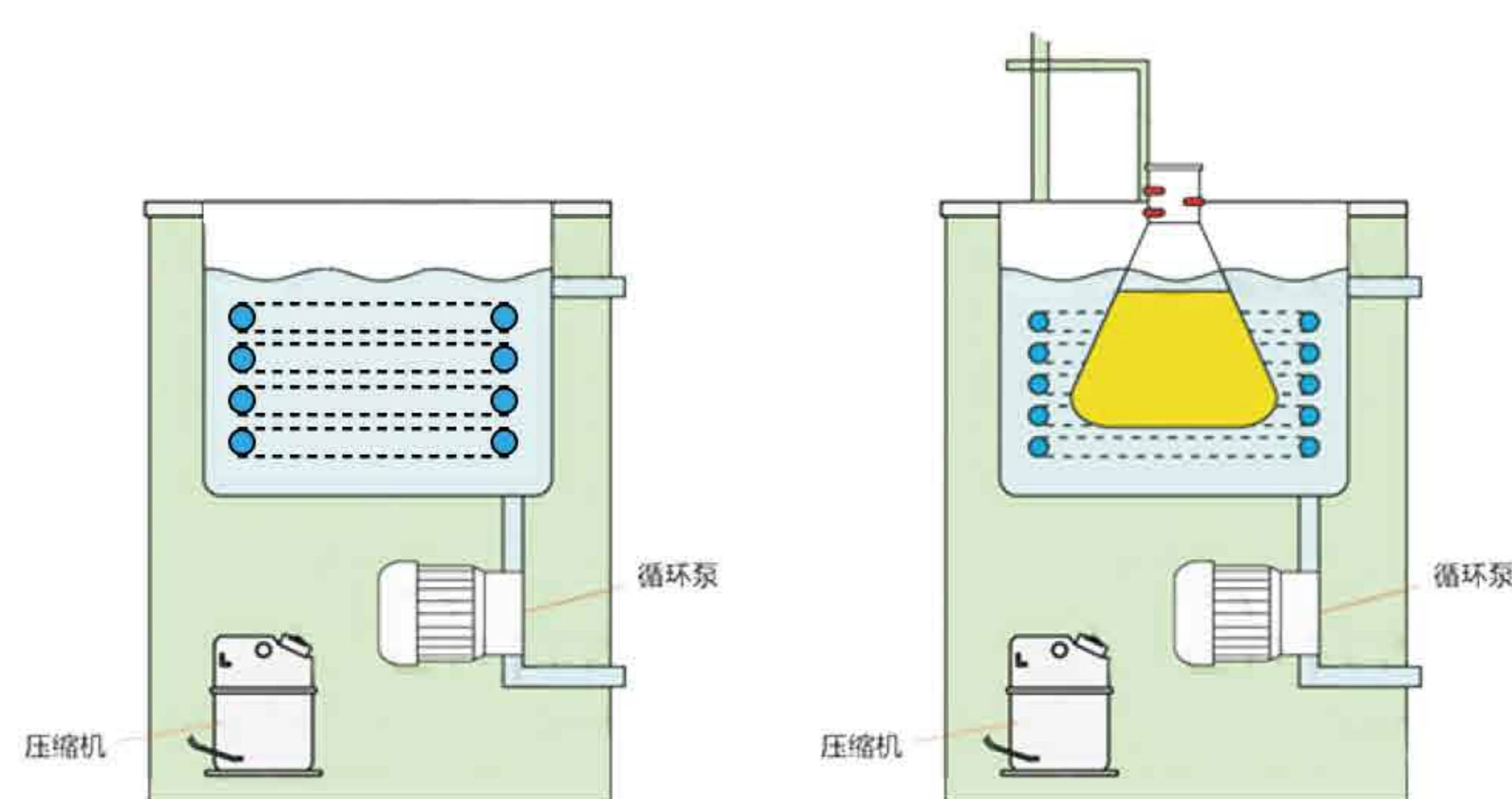
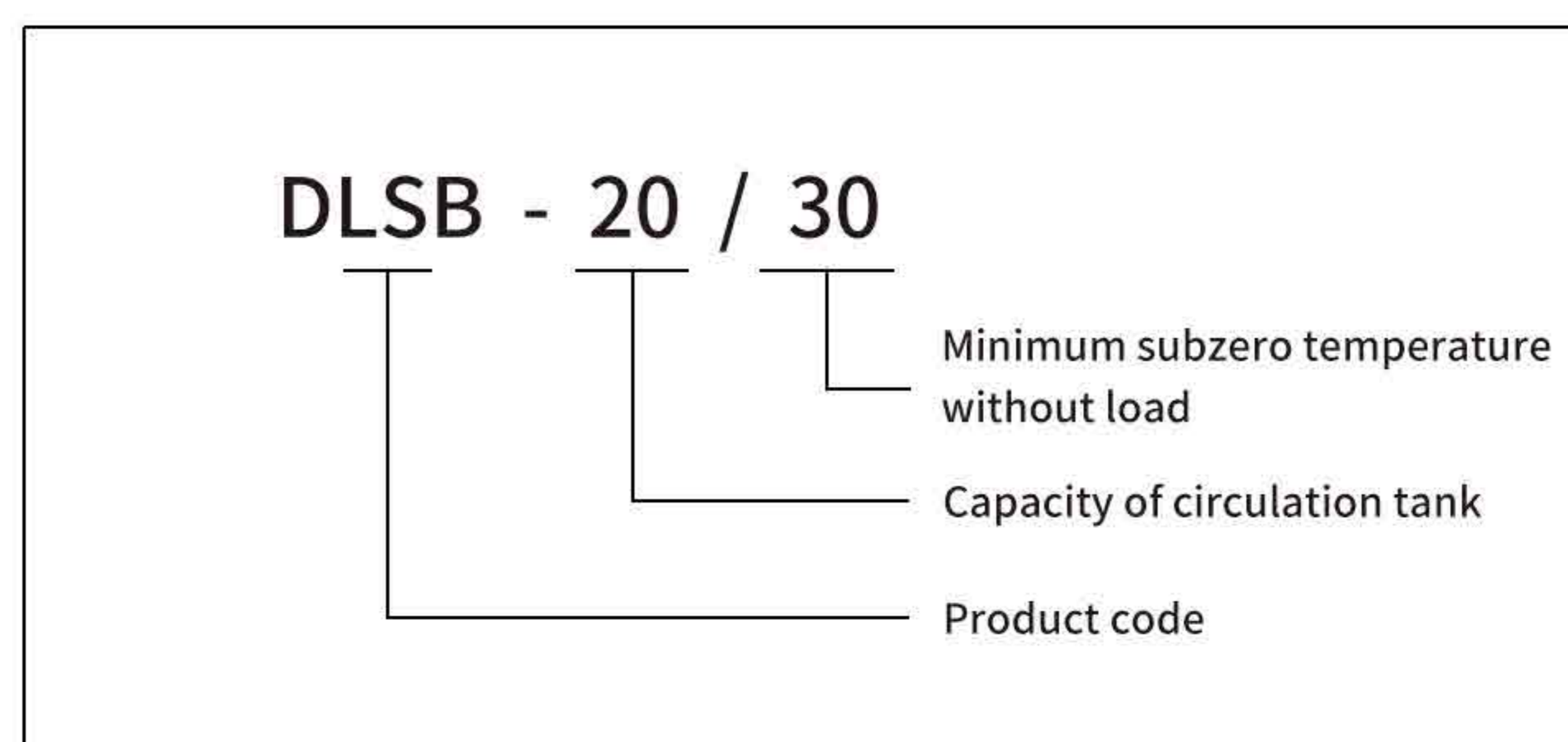
The compressor is used for refrigeration, and the circulation pump delivery function provides a cold source. It can be used to cool test tubes, reaction bottles, etc., and meet the conditions of low-temperature reaction or storage. It can also be used as a supporting device with rotary evaporators, Spray dryer, and circulating water vacuum pumps.

- The liquid storage tank and circulation pipeline are made of 304 stainless steel, which has good corrosion resistance.
- The left and right side panels are easy to disassemble, which is convenient for equipment maintenance.
- The refrigerant liquid outlet is equipped with a pressure gauge, which can display the pressure of the refrigerant at the outlet.
- The use of fluorine-free environmentally friendly refrigerants meets international environmental protection refrigeration standards.



DLSB-20/30

Model Description



Used as a cooling cycle

Use as a cooling tank

The lower the temperature, the smaller the cooling capacity. When you choose a refrigeration product, please calculate the required cooling capacity after the experiment according to the required temperature range, and then select the technical index of the low-temperature cooling circulation pump to fully meet the experimental requirements and maximize the use of equipment efficiency.



Compressor

Use brand compressors, such as Tecumseh/Danfoss/Copeland



Safety appliances

Using Schneider controller, with leakage protection, overcurrent
Various safety protection measures



Danfoss expansion valve

Immediately control the flow of refrigerant to ensure the cooling capacity



Quality assurance

Provide 18-month warranty after received equipment



Circulation pump

Stainless steel vortex pump, low heat, simple structure, head and flow can be customized



Easy to clean

Side panels with ventilation meshes are easy to remove for easy clean condenser

Temp.control accuracy

Adopt PID control mode to optimize temperature control process parameters, and the temperature control accuracy can reach $\pm 0.5^{\circ}\text{C}$

Technical Parameters



-30°C~RT

(DLSB~Open type)

| | | | | | | | |
|----------------------------|-------|--|-------------|--------------|-------------------------------|--------------|--------------|
| Product number | | DLSB-5/30 | DLSB-10/30 | DLSB-20/30 | DLSB-30/30 | DLSB-50/30 | DLSB-100/30 |
| Temp.range | | -30°C-RT; ±0.5°C | | | | | |
| Voltage | | 220V ~50/60Hz(optional 110V) | | | 3Phase 380V/220V/480V~50/60Hz | | |
| Power(kW) | | 0.55 | 1 | 1.3 | 2.1 | 4 | 6 |
| Cooling capacity (w) | 25°C | 875 | 2010 | 2800 | 4600 | 10500 | 15750 |
| | 0°C | 650 | 1650 | 2300 | 3500 | 9300 | 13250 |
| | -30°C | 255 | 400 | 600 | 600 | 1300 | 1100 |
| Temp.Sensor | | PT100 | | | | | |
| Safety protection | | Overvoltage, time delay, overcurrent, overheating, leakage | | | | | |
| Refrigerant | | R404A | | | | | |
| Evaporator type | | Internally threaded copper pipe | | | | | |
| Circulation pipe size (DN) | | G1/2"-OD11mm | | G1/2"-OD14mm | G1/2"-OD16mm | | G3/4"-OD19mm |
| Fan type | | Outer Rotor Axial Fan | | | | | |
| Cooling type | | Air cooled | | | | | |
| Compressor power (kW) | | 0.4 | 0.75 | 1.125 | 1.875 | 3.75 | 5.25 |
| Current (A) | | 2 | 3.4 | 5.1 | 8.5 | 7.5 | 10.5 |
| Volume (L) | | 5 | 10 | 20 | 30 | 50 | 100 |
| Lift (m) | | 6 | 6 | 6 | 6 | 6 | 12 |
| Flow (L/min) | | 25 | 25 | 25 | 25 | 25 | 35 |
| Dimensions (mm) | | 480*350*680 | 540*420*800 | 570*490*840 | 630*530*1000 | 730*630*1190 | 975*760*1330 |
| Weight (Kg) | | 42 | 57 | 71 | 88 | 140 | 180 |
| Install list | | One valve, one roll of raw material tape/3.6M silicone tube with insulation/one instruction manual | | | | | |
| Remark | | All data are measured data in the factory, users will have errors in the process of use | | | | | |



| | | | | | | | |
|----------------------------|-------|--|-------------|---|--------------|--------------|--------------|
| Product number | | DLSB-5/40 | DLSB-10/40 | DLSB-20/40 | DLSB-30/40 | DLSB-50/40 | DLSB-100/40 |
| Temp.range | | -40°C-RT; ±0.5°C | | | | | |
| Voltage | | 220V ~50/60Hz(optional 110V) | | 380V (optional 3Phase 220V/480V) ~50/60Hz | | | |
| Power(kW) | | 0.9 | 1.3 | 2.4 | 3.2 | 5.3 | 6 |
| Cooling capacity (w) | 25°C | 1900 | 2800 | 5625 | 7500 | 12775 | 17000 |
| | 0°C | 1000 | 2500 | 4600 | 6180 | 11575 | 15500 |
| | -40°C | 170 | 550 | 900 | 900 | 1200 | 2300 |
| Temp.Sensor | | PT100 | | | | | |
| Safety protection | | Overvoltage, time delay, overcurrent, overheating, leakage | | | | | |
| Refrigerant | | R404A | | | | | |
| Evaporator type | | Internally threaded copper pipe | | | | | |
| Circulation pipe size (DN) | | G1/2"-OD11mm | | G1/2"-OD14mm | G1/2"-OD16mm | | G1/2"-OD19mm |
| Fan type | | Outer Rotor Axial Fan | | | | | |
| Cooling type | | Air cooled | | | | | |
| Compressor power (kW) | | 0.75 | 0.975 | 2.25 | 3 | 5.25 | 5.25 |
| Current (A) | | 3.4 | 8 | 5 | 6 | 10 | 10 |
| Volume (L) | | 5 | 10 | 20 | 30 | 50 | 100 |
| Lift (m) | | 6 | 6 | 6 | 6 | 6 | 10 |
| Flow (L/min) | | 25 | 25 | 25 | 25 | 25 | 35 |
| Dimensions (mm) | | 480*350*680 | 580*490*860 | 630*530*1000 | 630*530*1000 | 730*630*1190 | 960*770*1330 |
| Weight (Kg) | | 45 | 71 | 96 | 105 | 142 | 180 |
| Install list | | One valve, one roll of raw material tape/3.6M silicone tube with insulation/one instruction manual | | | | | |
| Remark | | All data are measured data in the factory, users will have errors in the process of use | | | | | |