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RefComp

# Screw Compressor Unit

## CW Series Semi-hermetic Screw Brine Units


Global Service Hotline
**400-109-6660**

# Contents

## Structure Diagram of CW Series Semi-closed Screw Brine Unit

Automatic control design, superior energy efficiency performance, stable and reliable, highly integrated.

High-precision control sensor

Smart control screen

Shut-off valve

semi-hermetic compressor

Oil separator
(oil efficiency up to 3ppm)

Condenser

Pressure controller

Refrigeration unit control cabinet

Breaker

Programmable Controllers

Expansion valve

Evaporator

## Unit Features

- Optimized structure design, modular design, high integration, simple but compact structure, nice appearance, small footprint and easy installation.
- Single- head and multi- head can meet different requirements for use.
- Semi- hermetic compressors setion gasi s used to cool motors. the motors can work normally to ensure safety and reliability.
- All the parts in the system are produced by well- known manufacturers and of high reliability and quality assurance.
- Suitable for R22, R507A, R404A, R134a etc..
- Adjustment can be realized with stepped or stepless control, and capacity control is flexible to adapt to the significant changes in working conditions.
- With exceptional partial load performance, the running cost is greatly reduced.
- The units can run with high efficiency through optimized heat transfer design, and are using high efficiency heat exchange tubes to achieve excellent heat transfer effect in heat exchangers.
- Suitable for many fields. The standard can realize refrigeration capacity under high, medium and low temperature. Customized design can also be made based on the clientsrequirements.
- Electronic expansion valves are used with exact load adjustments.
- Tailored design to reduce the cost of operation for clients.
- RefComp semi- hermetic screw compressors have high efficiency, low noise, compact structure and are easy fo install easy installation.
- The compressors are featured with adjustable internalVI, which can reduce the power consumption under partial load.
- External oil separators and coolers can be configured based on the practical conditions to realize extensive use of compressors.
- Evaporative, water cooled or air cooled condensers can be selected based on the clients' requirements to meet the demand in different regions.
- The intelligent control center is equipped with the famous brand PLCs and 64 k true color touch screen, fo easy operatie and reliable running. The control center can make real-time recording of running parameters and faulty conditions, is equipped with a preventive safety system and the function of remote communication.





## Preventive Protection

- An discharge check valve is configured to prevent the backflow during shut- down so as to protect the compressor.
- Motor winding protection can prevent motors from overheating andthe the the the the the the the the the the the the the the the the protect the compressors.
- High- low pressure protection can protect the compressor and system in severe working conditions.
- Flow switch can prevent the units fo with the water supply is interrupted, to ensure the safety of the system.
- Water temperature protection can prevent heat exchangers from being damaged by freezing.
- Oil level protection can prevent compressors from being damaged by the lack of oil.
- Safety valves are configured to prevent the pressure in the system from rising too high.

## Service Condition

Ambient temperature：+5℃~+40℃.
Refrigerant oil: only provided or authorized by snowkey.
Cooling water condition：Cooling water quality should meet the requirement of Code For Design Of Industrial Recirculating Cooling Water Treatment .
Entering temperature of cooling water ：+15℃~+32℃.

## Unit Model No. Explanation

CW 1 M 0055 W D G H A N A A

- A: Non-label: A-standard unit; B~Z-non-standard unit
- A: Oil cooling：A- Water cooled shell; B- Water cooled plate; C- Thermosyphon shell; D- Thermosyphon plate; E- shell; N- nothing
- N: Type of economizer：A- tube & shell- type; E- shell; W- plate exchange- type; N- nothing
- A: Installation type：A- Indoor type; B- Outdoor type
- M: Refrigerant type：A- R717; M- R134a; N- R407C; P- R507A; S- R404A; Z- other
- G: Refrigerant type：B- Brine; G- Alcohols; W- Water; Z- Other
- D: Types of evaporator：D- Dry type; F- Flooded; T- Thermosyphon type
- W: Type of condenser：A- Air cooled; E- Evaporation type; W- Water cooled
- 0055: Unit code: nominal working condition refrigerating capacity by 0 or 5 mantissa rounding (kW)
- H: Application scope：H - High temperature (3≧outlet brine water temperature>- 10); M - Medium temperature (- 10≧outlet brine water temperature>- 25); L- Low temperature(- 25≧outlet brine water temperature≧- 35)
- 1: Compressor quantity：1,2,3,4……
- CW: Type of units: CW- Brine unit

# High-temperature Water Cooled Dry-type Brine Units（R134a）

| Model | | | CW1H__WDGMANNA | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 0135 | 0155 | 0175 | 0185 | 0220 | 0245 | 0285 | 0330 | 0375 | 0400 | 0425 | 0470 | 0530 | 0590 |
| Refrigeration Capacity | kW | | 137.4 | 155.7 | 175.2 | 188.7 | 221.0 | 248.6 | 286.7 | 333.6 | 377.6 | 403.6 | 426.1 | 471.8 | 532.8 | 594.9 |
| | kCal/h | | 118164 | 133902 | 150672 | 162282 | 190060 | 213796 | 246562 | 286896 | 324736 | 347096 | 366446 | 405748 | 458208 | 511614 |
| Compressor | Quantity | Platform | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | Input Power | kW | 37.9 | 42.3 | 47.4 | 51.1 | 57.2 | 63.2 | 72.1 | 85.4 | 95.6 | 101.1 | 107.8 | 118.8 | 132.7 | 150.7 |
| | Capacity Control | | Fully loaded -75-50%，min | | | | | | | | | | | | | |
| | Start Method | | Y/△ | | | | | | | | | | | | | |
| | Refrigerant | | R134a | | | | | | | | | | | | | |
| Evaporator | Type | | Shell and tube dry evaporator | | | | | | | | | | | | | |
| | Inlet And Outlet Water Temperature | ℃ | 8/3 | | | | | | | | | | | | | |
| | Water Flow | $m^3/h$ | 24.6 | 27.9 | 31.4 | 33.8 | 39.6 | 44.6 | 51.4 | 59.8 | 67.7 | 72.3 | 76.4 | 84.6 | 95.5 | 106.7 |
| | Water Inlet And Outlet Pipes | mm | 89 | 89 | 89 | 89 | 89 | 108 | 108 | 108 | 133 | 133 | 133 | 133 | 133 | 159 |
| | Water Pressure Drop | kPa | ≤ 70 | | | | | | | | | | | | | |
| Condenser | Type | | Shell and Tube Condenser | | | | | | | | | | | | | |
| | Inlet And Outlet Water Temperature | ℃ | 30/35 | | | | | | | | | | | | | |
| | Water Flow | $m^3/h$ | 30.3 | 34.2 | 38.5 | 41.5 | 48.1 | 54.0 | 62.1 | 72.5 | 81.9 | 87.3 | 92.4 | 102.2 | 115.2 | 129.0 |
| | Water Inlet And Outlet Pipes | mm | 89 | 89 | 89 | 108 | 108 | 108 | 108 | 133 | 133 | 133 | 133 | 159 | 159 | 159 |
| | Water Pressure Drop | kPa | ≤ 70 | | | | | | | | | | | | | |
| Dimensions | L | mm | 2600 | 2600 | 2600 | 2600 | 2600 | 3200 | 3200 | 3200 | 3200 | 3200 | 3200 | 3700 | 3700 | 3700 |
| | W | mm | 1000 | 1000 | 1200 | 1200 | 1200 | 1200 | 1200 | 1200 | 1200 | 1500 | 1500 | 1500 | 1500 | 1600 |
| | H | mm | 2000 | 2000 | 2100 | 2100 | 2200 | 2200 | 2200 | 2300 | 2300 | 2300 | 2400 | 2600 | 2600 | 2700 |
| Unit Weight | Net Weight | kg | 2000 | 2200 | 2500 | 2500 | 3000 | 3000 | 3200 | 3500 | 3500 | 4000 | 4000 | 4500 | 4500 | 5000 |
| | Operational Weight | kg | 2500 | 2700 | 3000 | 3000 | 3700 | 3700 | 4000 | 4300 | 4300 | 4800 | 4800 | 5500 | 5500 | 6000 |

Note:1. Power system: 3P/380V/50Hz, voltage fluctuation range: ±10%.

2. The inlet and outlet of units are connected by flanges. Details should be given in the order if other connections are required.

3. Due to technology improvement, the parameters, overall dimension and weight of the units may differs, and the actual design shall prevail.

4. The units mentioned above are the standard ones,customer specific designs can be wade(basod on requirement).



## High-temperature Water Cooled Dry-type Brine Units（R134a）·Continued

| Model | | | CW1H__WDBMANNA | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 0135 | 0155 | 0175 | 0185 | 0220 | 0245 | 0285 | 0330 | 0375 | 0400 | 0425 | 0470 | 0530 | 0590 |
| Refrigeration capacity | kW | | 137.4 | 155.7 | 175.2 | 188.7 | 221.0 | 248.6 | 286.7 | 333.6 | 377.6 | 403.6 | 426.1 | 471.8 | 532.8 | 594.9 |
| | kCal/h | | 118164 | 133902 | 150672 | 162282 | 190060 | 213796 | 246562 | 286896 | 324736 | 347096 | 366446 | 405748 | 458208 | 511614 |
| Compressor | Qty | Platform | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | Input power | kW | 37.9 | 42.3 | 47.4 | 51.1 | 57.2 | 63.2 | 72.1 | 85.4 | 95.6 | 101.1 | 107.8 | 118.8 | 132.7 | 150.7 |
| | Capacity control | | Fully loaded -75-50%，min | | | | | | | | | | | | | |
| | Start method | | Y/△ | | | | | | | | | | | | | |
| | Refrigerant | | R134a | | | | | | | | | | | | | |
| Evaporator | Type | | Shell and tube dry evaporator | | | | | | | | | | | | | |
| | Inlet and outlet water temperature | ℃ | 8/3 | | | | | | | | | | | | | |
| | Water flow | $m^3/h$ | 25.7 | 29.2 | 32.8 | 35.4 | 41.4 | 46.4 | 53.8 | 62.5 | 70.8 | 75.7 | 80.0 | 88.5 | 100.0 | 111.6 |
| | Water inlet and outlet pipes | mm | 89 | 89 | 89 | 89 | 108 | 108 | 108 | 108 | 133 | 133 | 133 | 133 | 159 | 159 |
| | Water pressure drop | kPa | ≤ 70 | | | | | | | | | | | | | |
| Condenser | Type | | Shell and Tube Condenser | | | | | | | | | | | | | |
| | Inlet and outlet water temperature | ℃ | 30/35 | | | | | | | | | | | | | |
| | Water flow | $m^3/h$ | 30.3 | 34.2 | 38.5 | 41.5 | 48.1 | 54.0 | 62.1 | 72.5 | 81.9 | 87.3 | 92.4 | 102.2 | 115.2 | 129.0 |
| | Water inlet and outlet pipes | mm | 89 | 89 | 89 | 108 | 108 | 108 | 108 | 133 | 133 | 133 | 133 | 159 | 159 | 159 |
| | Water pressure drop | kPa | ≤ 70 | | | | | | | | | | | | | |
| Dimensions | L | mm | 2600 | 2600 | 2600 | 2600 | 2600 | 3200 | 3200 | 3200 | 3200 | 3200 | 3200 | 3700 | 3700 | 3700 |
| | W | mm | 1000 | 1000 | 1200 | 1200 | 1200 | 1200 | 1200 | 1200 | 1200 | 1500 | 1500 | 1500 | 1500 | 1600 |
| | H | mm | 2000 | 2000 | 2100 | 2100 | 2200 | 2200 | 2200 | 2300 | 2300 | 2300 | 2400 | 2600 | 2600 | 2700 |
| Unit Weight | Net weight | kg | 2000 | 2200 | 2500 | 2500 | 3000 | 3000 | 3200 | 3500 | 3500 | 4000 | 4000 | 4500 | 4500 | 5000 |
| | Running weight | kg | 2500 | 2700 | 3000 | 3000 | 3700 | 3700 | 4000 | 4300 | 4300 | 4800 | 4800 | 5500 | 5500 | 6000 |

Note:1. Power system: 3P/380V/50Hz, voltage fluctuation range: ±10%.

2. The inlet and outlet of units are connected by flanges. Details should be given in the order if other connections are required.

3. Due to technology improvement, the parameters, overall dimension and weight of the units may differs, and the actual design shall prevail.

4. The units mentioned above are the standard ones,customer specific designs can be wade(basod on requirement).

## High-temperature Water Cooled Dry-type Brine Units（R507A）

| Model | | | CW1H__WDGPANNA | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 0095 | 0120 | 0140 | 0165 | 0190 | 0230 | 0255 | 0275 | 0315 | 0350 | 0400 | 0440 | 0475 | 0550 |
| Refrigeration Capacity | kW | | 95.7 | 121.7 | 142.0 | 166.3 | 192.3 | 232.0 | 258.0 | 276.7 | 317.8 | 352.1 | 403.2 | 444.4 | 475.1 | 553.9 |
| | kCal/h | | 82302 | 104662 | 122120 | 143018 | 165378 | 199520 | 221880 | 237962 | 273308 | 302806 | 346752 | 382184 | 408586 | 476354 |
| Compressor | Quantity | Platform | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | Input Power | kW | 26.9 | 34.2 | 39.9 | 46.8 | 54.1 | 65.2 | 72.5 | 77.8 | 101.3 | 112.0 | 128.6 | 141.6 | 151.2 | 176.2 |
| | Capacity Control | | Fully loaded -75-50%，min | | | | | | | | | | | | | |
| | Start Method | | Y/△ | | | | | | | | | | | | | |
| | Refrigerant | | R507A | | | | | | | | | | | | | |
| Evaporator | Type | | Shell and tube dry evaporator | | | | | | | | | | | | | |
| | Inlet And Outlet Water Temperature | ℃ | 8/3 | | | | | | | | | | | | | |
| | Water Flow | $m^3/h$ | 18.1 | 23.1 | 27.0 | 31.6 | 36.5 | 44.1 | 49.0 | 56.6 | 60.4 | 66.9 | 76.6 | 84.5 | 90.3 | 105.3 |
| | Water Inlet And Outlet Pipes | mm | 76 | 76 | 89 | 89 | 89 | 108 | 108 | 108 | 108 | 133 | 133 | 133 | 133 | 159 |
| | Water Pressure Drop | kPa | ≤ 70 | | | | | | | | | | | | | |
| Condenser | Type | | Shell and Tube Condenser | | | | | | | | | | | | | |
| | Inlet And Outlet Water Temperature | ℃ | 30/35 | | | | | | | | | | | | | |
| | Water Flow | $m^3/h$ | 21.2 | 27.0 | 31.5 | 36.9 | 42.7 | 51.5 | 57.2 | 61.4 | 72.6 | 80.3 | 92.0 | 101.5 | 108.4 | 126.4 |
| | Water Inlet And Outlet Pipes | mm | 76 | 89 | 89 | 89 | 108 | 108 | 108 | 108 | 133 | 133 | 133 | 159 | 159 | 159 |
| | Water Pressure Drop | kPa | ≤ 70 | | | | | | | | | | | | | |
| Overall Dimension | L | mm | 2500 | 2500 | 2500 | 2500 | 3200 | 3200 | 3200 | 3200 | 3200 | 3200 | 3700 | 3700 | 3700 | 3700 |
| | W | mm | 1200 | 1200 | 1200 | 1300 | 1300 | 1400 | 1400 | 1500 | 1500 | 1500 | 1600 | 1700 | 1700 | 1700 |
| | H | mm | 1800 | 1800 | 1800 | 2000 | 2000 | 2100 | 2100 | 2200 | 2300 | 2300 | 2400 | 2500 | 2500 | 2500 |
| Package Weight | Net Weight | kg | 1200 | 1200 | 1500 | 1500 | 1800 | 1800 | 2100 | 2100 | 2500 | 2500 | 3000 | 3500 | 3500 | 4000 |
| | Operational Weight | kg | 1500 | 1500 | 1800 | 1800 | 2200 | 2200 | 2500 | 2500 | 3000 | 3000 | 3800 | 4200 | 4200 | 4800 |

Note:1. Power system: 3P/380V/50Hz, voltage fluctuation range: ±10%.

2. The inlet and outlet of units are connected by flanges. Details should be given in the order if other connections are required.

3. Due to technology improvement, the parameters, overall dimension and weight of the units may differs, and the actual design shall prevail.

4. The units mentioned above are the standard ones,customer specific designs can be wade(basod on requirement).

## High-temperature Water Cooled Dry-type Brine Units（R507A）·Continued

| Model | | | CW2H__WDGPANNA | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 0190 | 0240 | 0280 | 0330 | 0380 | 0460 | 0515 | 0550 | 0635 | 0700 | 0805 | 0885 | 0950 | 1105 |
| Refrigeration Capacity | kW | | 191.4 | 243.4 | 284 | 332.6 | 384.6 | 464.0 | 516.0 | 553.4 | 635.6 | 704.4 | 806.4 | 888.8 | 950.2 | 1107.8 |
| | kCal/h | | 164604 | 209324 | 244240 | 286036 | 330756 | 399040 | 443760 | 475924 | 546616 | 605784 | 693504 | 764368 | 817172 | 952708 |
| Compressor | Qty | Platform | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| | Input Power | kW | 53.8 | 68.4 | 79.8 | 93.6 | 108.2 | 130.4 | 145.0 | 155.6 | 202.6 | 224.0 | 257.2 | 283.2 | 302.4 | 352.4 |
| | Capacity Control | | Fully loaded -75-50%，min | | | | | | | | | | | | | |
| | Start Method | | Y/△ | | | | | | | | | | | | | |
| | Refrigerant | | R507A | | | | | | | | | | | | | |
| Evaporator | Type | | Shell and tube dry evaporator | | | | | | | | | | | | | |
| | Inlet And Outlet Water Temperature | ℃ | 8/3 | | | | | | | | | | | | | |
| | Water Flow | $m^3/h$ | 36.4 | 46.2 | 54.0 | 63.2 | 73.1 | 88.2 | 98.0 | 105.2 | 120.8 | 133.9 | 153.2 | 168.9 | 180.6 | 210.6 |
| | Water Inlet And Outlet Pipes | mm | 89 | 108 | 108 | 108 | 133 | 133 | 133 | 159 | 159 | 159 | 159 | 219 | 219 | 219 |
| | Water Pressure Drop | kPa | ≤ 70 | | | | | | | | | | | | | |
| Condenser | Type | | Shell and Tube Condenser | | | | | | | | | | | | | |
| | Inlet And Outlet Water Temperature | ℃ | 30/35 | | | | | | | | | | | | | |
| | Water Flow | $m^3/h$ | 42.5 | 54.0 | 63.0 | 73.8 | 85.4 | 103.0 | 114.4 | 122.8 | 145.2 | 160.6 | 184.0 | 203.0 | 216.8 | 252.8 |
| | Water Inlet And Outlet Pipes | mm | 108 | 108 | 108 | 133 | 133 | 159 | 159 | 159 | 159 | 219 | 219 | 219 | 219 | 219 |
| | Water Pressure Drop | kPa | ≤ 70 | | | | | | | | | | | | | |
| Overall Dimension | L | mm | 3200 | 3200 | 3200 | 3200 | 3700 | 3700 | 3700 | 3700 | 3700 | 3700 | 3700 | 4200 | 4200 | 4200 |
| | W | mm | 2200 | 2200 | 2200 | 2200 | 2300 | 2350 | 2350 | 2350 | 2400 | 2400 | 2400 | 2400 | 2400 | 2500 |
| | H | mm | 2000 | 2000 | 2000 | 2100 | 2100 | 2200 | 2200 | 2200 | 2300 | 2300 | 2300 | 2400 | 2400 | 2400 |
| Package Weight | Net Weight | kg | 3000 | 3500 | 3500 | 4000 | 4000 | 4500 | 4500 | 5000 | 5000 | 5000 | 5000 | 6000 | 6000 | 6500 |
| | Operational Weight | kg | 3600 | 4200 | 4200 | 4800 | 4800 | 5400 | 5400 | 6000 | 6000 | 6000 | 6000 | 7000 | 7000 | 7500 |

Note:1. Power system: 3P/380V/50Hz, voltage fluctuation range: ±10%.

2. The inlet and outlet of units are connected by flanges. Details should be given in the order if other connections are required.

3. Due to technology improvement, the parameters, overall dimension and weight of the units may differs, and the actual design shall prevail.

4. The units mentioned above are the standard ones,customer specific designs can be wade(basod on requirement).

## High-temperature Water Cooled Dry-type Brine Units（R507A）·Continued

| Model | | | CW1H__WDBPANNA | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 0095 | 0120 | 0140 | 0165 | 0190 | 0230 | 0255 | 0275 | 0315 | 0350 | 0400 | 0440 | 0475 | 0550 |
| Refrigeration Capacity | kW | | 95.7 | 121.7 | 142.0 | 166.3 | 192.3 | 232.0 | 258.0 | 276.7 | 317.8 | 352.1 | 403.2 | 444.4 | 475.1 | 553.9 |
| | kCal/h | | 82302 | 104662 | 122120 | 143018 | 165378 | 199520 | 221880 | 237962 | 273308 | 302806 | 346752 | 382184 | 408586 | 476354 |
| Compressor | Qty | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | Input Power | kW | 26.9 | 34.2 | 39.9 | 46.8 | 54.1 | 65.2 | 72.5 | 77.8 | 101.3 | 112.0 | 128.6 | 141.6 | 151.2 | 176.2 |
| | Capacity Control | | Fully loaded -75-50%，min | | | | | | | | | | | | | |
| | Start Method | | Y/△ | | | | | | | | | | | | | |
| | Refrigerant | | R507A | | | | | | | | | | | | | |
| Evaporator | Type | | Shell and tube dry evaporator | | | | | | | | | | | | | |
| | Inlet And Outlet Water Temperature | ℃ | 8/3 | | | | | | | | | | | | | |
| | Water Flow | $m^3/h$ | 17.9 | 22.8 | 26.6 | 31.2 | 36.0 | 43.0 | 48.4 | 51.9 | 59.6 | 66.0 | 75.6 | 83.3 | 89.1 | 103.9 |
| | Water Inlet And Outlet Pipes | mm | 76 | 76 | 89 | 89 | 89 | 108 | 108 | 108 | 108 | 133 | 133 | 133 | 133 | 159 |
| | Water Pressure Drop | kPa | ≤ 70 | | | | | | | | | | | | | |
| Condenser | Type | | Shell and Tube Condenser | | | | | | | | | | | | | |
| | Inlet And Outlet Water Temperature | ℃ | 30/35 | | | | | | | | | | | | | |
| | Water Flow | $m^3/h$ | 21.2 | 27.0 | 31.5 | 36.9 | 42.7 | 51.5 | 57.2 | 61.4 | 72.6 | 80.3 | 92.0 | 101.5 | 108.4 | 126.4 |
| | Water Inlet And Outlet Pipes | mm | 76 | 89 | 89 | 89 | 108 | 108 | 108 | 108 | 133 | 133 | 133 | 159 | 159 | 159 |
| | Water Pressure Drop | kPa | ≤ 70 | | | | | | | | | | | | | |
| Overall Dimension | L | mm | 2500 | 2500 | 2500 | 2500 | 3200 | 3200 | 3200 | 3200 | 3200 | 3200 | 3700 | 3700 | 3700 | 3700 |
| | W | mm | 1200 | 1200 | 1200 | 1300 | 1300 | 1400 | 1400 | 1500 | 1500 | 1500 | 1600 | 1700 | 1700 | 1700 |
| | H | mm | 1800 | 1800 | 1800 | 2000 | 2000 | 2100 | 2100 | 2200 | 2300 | 2300 | 2400 | 2500 | 2500 | 2500 |
| Package Weight | Net Weight | kg | 1200 | 1200 | 1500 | 1500 | 1800 | 1800 | 2100 | 2100 | 2500 | 2500 | 3000 | 3500 | 3500 | 4000 |
| | Operational Weight | kg | 1500 | 1500 | 1800 | 1800 | 2200 | 2200 | 2500 | 2500 | 3000 | 3000 | 3800 | 4200 | 4200 | 4800 |

Note:1. Power system: 3P/380V/50Hz, voltage fluctuation range: ±10%.

2. The inlet and outlet of units are connected by flanges. Details should be given in the order if other connections are required.

3. Due to technology improvement, the parameters, overall dimension and weight of the units may differs, and the actual design shall prevail.

4. The units mentioned above are the standard ones,customer specific designs can be wade(basod on requirement).



## High-temperature Water Cooled Dry-type Brine Units（R507A）·Continued

| Model | | | CW2H__WDBPANNA | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 0190 | 0240 | 0280 | 0330 | 0380 | 0460 | 0515 | 0550 | 0635 | 0700 | 0805 | 0885 | 0950 | 1105 |
| Refrigeration Capacity | kW | | 191.4 | 243.4 | 284.0 | 332.6 | 384.6 | 464.0 | 516.0 | 553.4 | 635.6 | 704.4 | 806.4 | 888.8 | 950.2 | 1107.8 |
| | kCal/h | | 164604 | 209324 | 244240 | 286036 | 330756 | 399040 | 443760 | 475924 | 546616 | 605784 | 693504 | 764368 | 817172 | 952708 |
| Compressor | Qty | Platform | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| | Input Power | kW | 53.8 | 68.4 | 79.8 | 93.6 | 108.2 | 130.4 | 145.0 | 155.6 | 202.6 | 224.0 | 257.2 | 283.2 | 302.4 | 352.4 |
| | Capacity Control | | Fully loaded -75-50%，min | | | | | | | | | | | | | |
| | Start Method | | Y/△ | | | | | | | | | | | | | |
| | Refrigerant | | R507A | | | | | | | | | | | | | |
| Evaporator | Type | | Shell and tube dry evaporator | | | | | | | | | | | | | |
| | In And Out Water Temperature | ℃ | 8/3 | | | | | | | | | | | | | |
| | Water Flow | $m^3/h$ | 35.9 | 45.6 | 53.2 | 62.4 | 72.1 | 87.0 | 96.8 | 103.8 | 119.2 | 132.1 | 151.2 | 166.7 | 178.2 | 207.8 |
| | In And Out Water Pipes | mm | 89 | 108 | 108 | 108 | 133 | 133 | 133 | 159 | 159 | 159 | 159 | 219 | 219 | 219 |
| | Water Pressure Drop | kPa | ≤ 70 | | | | | | | | | | | | | |
| Condenser | Type | | Shell and Tube Condenser | | | | | | | | | | | | | |
| | In And Out Water Temperature | ℃ | 30/35 | | | | | | | | | | | | | |
| | Water Flow | $m^3/h$ | 42.5 | 54.0 | 63.0 | 73.8 | 85.4 | 103.0 | 114.4 | 122.8 | 145.2 | 160.6 | 184.0 | 203.0 | 216.8 | 252.8 |
| | In And Out Water Pipes | mm | 108 | 108 | 108 | 133 | 133 | 159 | 159 | 159 | 159 | 219 | 219 | 219 | 219 | 219 |
| | Water Pressure Drop | kPa | ≤ 70 | | | | | | | | | | | | | |
| Overall Dimension | L | mm | 3200 | 3200 | 3200 | 3200 | 3700 | 3700 | 3700 | 3700 | 3700 | 3700 | 3700 | 4200 | 4200 | 4200 |
| | W | mm | 2200 | 2200 | 2200 | 2200 | 2300 | 2350 | 2350 | 2350 | 2400 | 2400 | 2400 | 2400 | 2400 | 2500 |
| | H | mm | 2000 | 2000 | 2000 | 2100 | 2100 | 2200 | 2200 | 2200 | 2300 | 2300 | 2300 | 2400 | 2400 | 2400 |
| Package Weight | Net Weight | kg | 3000 | 3500 | 3500 | 4000 | 4000 | 4500 | 4500 | 5000 | 5000 | 5000 | 5000 | 6000 | 6000 | 6500 |
| | Operational Weight | kg | 3600 | 4200 | 4200 | 4800 | 4800 | 5400 | 5400 | 6000 | 6000 | 6000 | 6000 | 7000 | 7000 | 7500 |

Note:1. Power system: 3P/380V/50Hz, voltage fluctuation range: ±10%.

2. The inlet and outlet of units are connected by flanges. Details should be given in the order if other connections are required.

3. Due to technology improvement, the parameters, overall dimension and weight of the units may differs, and the actual design shall prevail.

4. The units mentioned above are the standard ones,customer specific designs can be wade(basod on requirement).

## High-temperature Water Cooled Flooded Brine Units（R507A）

| Model | | | CW1H__WFGPANNA | | CW2H__WFGPANNA | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 0515 | 0600 | 0555 | 0595 | 0685 | 0760 | 0870 | 0960 | 1030 | 1200 |
| Refrigeration Capacity | kW | | 515.0 | 600.5 | 555.2 | 595.2 | 689.0 | 763.4 | 874.2 | 963.4 | 1030.0 | 1201.0 |
| | kCal/h | | 442900 | 516430 | 477472 | 511872 | 592540 | 656524 | 751812 | 828524 | 885800 | 1032860 |
| Compressor | Qty | Platform | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| | Input Power | kW | 153.5 | 179.0 | 143.8 | 154.2 | 205.6 | 227.6 | 261.2 | 287.6 | 307.0 | 358.0 |
| | Capacity Control | | Fully loaded -75-50%，min | | | | | | | | | |
| | Start Method | | Y/△ | | | | | | | | | |
| | Refrigerant | | R507A | | | | | | | | | |
| Evaporator | Type | | Shell and tube flooded evaporator | | | | | | | | | |
| | Inlet And Outlet Water Temperature | ℃ | 8/3 | | | | | | | | | |
| | Water Flow | $m^3/h$ | 92.4 | 107.7 | 99.6 | 106.8 | 123.6 | 136.9 | 156.8 | 172.8 | 184.7 | 215.4 |
| | Water Inlet And Outlet Pipes | mm | 133 | 159 | 159 | 159 | 159 | 159 | 159 | 219 | 219 | 219 |
| | Water Pressure Drop | kPa | ≤ 70 | | | | | | | | | |
| Condenser | Type | | Shell and Tube Water Cooled Condenser | | | | | | | | | |
| | Inlet And Outlet Water Temperature | ℃ | 30/35 | | | | | | | | | |
| | Water Flow | $m^3/h$ | 116.0 | 135.3 | 121.3 | 130.1 | 155.3 | 172.0 | 197.0 | 217.1 | 232.0 | 270.6 |
| | Water Inlet And Outlet Pipes | mm | 159 | 159 | 159 | 159 | 159 | 219 | 219 | 219 | 219 | 219 |
| | Water Pressure Drop | kPa | ≤ 70 | | | | | | | | | |
| Overall Dimension | L | mm | 4200 | 4200 | 4200 | 4200 | 4200 | 4200 | 4200 | 4200 | 4200 | 4200 |
| | W | mm | 1600 | 1600 | 2300 | 2350 | 2350 | 2350 | 2400 | 2400 | 2400 | 2400 |
| | H | mm | 2400 | 2400 | 2100 | 2200 | 2200 | 2200 | 2300 | 2300 | 2300 | 2400 |
| Package Weight | Net Weight | kg | 4000 | 4500 | 5000 | 5000 | 5500 | 5500 | 6500 | 6500 | 7000 | 8000 |
| | Operational Weight | kg | 4800 | 5300 | 6000 | 6000 | 6500 | 6500 | 7500 | 7500 | 8500 | 8500 |

Note:1. Power system: 3P/380V/50Hz, voltage fluctuation range: ±10%.

2. The inlet and outlet of units are connected by flanges. Details should be given in the order if other connections are required.

3. Due to technology improvement, the parameters, overall dimension and weight of the units may differs, and the actual design shall prevail.

4. The units mentioned above are the standard ones,customer specific designs can be wade(basod on requirement).

## Medium-temperature Water Cooled Dry-type Brine Units（R507A）

| Model | | | CW1M__WDGPANAA | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 0050 | 0070 | 0080 | 0095 | 0110 | 0135 | 0150 | 0160 | 0180 | 0205 | 0235 | 0270 | 0290 | 0340 |
| Refrigeration Capacity | kW | | 54.3 | 72.6 | 84.7 | 98.1 | 113.4 | 136.9 | 152.2 | 161.7 | 184.8 | 206.7 | 239.3 | 270.4 | 290.1 | 340.1 |
| | kCal/h | | 46698 | 62436 | 72842 | 84366 | 97524 | 117734 | 130892 | 139062 | 158928 | 177762 | 205798 | 232544 | 249486 | 292486 |
| Compressor | Qty | Platform | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | Input Power | kW | 27.4 | 34.0 | 38.7 | 47.1 | 54.7 | 65.7 | 72.9 | 78.0 | 86.1 | 95.3 | 109.2 | 120.3 | 128.4 | 149.9 |
| | Adjustable | | Fully loaded -75-50%，min | | | | | | | | | | | | | |
| | Start Method | | Y/△ | | | | | | | | | | | | | |
| | Refrigerant | | R507A | | | | | | | | | | | | | |
| Evaporator | Form | | Shell and tube dry evaporator | | | | | | | | | | | | | |
| | Inlet And Outlet Water Temperature | ℃ | -5/-10 | | | | | | | | | | | | | |
| | Water Flow | $m^3/h$ | 10.5 | 14.0 | 16.4 | 19.0 | 21.9 | 26.5 | 29.5 | 31.3 | 35.8 | 40.0 | 46.3 | 52.3 | 56.1 | 65.8 |
| | Water Inlet And Outlet Pipes | mm | 57 | 57 | 76 | 76 | 76 | 89 | 89 | 89 | 89 | 89 | 108 | 108 | 108 | 133 |
| | Water Pressure Drop | kPa | ≤ 70 | | | | | | | | | | | | | |
| Condenser | Form | | Shell and Tube Condenser | | | | | | | | | | | | | |
| | Inlet And Outlet Water Temperature | ℃ | 30/35 | | | | | | | | | | | | | |
| | Water Flow | $m^3/h$ | 14.1 | 18.5 | 21.4 | 25.1 | 29.1 | 35.0 | 39.0 | 41.5 | 46.9 | 52.3 | 60.3 | 67.6 | 72.5 | 84.8 |
| | Water Inlet And Outlet Pipes | mm | 57 | 76 | 76 | 89 | 89 | 89 | 89 | 108 | 108 | 108 | 108 | 133 | 133 | 133 |
| | Water Pressure Drop | kPa | ≤ 70 | | | | | | | | | | | | | |
| Overall Dimension | L | mm | 2800 | 2800 | 2800 | 2800 | 2800 | 2800 | 2800 | 2800 | 2800 | 3300 | 3300 | 3300 | 3300 | 3300 |
| | W | mm | 1300 | 1300 | 1300 | 1300 | 1400 | 1400 | 1400 | 1400 | 1400 | 1400 | 1400 | 1500 | 1550 | 1550 |
| | H | mm | 1500 | 1700 | 1800 | 1800 | 1800 | 1800 | 1800 | 1800 | 1800 | 1900 | 2050 | 2050 | 2050 | 2050 |
| Package Weight | Net Weight | kg | 1500 | 1500 | 1500 | 1500 | 1800 | 1800 | 2100 | 2100 | 2100 | 2500 | 2500 | 2500 | 3000 | 3500 |
| | Operational Weight | kg | 1800 | 1800 | 1800 | 1800 | 2200 | 2200 | 2500 | 2500 | 2500 | 3000 | 3000 | 3000 | 3600 | 4200 |

Note:1. Power system: 3P/380V/50Hz, voltage fluctuation range: ±10%.

2. The inlet and outlet of units are connected by flanges. Details should be given in the order if other connections are required.

3. Due to technology improvement, the parameters, overall dimension and weight of the units may differs, and the actual design shall prevail.

4. The units mentioned above are the standard ones,customer specific designs can be wade(basod on requirement).

# Medium-temperature Water Cooled Dry-type Brine Units（R507A）·Continued



| Model | | | CW2M__WDGPANAA | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 0105 | 0145 | 0165 | 0195 | 0225 | 0270 | 0300 | 0320 | 0365 | 0410 | 0475 | 0540 | 0580 | 0680 |
| Refrigeration Capacity | kW | | 108.6 | 145.2 | 165.4 | 196.2 | 226.8 | 273.8 | 304.4 | 324.4 | 369.6 | 413.4 | 478.6 | 540.8 | 580.2 | 680.2 |
| | kCal/h | | 93396 | 124872 | 142244 | 168732 | 195048 | 235468 | 261784 | 278984 | 317856 | 355524 | 411596 | 465088 | 498972 | 584972 |
| Compressor | Quantity | Platform | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| | Input Power | kW | 54.8 | 77.6 | 94.2 | 94.2 | 109.4 | 131.4 | 145.8 | 156 | 172.2 | 190.6 | 218.4 | 240.6 | 256.8 | 298.8 |
| | Capacity Control | | Fully loaded -75-50%，min | | | | | | | | | | | | | |
| | Start Method | | Y/△ | | | | | | | | | | | | | |
| | Refrigerant | | R507A | | | | | | | | | | | | | |
| Evaporator | Type | | Shell and tube dry evaporator | | | | | | | | | | | | | |
| | Inlet And Outlet Water Temperature | ℃ | -5/-10 | | | | | | | | | | | | | |
| | Water Flow | $m^3/h$ | 21.0 | 28.0 | 32.8 | 38.0 | 43.8 | 53.0 | 59.0 | 62.6 | 71.6 | 80.0 | 92.6 | 104.6 | 112.2 | 131.6 |
| | Water Inlet And Outlet Pipes | mm | 76 | 89 | 89 | 89 | 108 | 108 | 108 | 108 | 133 | 133 | 133 | 159 | 159 | 159 |
| | Water Pressure Drop | kPa | ≤ 70 | | | | | | | | | | | | | |
| Condenser | Type | | Shell and Tube Condenser | | | | | | | | | | | | | |
| | Inlet And Outlet Water Temperature | ℃ | 30/35 | | | | | | | | | | | | | |
| | Water Flow | $m^3/h$ | 28.2 | 37.0 | 42.8 | 50.2 | 58.2 | 70.0 | 78.0 | 83.0 | 93.8 | 104.6 | 120.6 | 135.2 | 145.0 | 169.6 |
| | Water Inlet And Outlet Pipes | mm | 89 | 89 | 108 | 108 | 108 | 133 | 133 | 133 | 133 | 159 | 159 | 159 | 159 | 219 |
| | Water Pressure Drop | kPa | ≤ 70 | | | | | | | | | | | | | |
| Overall Dimension | L | mm | 2800 | 2800 | 2800 | 3300 | 3300 | 3300 | 3300 | 3300 | 3800 | 3800 | 3800 | 3800 | 3800 | 3800 |
| | W | mm | 2100 | 2200 | 2200 | 2200 | 2300 | 2300 | 2300 | 2350 | 2350 | 2350 | 2400 | 2400 | 2400 | 2400 |
| | H | mm | 1800 | 1800 | 1900 | 2000 | 2050 | 2050 | 2150 | 2150 | 2150 | 2150 | 2150 | 2150 | 2150 | 2150 |
| Package Weight | Net Weight | kg | 3500 | 3500 | 4000 | 4000 | 4500 | 4500 | 5000 | 5000 | 5500 | 5500 | 6000 | 6000 | 6500 | 6500 |
| | Operational Weight | kg | 4200 | 4200 | 4800 | 4800 | 5400 | 5400 | 6000 | 6000 | 6500 | 6500 | 7000 | 7000 | 7500 | 7500 |

Note:1. Power system: 3P/380V/50Hz, voltage fluctuation range: ±10%.

2. The inlet and outlet of units are connected by flanges. Details should be given in the order if other connections are required.

3. Due to technology improvement, the parameters, overall dimension and weight of the units may differs, and the actual design shall prevail.

4. The units mentioned above are the standard ones,customer specific designs can be wade(basod on requirement).

Medium-temperature Water Cooled Dry-type Brine Units（R507A）·Continued

| Model | | | CW1M__WDBPANAA | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 0050 | 0070 | 0080 | 0095 | 0110 | 0135 | 0150 | 0160 | 0180 | 0205 | 0235 | 0270 | 0290 | 0340 |
| Refrigeration Capacity | kW | | 54.3 | 72.6 | 84.7 | 98.1 | 113.4 | 136.9 | 152.2 | 161.7 | 184.8 | 206.7 | 239.3 | 270.4 | 290.1 | 340.1 |
| | kCal/h | | 46698 | 62436 | 72842 | 84366 | 97524 | 117734 | 130892 | 139062 | 158928 | 177762 | 205798 | 232544 | 249486 | 292486 |
| Compressor | Qty | Platform | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | Input Power | kW | 27.4 | 34.0 | 38.7 | 47.1 | 54.7 | 65.7 | 72.9 | 78.0 | 86.1 | 95.3 | 109.2 | 120.3 | 128.4 | 149.9 |
| | Capacity Control | | Fully loaded -75-50%，min | | | | | | | | | | | | | |
| | Start Method | | Y/△ | | | | | | | | | | | | | |
| | Refrigerant | | R507A | | | | | | | | | | | | | |
| Evaporator | Type | | Shell and tube dry evaporator | | | | | | | | | | | | | |
| | Inlet And Outlet Water Temperature | ℃ | -5/-10 | | | | | | | | | | | | | |
| | Water Flow | $m^3/h$ | 10.9 | 14.6 | 17.0 | 19.7 | 22.8 | 27.4 | 30.5 | 32.5 | 37.0 | 41.5 | 48.0 | 54.3 | 58.2 | 68.3 |
| | Water Inlet And Outlet Pipes | mm | 57 | 76 | 76 | 76 | 76 | 89 | 89 | 89 | 89 | 108 | 108 | 108 | 108 | 133 |
| | Water Pressure Drop | kPa | ≤ 70 | | | | | | | | | | | | | |
| Condenser | Type | | Shell and Tube Condenser | | | | | | | | | | | | | |
| | Inlet And Outlet Water Temperature | ℃ | 30/35 | | | | | | | | | | | | | |
| | Water Flow | $m^3/h$ | 14.1 | 18.5 | 21.4 | 25.1 | 29.1 | 35.0 | 39.0 | 41.5 | 46.9 | 52.3 | 60.3 | 67.6 | 72.5 | 84.8 |
| | Water Inlet And Outlet Pipes | mm | 57 | 76 | 76 | 89 | 89 | 89 | 89 | 108 | 108 | 108 | 108 | 133 | 133 | 133 |
| | Water Pressure Drop | kPa | ≤ 70 | | | | | | | | | | | | | |
| Overall Dimension | L | mm | 2800 | 2800 | 2800 | 2800 | 2800 | 2800 | 2800 | 2800 | 2800 | 3300 | 3300 | 3300 | 3300 | 3300 |
| | W | mm | 1300 | 1300 | 1300 | 1300 | 1400 | 1400 | 1400 | 1400 | 1400 | 1400 | 1400 | 1500 | 1550 | 1550 |
| | H | mm | 1500 | 1700 | 1800 | 1800 | 1800 | 1800 | 1800 | 1800 | 1800 | 1900 | 2050 | 2050 | 2050 | 2050 |
| Package Weight | Net Weight | kg | 1500 | 1500 | 1500 | 1500 | 1800 | 1800 | 2100 | 2100 | 2100 | 2500 | 2500 | 2500 | 3000 | 3500 |
| | Operational Weight | kg | 1800 | 1800 | 1800 | 1800 | 2200 | 2200 | 2500 | 2500 | 2500 | 3000 | 3000 | 3000 | 3600 | 4200 |

Note:1. Power system: 3P/380V/50Hz, voltage fluctuation range: ±10%.

2. The inlet and outlet of units are connected by flanges. Details should be given in the order if other connections are required.

3. Due to technology improvement, the parameters, overall dimension and weight of the units may differs, and the actual design shall prevail.

4. The units mentioned above are the standard ones,customer specific designs can be wade(basod on requirement).

## Medium-temperature Water Cooled Dry-type Brine Units（R507A）·Continued

| Model | | | CW2M__WDBPANAA | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 0105 | 0145 | 0165 | 0195 | 0225 | 0270 | 0300 | 0320 | 0365 | 0410 | 0475 | 0540 | 0580 | 0680 |
| Refrigeration Capacity | kW | | 108.6 | 145.2 | 165.4 | 196.2 | 226.8 | 273.8 | 304.4 | 324.4 | 369.6 | 413.4 | 478.6 | 540.8 | 580.2 | 680.2 |
| | kCal/h | | 93396 | 124872 | 142244 | 168732 | 195048 | 235468 | 261784 | 278984 | 317856 | 355524 | 411596 | 465088 | 498972 | 584972 |
| Compressor | Qty | Platform | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| | Input Power | kW | 54.8 | 77.6 | 94.2 | 94.2 | 109.4 | 131.4 | 145.8 | 156.0 | 172.2 | 190.6 | 218.4 | 240.6 | 256.8 | 298.8 |
| | Capacity Control | | Fully loaded -75-50%，min | | | | | | | | | | | | | |
| | Start Method | | Y/△ | | | | | | | | | | | | | |
| | Refrigerant | | R507A | | | | | | | | | | | | | |
| Evaporator | Type | | Shell and tube dry evaporator | | | | | | | | | | | | | |
| | Inlet And Outlet Water Temperature | ℃ | -5/-10 | | | | | | | | | | | | | |
| | Water Flow | m³/h | 21.8 | 29.2 | 34.0 | 39.4 | 45.6 | 54.8 | 61.0 | 65.0 | 74.0 | 83.0 | 96.0 | 108.6 | 116.4 | 136.4 |
| | Water Inlet And Outlet Pipes | mm | 76 | 89 | 89 | 89 | 108 | 108 | 108 | 133 | 133 | 133 | 133 | 159 | 159 | 159 |
| | Water Pressure Drop | kPa | ≤ 70 | | | | | | | | | | | | | |
| Condenser | Type | | Shell and Tube Condenser | | | | | | | | | | | | | |
| | Inlet And Outlet Water Temperature | ℃ | 30/35 | | | | | | | | | | | | | |
| | Water Flow | m³/h | 28.2 | 37.0 | 42.8 | 50.2 | 58.2 | 70.0 | 78.0 | 83.0 | 93.8 | 104.6 | 120.6 | 135.2 | 145.0 | 169.6 |
| | Water Inlet And Outlet Pipes | mm | 89 | 89 | 108 | 108 | 108 | 133 | 133 | 133 | 133 | 159 | 159 | 159 | 159 | 219 |
| | Water Pressure Drop | kPa | ≤ 70 | | | | | | | | | | | | | |
| Overall Dimension | L | mm | 2800 | 2800 | 2800 | 3300 | 3300 | 3300 | 3300 | 3300 | 3800 | 3800 | 3800 | 3800 | 3800 | 3800 |
| | W | mm | 2100 | 2200 | 2200 | 2200 | 2300 | 2300 | 2300 | 2350 | 2350 | 2350 | 2400 | 2400 | 2400 | 2400 |
| | H | mm | 1800 | 1800 | 1900 | 2000 | 2050 | 2050 | 2150 | 2150 | 2150 | 2150 | 2150 | 2150 | 2150 | 2150 |
| Package Weight | Net Weight | kg | 3500 | 3500 | 4000 | 4000 | 4500 | 4500 | 5000 | 5000 | 5500 | 5500 | 6000 | 6000 | 6500 | 6500 |
| | Operational Weight | kg | 4200 | 4200 | 4800 | 4800 | 5400 | 5400 | 6000 | 6000 | 6500 | 6500 | 7000 | 7000 | 7500 | 7500 |

Note: 1. Power system: 3P/380V/50Hz, voltage fluctuation range: ±10%.

2. The inlet and outlet of units are connected by flanges. Details should be given in the order if other connections are required.

3. Due to technology improvement, the parameters, overall dimension and weight of the units may differs, and the actual design shall prevail.

4. The units mentioned above are the standard ones,customer specific designs can be wade(basod on requirement).

## Low Temperature Water-cooled Dry Brine Unit Technical Parameter Table (R507A)

| Unit Type | | | CW1L__WDGPAWAA | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 0040 | 0050 | 0060 | 0070 | 0080 | 0095 | 0105 | 0115 | 0145 | 0160 | 0190 | 0205 | 0215 | 0245 |
| Cooling Capacity | kW | | 42.3 | 53.9 | 61.5 | 73.4 | 84.5 | 99.6 | 109.1 | 115.0 | 147.8 | 162.9 | 193.3 | 205.1 | 217.0 | 249.4 |
| | kCal/h | | 36378 | 46354 | 52890 | 63124 | 72670 | 85656 | 93826 | 98900 | 127108 | 140094 | 166238 | 176386 | 186620 | 214484 |
| Compressor | Quantity | set | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | Input Power | kW | 28.3 | 33.7 | 37.3 | 45.4 | 52.2 | 61.3 | 66.9 | 70.9 | 90.3 | 98.2 | 114.5 | 118.1 | 123.7 | 141.7 |
| | Adjustable | | Fully loaded -75-50%，min | | | | | | | | | | | | | |
| | Start Method | | Y/△ | | | | | | | | | | | | | |
| | Refrigerant | | R507A | | | | | | | | | | | | | |
| Evaporator | Form | | Shell and tube dry evaporator | | | | | | | | | | | | | |
| | In And Out Water Temperature | ℃ | -20/-25 | | | | | | | | | | | | | |
| | Water Flow | m³/h | 8.7 | 11.1 | 12.6 | 15.1 | 17.4 | 20.5 | 22.4 | 23.6 | 30.3 | 33.4 | 39.7 | 42.1 | 44.6 | 51.2 |
| | In And Out Water Pipes | mm | 45 | 57 | 57 | 76 | 76 | 76 | 76 | 76 | 89 | 89 | 89 | 108 | 108 | 108 |
| | Water Pressure Drop | kPa | ≤ 70 | | | | | | | | | | | | | |
| Condenser | Form | | Shell and Tube Condenser | | | | | | | | | | | | | |
| | In And Out Water Temperature | ℃ | 30/35 | | | | | | | | | | | | | |
| | Water Flow | m³/h | 12.0 | 15.2 | 17.1 | 20.6 | 23.7 | 27.9 | 30.5 | 32.2 | 41.2 | 48.0 | 53.3 | 56.0 | 59.0 | 67.7 |
| | In And Out Water Pipes | mm | 57 | 76 | 76 | 76 | 76 | 89 | 89 | 89 | 108 | 108 | 108 | 108 | 108 | 133 |
| | Water Pressure Drop | kPa | ≤ 70 | | | | | | | | | | | | | |
| Dimensions | L | mm | 2800 | 2800 | 2800 | 2800 | 2800 | 2800 | 2800 | 2800 | 2800 | 3400 | 3400 | 3400 | 3400 | 3400 |
| | W | mm | 1100 | 1100 | 1100 | 1200 | 1200 | 1300 | 1300 | 1300 | 1500 | 1500 | 1500 | 1600 | 1600 | 1600 |
| | H | mm | 1500 | 1500 | 1500 | 1600 | 1600 | 1700 | 1700 | 1700 | 1800 | 1800 | 1800 | 1900 | 1900 | 1900 |
| Unit Weight | Net Weight | kg | 1500 | 1500 | 1500 | 2000 | 2000 | 2500 | 2500 | 2500 | 3000 | 3000 | 3000 | 3500 | 3500 | 3500 |
| | Running Weight | kg | 1800 | 1800 | 1800 | 2400 | 2400 | 3000 | 3000 | 3000 | 3600 | 3600 | 3600 | 4200 | 4200 | 4200 |

Note: 1. Power system: 3P/380V/50Hz, voltage fluctuation range: ±10%.

2. The inlet and outlet of units are connected by flanges. Details should be given in the order if other connections are required.

3. Due to technology improvement, the parameters, overall dimension and weight of the units may differs, and the actual design shall prevail.

4. The units mentioned above are the standard ones,customer specific designs can be wade(basod on requirement).

## Low Temperature Water-cooled Dry Brine Unit Technical Parameter Table (R507A) Continued

| Unit Type | | | CW2L__WDGPAWAA | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 0080 | 0105 | 0120 | 0145 | 0165 | 0195 | 0215 | 0230 | 0295 | 0325 | 0385 | 0410 | 0430 | 0495 |
| Cooling Capacity | kW | | 84.6 | 107.8 | 123.0 | 146.8 | 169.0 | 199.2 | 218.2 | 230.0 | 295.6 | 325.8 | 386.6 | 410.2 | 434.0 | 498.8 |
| | kCal/h | | 72756 | 92708 | 105780 | 126248 | 145340 | 171312 | 187652 | 197800 | 254216 | 280188 | 332476 | 352772 | 373240 | 428968 |
| Compressor | Quantity | set | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| | Input Power | kW | 56.6 | 67.4 | 74.6 | 90.8 | 104.4 | 122.6 | 133.8 | 141.8 | 180.6 | 196.4 | 229.0 | 236.2 | 247.4 | 283.4 |
| | Adjustable | | Fully loaded -75-50%, min | | | | | | | | | | | | | |
| | Start Method | | Y/△ | | | | | | | | | | | | | |
| | Refrigerant | | R507A | | | | | | | | | | | | | |
| Evaporator | Form | | Shell and tube dry evaporator | | | | | | | | | | | | | |
| | In And Out Water Temperature | ℃ | -20/-25 | | | | | | | | | | | | | |
| | Water Flow | m³/h | 17.4 | 22.1 | 25.3 | 30.1 | 34.7 | 40.9 | 44.8 | 47.2 | 60.7 | 66.9 | 79.4 | 84.2 | 89.1 | 102.4 |
| | In And Out Water Pipes | mm | 76 | 76 | 89 | 89 | 89 | 108 | 108 | 108 | 108 | 133 | 133 | 133 | 133 | 159 |
| | Water Pressure Drop | kPa | ≤ 70 | | | | | | | | | | | | | |
| Condenser | Form | | Shell and Tube Condenser | | | | | | | | | | | | | |
| | In And Out Water Temperature | ℃ | 30/35 | | | | | | | | | | | | | |
| | Water Flow | m³/h | 24.4 | 30.3 | 34.2 | 41.1 | 47.3 | 55.7 | 60.9 | 64.4 | 82.4 | 90.4 | 106.6 | 111.9 | 118.0 | 135.4 |
| | In And Out Water Pipes | mm | 89 | 89 | 89 | 108 | 108 | 108 | 108 | 133 | 133 | 133 | 159 | 159 | 159 | 159 |
| | Water Pressure Drop | kPa | ≤ 70 | | | | | | | | | | | | | |
| Dimensions | L | mm | 2800 | 2800 | 2800 | 2800 | 3400 | 3400 | 3400 | 3400 | 3800 | 3800 | 3800 | 3800 | 3800 | 3800 |
| | W | mm | 1700 | 1700 | 1700 | 2000 | 2000 | 2200 | 2200 | 2200 | 2300 | 2300 | 2300 | 2500 | 2500 | 2500 |
| | H | mm | 1500 | 1500 | 1500 | 1600 | 1600 | 1700 | 1700 | 1700 | 1800 | 1800 | 1800 | 1900 | 1900 | 1900 |
| Unit Weight | Net Weight | kg | 2000 | 2000 | 2000 | 3000 | 3000 | 4000 | 4000 | 4000 | 4500 | 4500 | 4500 | 5000 | 5000 | 5000 |
| | Running Weight | kg | 2400 | 2400 | 2400 | 3600 | 3600 | 4600 | 4600 | 4600 | 5400 | 5400 | 5400 | 6000 | 6000 | 6000 |

Note:1. Power system: 3P/380V/50Hz, voltage fluctuation range: ±10%.

2. The inlet and outlet of units are connected by flanges. Details should be given in the order if other connections are required.

3. Due to technology improvement, the parameters, overall dimension and weight of the units may differs, and the actual design shall prevail.

4. The units mentioned above are the standard ones,customer specific designs can be wade(basod on requirement).

## Low Temperature Water-cooled Dry Brine Unit Technical Parameter Table (R507A) Continued

| Unit Type | | | CW1L__WDBPAWAA | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 0040 | 0050 | 0060 | 0070 | 0080 | 0095 | 0105 | 0115 | 0145 | 0160 | 0190 | 0205 | 0215 | 0245 |
| Cooling Capacity | kW | | 42.3 | 53.9 | 61.5 | 73.4 | 84.5 | 99.6 | 109.1 | 115.0 | 147.8 | 162.9 | 193.3 | 205.1 | 217.0 | 249.4 |
| | kCal/h | | 36378 | 46354 | 52890 | 63124 | 72670 | 85656 | 93826 | 98900 | 127108 | 140094 | 166238 | 176386 | 186620 | 214484 |
| Compressor | Quantity | set | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | Input Power | kW | 28.3 | 33.7 | 37.3 | 45.4 | 52.2 | 61.3 | 66.9 | 70.9 | 90.3 | 98.2 | 114.5 | 118.1 | 123.7 | 141.7 |
| | Adjustable | | Fully loaded -75-50%, min | | | | | | | | | | | | | |
| | Start Method | | Y/△ | | | | | | | | | | | | | |
| | Refrigerant | | R507A | | | | | | | | | | | | | |
| Evaporator | Form | | Shell and tube dry evaporator | | | | | | | | | | | | | |
| | In And Out Water Temperature | ℃ | -20/-25 | | | | | | | | | | | | | |
| | Water Flow | m³/h | 8.7 | 11.0 | 12.6 | 15.0 | 17.3 | 20.4 | 22.3 | 23.5 | 30.2 | 33.3 | 39.5 | 42.0 | 44.4 | 51.0 |
| | In And Out Water Pipes | mm | 45 | 57 | 57 | 76 | 76 | 76 | 76 | 76 | 89 | 89 | 89 | 108 | 108 | 108 |
| | Water Pressure Drop | kPa | ≤ 70 | | | | | | | | | | | | | |
| Condenser | Form | | Shell and Tube Condenser | | | | | | | | | | | | | |
| | In And Out Water Temperature | ℃ | 30/35 | | | | | | | | | | | | | |
| | Water Flow | m³/h | 12.0 | 15.2 | 17.1 | 20.6 | 23.7 | 27.9 | 30.5 | 32.2 | 41.2 | 48.0 | 53.3 | 56.0 | 59.0 | 67.7 |
| | In And Out Water Pipes | mm | 57 | 76 | 76 | 76 | 76 | 89 | 89 | 89 | 108 | 108 | 108 | 108 | 108 | 133 |
| | Water Pressure Drop | kPa | ≤ 70 | | | | | | | | | | | | | |
| Dimensions | L | mm | 2800 | 2800 | 2800 | 2800 | 2800 | 2800 | 2800 | 2800 | 2800 | 3400 | 3400 | 3400 | 3400 | 3400 |
| | W | mm | 1100 | 1100 | 1100 | 1200 | 1200 | 1300 | 1300 | 1300 | 1500 | 1500 | 1500 | 1600 | 1600 | 1600 |
| | H | mm | 1500 | 1500 | 1500 | 1600 | 1600 | 1700 | 1700 | 1700 | 1800 | 1800 | 1800 | 1900 | 1900 | 1900 |
| Unit Weight | Net Weight | kg | 1500 | 1500 | 1500 | 2000 | 2000 | 2500 | 2500 | 2500 | 3000 | 3000 | 3000 | 3500 | 3500 | 3500 |
| | Running Weight | kg | 1800 | 1800 | 1800 | 2400 | 2400 | 3000 | 3000 | 3000 | 3600 | 3600 | 3600 | 4200 | 4200 | 4200 |

Note:1. Power system: 3P/380V/50Hz, voltage fluctuation range: ±10%.

2. The inlet and outlet of units are connected by flanges. Details should be given in the order if other connections are required.

3. Due to technology improvement, the parameters, overall dimension and weight of the units may differs, and the actual design shall prevail.

4. The units mentioned above are the standard ones,customer specific designs can be wade(basod on requirement).

# Low Temperature Water-cooled Dry Brine Unit Technical Parameter Table (R507A) ContinuedA

| Unit Type | | | CW2L__WDBPAWAA | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 0080 | 0105 | 0120 | 0145 | 0165 | 0195 | 0215 | 0230 | 0295 | 0325 | 0385 | 0410 | 0430 | 0495 |
| Cooling Capacity | kW | | 84.6 | 107.8 | 123.0 | 146.8 | 169.0 | 199.2 | 218.2 | 230.0 | 295.6 | 325.8 | 386.6 | 410.2 | 434.0 | 498.8 |
| | kCal/h | | 72756 | 92708 | 105780 | 126248 | 145340 | 171312 | 187652 | 197800 | 254216 | 280188 | 332476 | 352772 | 373240 | 428968 |
| Compressor | Quantity | set | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| | Input Power | kW | 56.6 | 67.4 | 74.6 | 90.8 | 104.4 | 122.6 | 133.8 | 141.8 | 180.6 | 196.4 | 229.0 | 236.2 | 247.4 | 283.4 |
| | Adjustable | | Fully loaded -75-50%，min | | | | | | | | | | | | | |
| | Start Method | | Y/△ | | | | | | | | | | | | | |
| | Refrigerant | | R507A | | | | | | | | | | | | | |
| Evaporator | Form | | Shell and tube dry evaporator | | | | | | | | | | | | | |
| | In And Out Water Temperature | ℃ | -20/-25 | | | | | | | | | | | | | |
| | Water Flow | m³/h | 17.3 | 22.1 | 25.2 | 30.0 | 34.6 | 40.7 | 44.6 | 47.0 | 60.5 | 66.6 | 79.1 | 83.9 | 88.8 | 102.0 |
| | In And Out Water Pipes | mm | 76 | 76 | 89 | 89 | 89 | 108 | 108 | 108 | 108 | 133 | 133 | 233 | 133 | 159 |
| | Water Pressure Drop | kPa | ≤ 70 | | | | | | | | | | | | | |
| Condenser | Form | | Shell and Tube Condenser | | | | | | | | | | | | | |
| | In And Out Water Temperature | ℃ | 30/35 | | | | | | | | | | | | | |
| | Water Flow | m³/h | 24.4 | 30.3 | 34.2 | 41.1 | 47.3 | 55.7 | 60.9 | 64.4 | 82.4 | 90.4 | 106.6 | 111.9 | 118.0 | 135.4 |
| | In And Out Water Pipes | mm | 89 | 89 | 89 | 108 | 108 | 108 | 108 | 133 | 133 | 133 | 159 | 159 | 159 | 159 |
| | Water Pressure Drop | kPa | ≤ 70 | | | | | | | | | | | | | |
| Dimensions | L | mm | 2800 | 2800 | 2800 | 2800 | 3400 | 3400 | 3400 | 3400 | 3800 | 3800 | 3800 | 3800 | 3800 | 3800 |
| | W | mm | 1700 | 1700 | 1700 | 2000 | 2000 | 2200 | 2200 | 2200 | 2300 | 2300 | 2300 | 2500 | 2500 | 2500 |
| | H | mm | 1500 | 1500 | 1500 | 1600 | 1600 | 1700 | 1700 | 1700 | 1800 | 1800 | 1800 | 1900 | 1900 | 1900 |
| Unit Weight | Net Weight | kg | 2000 | 2000 | 2000 | 3000 | 3000 | 4000 | 4000 | 4000 | 4500 | 4500 | 4500 | 5000 | 5000 | 5000 |
| | Running Weight | kg | 2400 | 2400 | 2400 | 3600 | 3600 | 4600 | 4600 | 4600 | 5400 | 5400 | 5400 | 6000 | 6000 | 6000 |

Note:1. Power system: 3P/380V/50Hz, voltage fluctuation range: ±10%.

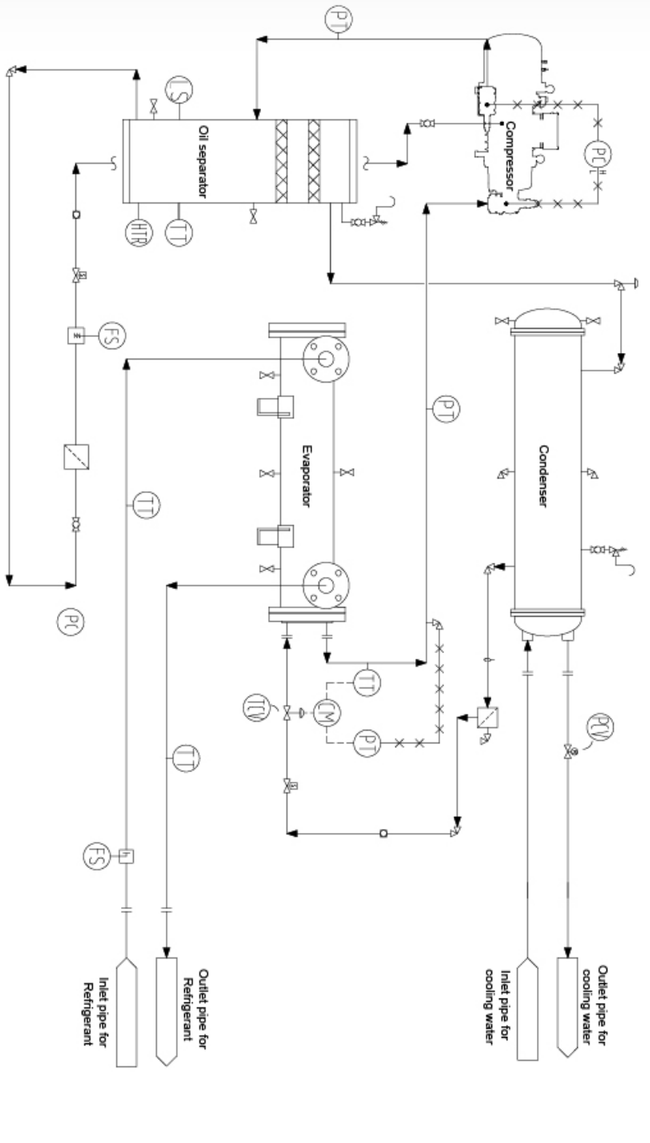
2. The inlet and outlet of units are connected by flanges. Details should be given in the order if other connections are required.

3. Due to technology improvement, the parameters, overall dimension and weight of the units may differs, and the actual design shall prevail.

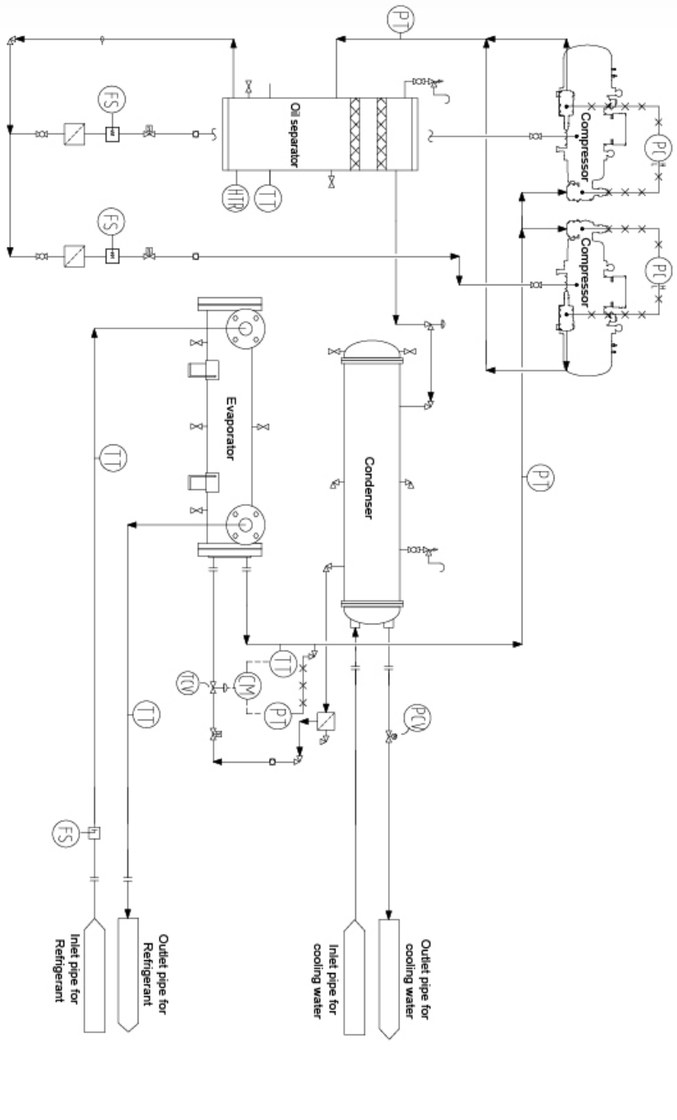
4. The units mentioned above are the standard ones,customer specific designs can be wade(basod on requirement).



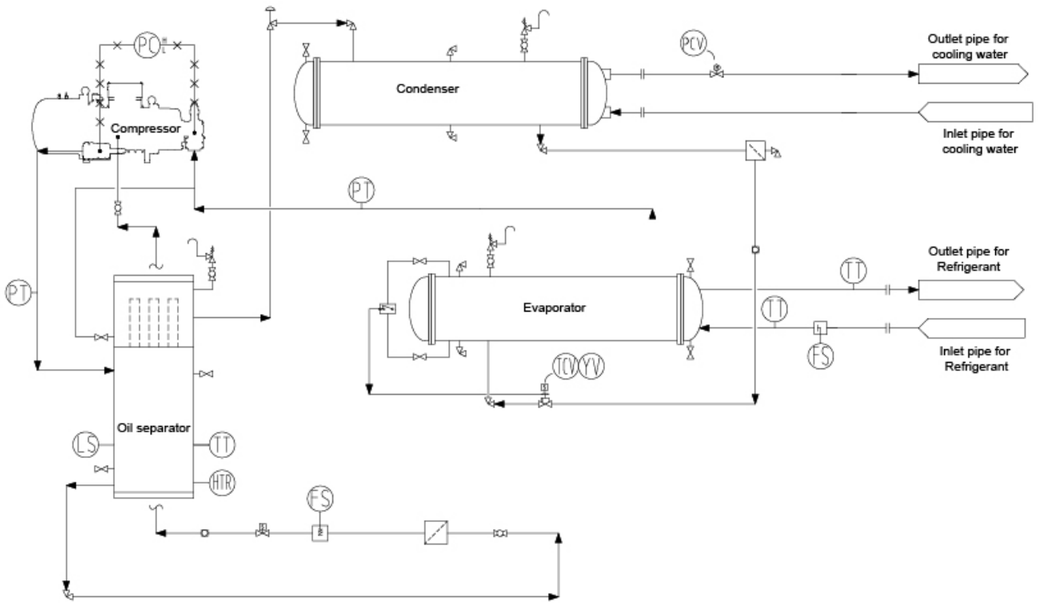
## Drawing Of System Of Medium-high-temperature Water Cooled Dry-type Brine Units (Single Head)



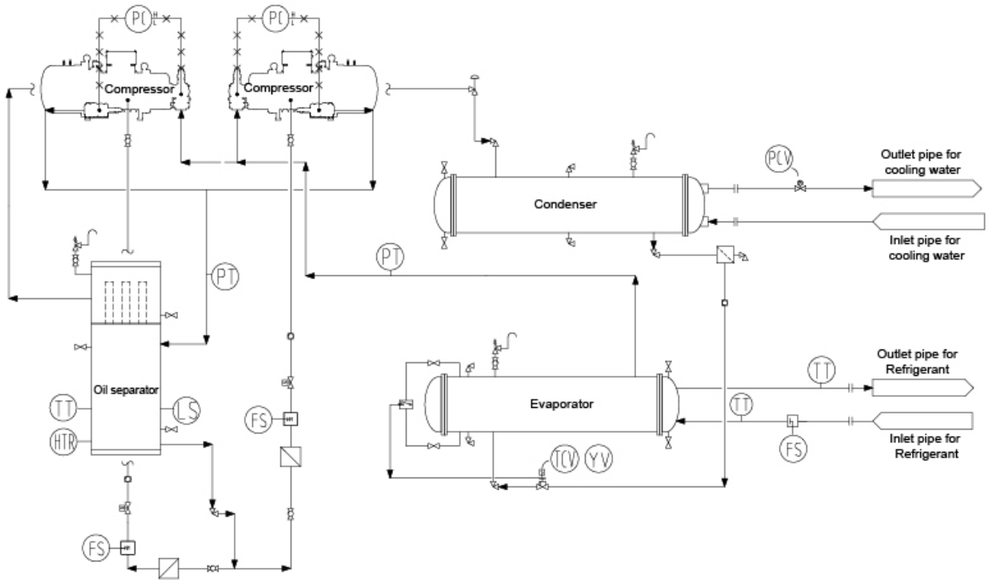

## Drawing of System of Medium-high-temperature Water Cooled Dry-type Brine Units (Double Heads)



## Drawing of System, High-temperature Water Cooled Flooded Brine Units (Single Head)



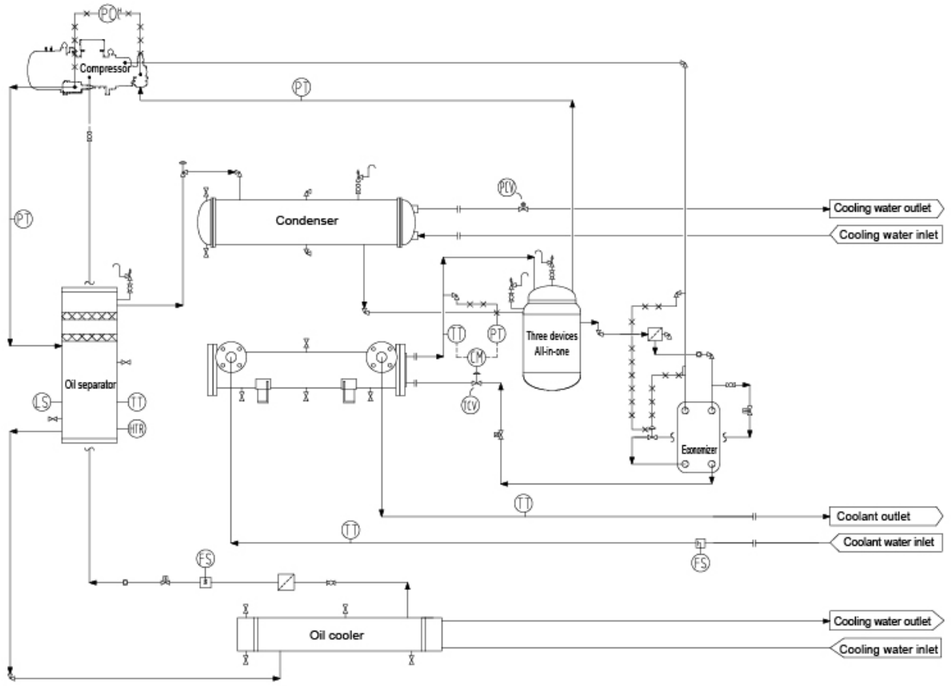

## Drawing of System, High-temperature Water Cooled Flooded Brine Units (Double Heads)



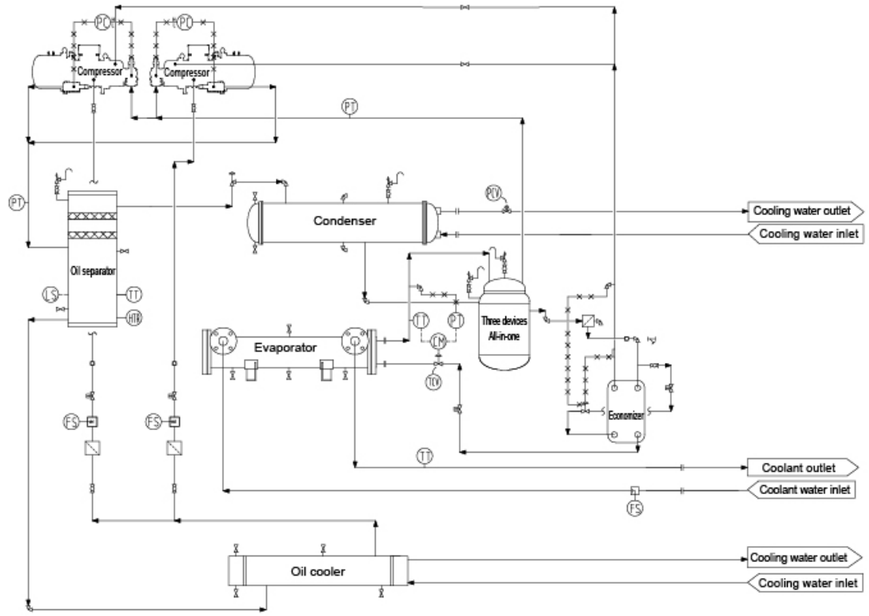





## Low temperature water-cooled dry brine unit system diagram (single head)




## Low temperature water-cooled dry brine unit system diagram (double head)



## Unit application field

Water 5˚C

Aquatic products -40˚C

Textile -7˚C

Chemical -40˚C

Snowmaking -15˚C

Scientific research -40˚C

Pharmaceutical -25˚C

Defense -45˚C