

CW Series

Open Type Screw Brine Units

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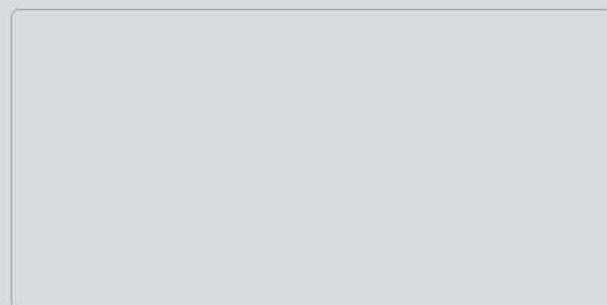
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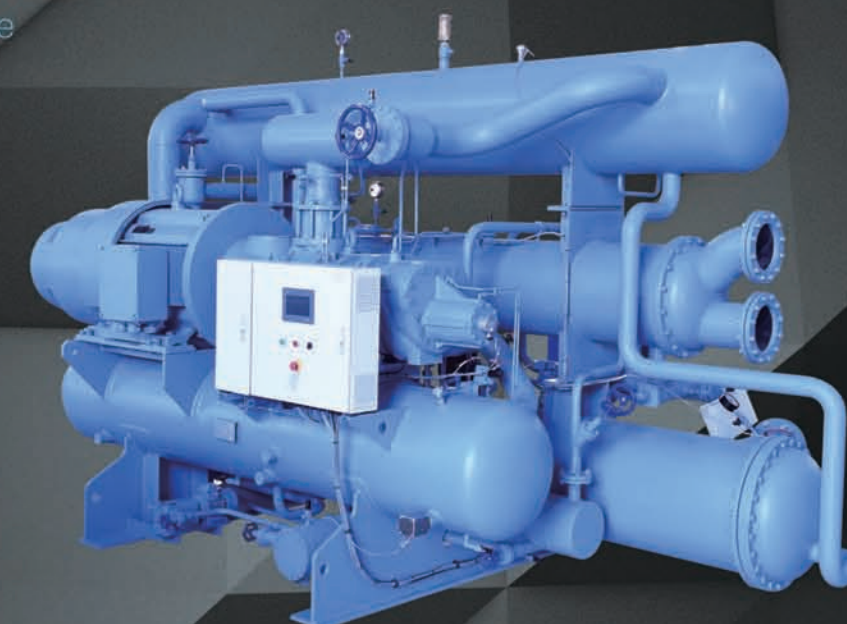
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SRM Sweden

The inventor and leader of screw compressor
100-year legacy of technical quality & energy efficiency

Secondary refrigerant system solution
for multiple working conditions

Unified compressor and compressor
unit guarantee and best choice
of industrial refrigeration

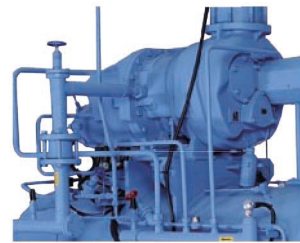


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CW series open type screw brine units

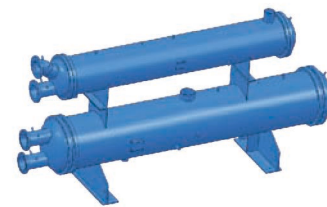
Fully automatic control, excellent energy efficiency performance, reliable and safe design, wide temperature range and highly integrated design.



Innovative oil injection system



Intelligent control panel



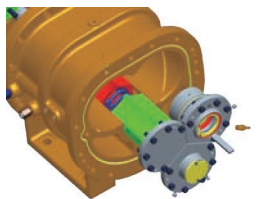
Efficient heat exchanger



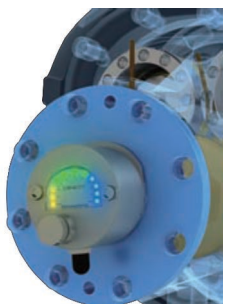
High quality forged steel rotor "i" profile with optimal 5+7 tooth mesh



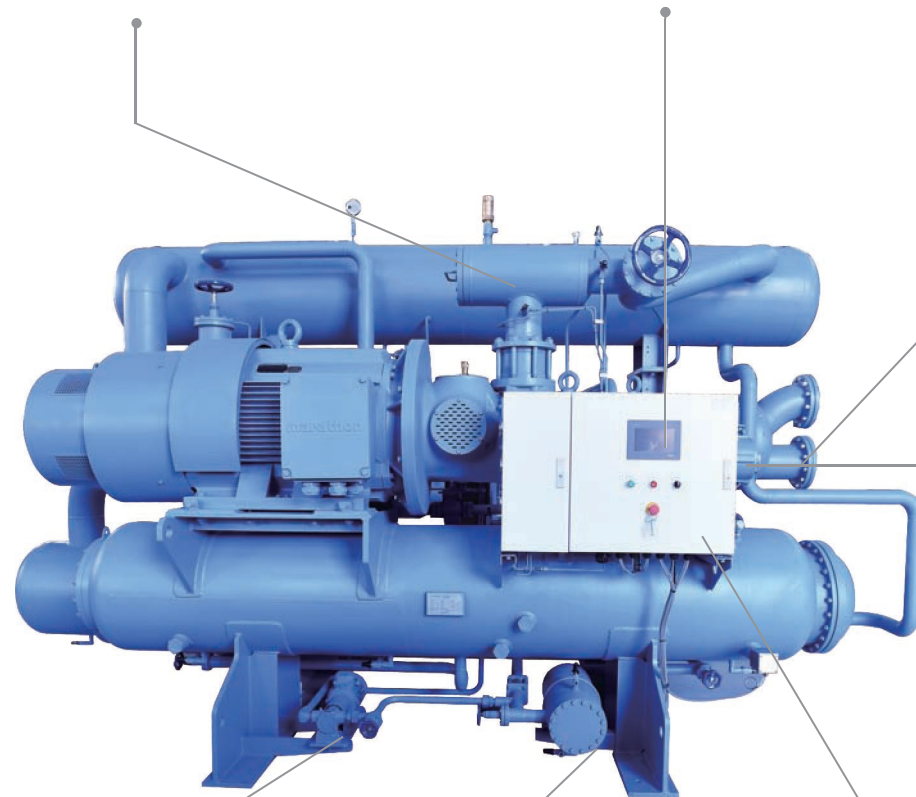
High strength ductile iron machine body



Variable Vi control



10%~100% step-less capacity control



Efficient refrigeration compressor

High precision, high wear resistance roller bearing

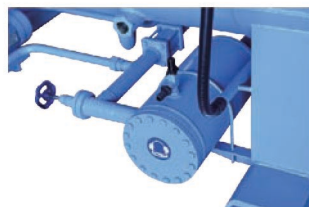
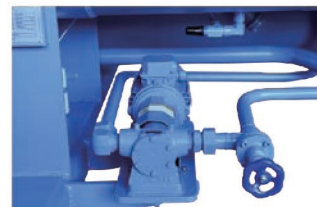
Super wear-resistant shaft seal



Pre-lubrication oil pump

Large capacity oil filter

Intelligent control center



Features

Advanced intelligent control center

- User-friendly interface, startup with the press of a button, easy operation and intelligent control;
- Real-time monitoring, the touch screen can indicate real-time system pressure, load capacity, running time, operation mode and running status. Historical data will be recorded and saved ;
- The center is equipped with a preventive safety device system which allows unattended operation to be safe and reliable;
- Automatic energy regulation allows the unit to operate effectively under different conditions;
- Automatic control over secondary coolants, to provide customers with required temperature range;
- Automatic management of oil temperature limits the oil temperature in a certain range, ensuring the efficient and stable operation of the unit;
- Automatic control of pressure ensuring the exhaust pressure, intake pressure, etc. are within the setting range;
- With vector frequency conversion control, the unit is capable of adjusting the rotational speed according to the conditions and properly distribute motor rotational torque, allowing energy-saving efficient operation and low cost;
- Remote operation, local operation and other operation modes are available for the system to turn on and turn off the equipment, it can also be linked to the monitoring center by reserved bus protocol in real time.

Excellent performance in energy efficiency

- The package is equipped with international leading SRMTEC open screw compressor. Use “i” patent screw rotor profile, efficient and energy-saving;
- Highly sensitive capacity control system with 10%–100% step-less capacity control and VI control allows package operating independently to allow the unit operate at high energy efficiency in different working conditions.
- Use small oil pump for pre-lubrication first, and then use differential pressure to supply oil, saving energy.
- Absorb sensible heat of high pressure liquid cooled in economizer through injecting gas into the middle of compression to give larger subcooling degree to the high pressure liquid from condenser. This method improves system COP.
- Advanced energy-saving technology allows package to have quite high energy efficiency and excellent partial load performance.

Safe and reliable design

- High standard safety design, such as high pressure resistance compressor design, high standard pressure vessel design, safety valve design and preventive safety protection design;
- SRMTEC compressors fully conform to European industrial product standard and GB/T19410 design standard, ensuring stable and reliable running for all day long, with maximum designed pressure up to 6.3 MPa.

Wide applicable temperature range

CW series open type screw brine units, featuring wide applicable temperature range:

High temperature application: $-10^{\circ}\text{C} < \text{outlet brine water temperature} \leq 3^{\circ}\text{C}$;

Medium temperature application: $-25^{\circ}\text{C} < \text{outlet brine water temperature} \leq -10^{\circ}\text{C}$;

Low temperature application: $-35^{\circ}\text{C} < \text{outlet brine water temperature} \leq -25^{\circ}\text{C}$.

Temperature is subject to special design required by customers.

Highly integrated design

The optimal structural design, high integration, small occupation, convenient transportation and installation, short engineering installation period.

Efficient oil separation system

Adopt 4-stage oil separation system. Oil separation by collision, gravity, packing, efficient molecular sieve increase oil separation efficiency to 3–5 ppm, effectively reducing lubrication oil enter refrigeration system and improving system running efficiency.

Efficient heat exchanger

- Optimized heat exchange design, which ensures efficient heat exchange and improves the efficiency of unit;
- High scaling factor design, which allows for long-period running without cleaning.

Fine and removable filter

To ensure the cleanness of system, the package is equipped with precision large capacity oil filter, suction filter to stop foreign matters which might occur during installation and keep package running efficiently and stably. Filters are easy to use and can be removed for clean.

Anti-reverse flow design

In order to prevent the reverse flow during machine shut down, The unit is equipped with check valve at the suction end.

Stable product quality

- Swedish hundred years’ technology of SRM has been proved by global applications;
- Full performance test before delivery ensures product stability.

Control center

The system adopts international famous brand PLC as control core, equipped with 64 k true color touch screen, the whole operation process can be controlled, historical data can be saved.

Easy Operation

Friendly interactive interface, multiple languages to choose from. One-button operation mode simplifies the boot process.

Dynamic tracking

Real-time monitoring of the unit, touch panel capable of displaying system pressure, energy regulation load position, run time, operation mode, and operating condition in real time.

Unit automatically records all fault messages, the fault messages include the detailed description of the abnormal situation and the corresponding solution, makes it convenient for maintenance staff to do rapid diagnosis and troubleshooting.

Safety protection

Equipped with preventive safety protection system, unattended operation is also safe..

Hierarchical password access

Provide the operator with hierarchical security access passwords; in case non-professionals input incorrect parameters. There are 3 levels of access, and each level has its own password.

Inverter control

Frequency conversion control can be used. It can properly distribute motor rotational torque, and enhance the unit efficiency.

Various communication modes

The system adopts remote/local control mode to start or stop; it can also be linked to the monitoring center by reserved bus protocol in real time.

Compressor

Rotor

- SRM ” i” patented screw rotor profile, the optimal 5+7 tooth mesh combination, high efficiency, low vibration, running stably;
- Use high quality forged steel material, high wear resistance, high strength, strong liquid impact resistance, applicable to all kinds of refrigerants;
- Big shaft dimension, large torque.

Housing

- Use ductile cast iron material for high strength housing design, working pressure can be up to 2.8MPa;
- Can change the economizer port according to real conditions.

Bearing

Precision high wear resistant composition rolling bearings can apply to high density refrigerant load; the design lifetime is 100,000 hours.

Shaft seal

- Innovative shaft seal structure, even stress distribution, stable running, low wear, high sealing, prevent leakage effectively.
- SiC wear-resistant sealing surface, applicable to the rotation speed of 10,000 rpm.

VI control

- VI control can help achieve the optimal pressure ratio, high efficiency and energy-saving.
- Compressor is equipped with manual VI control function, which is independent from capacity control to ensure efficient running under different working conditions. The automatic VI control also can be selected to realize the switch between different working conditions.

Capacity control

- 10%–100% step-less capacity control and intelligent controller with accurate positioning;
- Capacity control system is highly sensitive, the load changes can be achieved in 30 s.
- When without electricity, slide valve design can realize the unloading control
- World unique explosion-proof device for capality regulation cylinder.

Multi-points oil injection cooling

Multi-points oil injection cooling can ensure efficient and stable running of compressor.

Sealing for whole package

- Adopt high quality O-ring, super sealing, safe with no leakage;
- Highly precise alignment, the compressor can run smoothly.

Motor

- Open type synchronous motor is used. The motor design is safe and reliable, with high efficiency, low vibration and low noise;
- The unit is equipped with 380V motor, 6 KV, 10 KV motors or other special electrical motors are optional.
- For start-up methods, it can select star-delta start-up, soft start-up or variable frequency start-up;
- Motor installation type can be B3 or B35;
- Customers can select motors of different IP grades or explosion-proof motors according to actual working environment.

Adapter

Adaptors are provided to integrate the compressor and motor, achieving good center alignment and more stable operation of compressor and motor.

Heat Exchanger

Optimized heat exchange design, which greatly improves the efficiency of heat exchange and ensures the efficient running of unit. Condenser—Evaporative, water cooled, air cooled and other types of condensers can be selected based on the customers’ requirements to meet the demands in different regions.

Evaporator—Dry, flooded, thermosyphon and other types of heat exchangers can be selected according to the different physical properties of secondary coolants, to ensure efficient running of the unit.

Economizer—unit is equipped with economizer under low-temperature working condition, which increases the liquid subcooling before it goes through the throttling valve before the evaporator, thus greatly increasing the Refrigeration capacity and reframe ratio coefficient of the unit.

Others

Refrigerant

Suitable for R507A, R22, R717, etc.

Accessories

All the parts in the system are produced by well-known manufacturers and of high reliability and quality assurance.

Design standard

The pressure vessel is designed as per ASME,PED,AS1210 Many other code.

Variable-frequency motor

Variable-frequency motor can be selected.

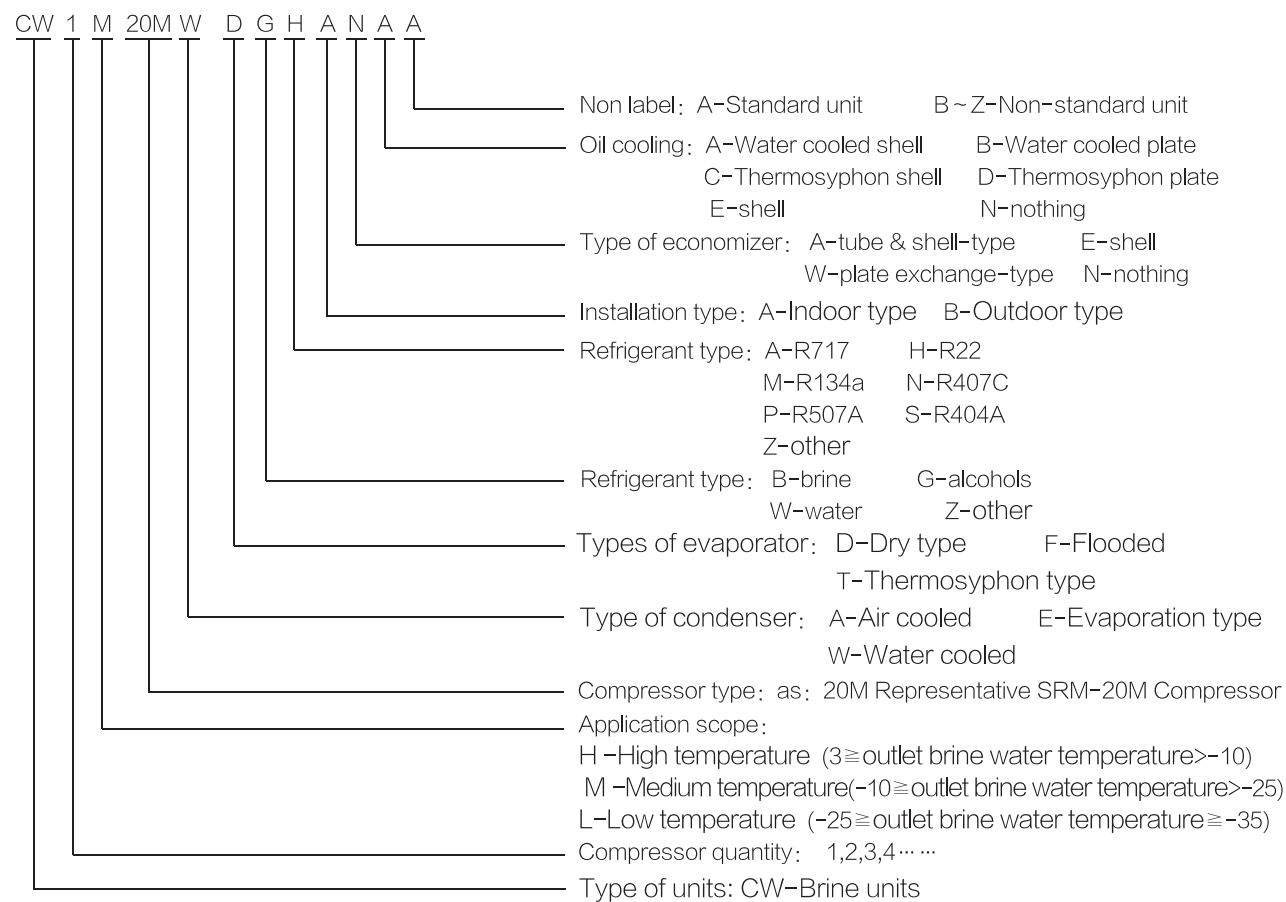
Explosion protection design

The unit can be designed with explosion protection according to customers’ requirements.

- An InHale non-return valve is configured to prevent the backflow during shut-down so as to protect the compressor;
- Function of high-low pressure protection can protect the compressor and system to run in severe working conditions;
- Function of water flow protection can prevent the units from running in the case of lack of water to ensure the system in safety;
- Function of water temperature protection can prevent heat exchangers from being damaged by freezing;
- With oil level protection function, compressors can be prevented from being damaged by lack of oil;
- Safety valves are configured to prevent the system pressure from rising too high;
- High and low pressure side can be automatically isolated during sudden power failure.

- TSGR004-2009 Fixed Pressure Vessels Safety and Technical Supervision
- GB/T 18430.1-2007 Water Chilling (Heat Pump) Units Using the Vapor Compression Cycle—Water Chilling (Heat Pump) Units for Industrial & Commercial and Similar Usage
- GB19577-2004 Energy Efficiency Limit and Grade of Water Chilling Units
- GB/T10870-2014 Performance Testing Methods for Water Chilling (Heat Pump) Units Using the Vapor Cycle
- GB25131-2010 Safety Requirements Cold Water Chiller (Heat Pump) Units Using the Vapor Cycle
- GB5226.1-2008 Safety of Machinery –Electrical Equipment of Machines –Part 1: General Requirements
- JB/T4330-1999 Determination of Noise Emitted by Refrigeration and Air Conditioning Equipments

Entering temperature of cooling water : +15°C~+32°C



Models		CW1H12LWDG	HANCA	CW1H16SWDGH	HANCA	CW1H16MWDG	HANCA	CW1H16LWDG	HANCA	CW1H12LVD	BHANCA	CW1H16SWD	BHANCA	CW1H16MWD	BHANCA	CW1H16LWD	BHANCA
Nominal Refrigeration capacity in working conditions	kW	201.3		246.7		420.5		505.1		201.3		246.7		420.5		505.1	
	kcal/h	173118		212162		361630		434386		173118		212162		361630		434386	
Compressor	Model	SRM-12L		SRM-16S		SRM-16M		SRM-16L		SRM-12L		SRM-16S		SRM-16M		SRM-16L	
	Theoretical displacement m³/h	265		435		544		652		265		435		544		652	
Capacity control		Stepless adjustment: 10 –100%															
Start method		Y/Δ															
Main motor	Power kW	55		90		110		132		55		90		110		132	
	Power supply	380V/50Hz/3P															
Oil pump motor	Power kW	0.75															
	Power supply	380V/50Hz/3P															
Type		Shell-and-tube dry-type evaporator															
Evaporator	Evaporating temperature °C	-2															
	Inlet and outlet water temperature °C	8/3															
	Secondary coolant	Ethanol															
	Water flow m³/h	36.1		62.2		75.4		90.6		37.8		65.0		78.9		94.8	
	Water inlet and outlet pipes mm	89		108		133		133		89		108		133		133	
	Shell-and-tube water cooled condenser 38																
Type		30/35															
Condenser	Condensing temperature °C																
	Inlet and outlet water temperature °C																
Overall dimension	Water flow m³/h	34.9		60.0		72.8		87.5		34.9		60.0		72.8		87.5	
	Water inlet and outlet pipes mm	89		108		133		133		89		108		133		133	
	Length (L) mm	3000		3500		3500		3800		3000		3500		3500		3800	
	Width (W) mm	2000		2200		2500		2600		2000		2200		2500		2600	
Unit weight	Height (H) mm	2300		2500		2600		2700		2300		2500		2600		2700	
	Net weight kg	4500		5500		6000		6500		4500		5500		6000		6500	
	Operation weight kg	5500		6600		7200		7800		5500		6600		7200		7800	

Notes: 1. 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. If technical parameters of R717 unit are required, please contact with our company;

5. The units mentioned above are the standard ones which can be customized based on user’ s requirements.

High-temperature water cooled dry-type brine units (R507A)

Models		CW1H12LWDGPANCA	CW1H16SVDGPANCA	CW1H16MWDGPANCA	CW1H16LWDGPANCA	CW1H12LWDBPANCA	CW1H16SWDBPANCA	CW1H16MWDBPANCA	CW1H16LWDBPANCA
Normal Refrigeration capacity in working conditors	kW	196.1	334.3	418.9	502.7	196.1	334.3	418.9	502.7
	kcal/h	168646	287498	360254	432322	168646	287498	360254	432322
Compressor	Model	SRM-12L	SRM-16S	SRM-16M	SRM-16L	SRM-12L	SRM-16S	SRM-16M	SRM-16L
	Theoretical displacement m³/h	265	435	544	652	265	435	544	652
	Capacity control	Stepless adjustment: 10 ~100%							
Main motor	Start method	Y/Δ							
	Power kW	75	110	132	160	75	110	132	160
Oil pump motor	Power supply	380V/50Hz/3P							
	Power kW	0.75							
Evaporator	Power supply	380V/50Hz/3P							
	Type	Shell-and-tube dry-type evaporator							
Condenser	Evaporating temperature °C	-2							
	Inlet and outlet water temperature °C	8/3							
Secondary coolant	Ethanedidol				Calcium chloride				
	Water flow m³/h	35.2	60.0	75.1	90.2	36.8	62.7	78.6	94.3
Overall dimension	Water inlet and outlet pipes mm	89	108	133	133	89	108	133	133
	Type	Shell-and-tube water cooled condenser							
Unit weight	Condensing temperature °C	38							
	Inlet and outlet water temperature °C	30/35							
Water flow	Water flow m³/h	34.0	57.9	72.5	87.0	34.0	57.9	72.5	87.0
	Water inlet and outlet pipes mm	89	108	133	133	89	108	133	133
Length (L)	mm	3000	3500	3500	3800	3000	3500	3500	3800
	Width (W) mm	2000	2200	2500	2600	2000	2200	2500	2600
Height (H) mm	mm	2300	2500	2600	2700	2300	2500	2600	2700
	Net weight kg	4500	5500	6000	6500	4500	5500	6000	6500
Operation weight kg	kg	5500	6600	7200	7800	5500	6600	7200	7800

Notes: 1. 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. If technical parameters of R717 unit are required, please contact with our company;

5. The units mentioned above are the standard ones which can be customized based on user’ s requirements.

High-temperature water cooled dry-type brine units (R134a)

Models		CW1H12LWDGMANCA	CW1H16SVDGMANCA	CW1H16MWDGMANCA	CW1H16LWDGMANCA	CW1H12LWDBMANCA	CW1H16SWDBMANCA	CW1H16MWDBMANCA	CW1H16LWDBMANCA
Normal Refrigeration capacity in working conditors	kW	117.0	201.6	251.3	303.6	117.0	201.6	251.3	303.6
	kcal/h	100620	173376	216118	261096	100620	173376	216118	261096
Compressor	Model	SRM-12L	SRM-16S	SRM-16M	SRM-16L	SRM-12L	SRM-16S	SRM-16M	SRM-16L
	Theoretical displacement m³/h	265	435	544	652	265	435	544	652
	Capacity control	Stepless adjustment: 10 ~100%							
Main motor	Start method	Y/Δ							
	Power kW	37	75	75	90	37	75	75	90
Oil pump motor	Power supply	380V/50Hz/3P							
	Power kW	0.75							
Evaporator	Power supply	380V/50Hz/3P							
	Type	Shell-and-tube dry-type evaporator							
Condenser	Evaporating temperature °C	-2							
	Inlet and outlet water temperature °C	8/3							
Secondary coolant	Ethanedidol				Calcium chloride				
	Water flow m³/h	21.0	36.2	45.1	54.5	21.9	37.8	47.1	57.0
Overall dimension	Water inlet and outlet pipes mm	76	89	108	108	76	89	108	108
	Type	Shell-and-tube water cooled condenser							
Unit weight	Condensing temperature °C	38							
	Inlet and outlet water temperature °C	30/35							
Water flow	Water flow m³/h	20.2	34.9	43.5	52.6	20.2	34.9	43.5	52.6
	Water inlet and outlet pipes mm	76	89	108	108	76	89	108	108
Length (L) mm	mm	3000	3500	3500	3800	3000	3500	3500	3800
	Width (W) mm	2000	2200	2500	2600	2000	2200	2500	2600
Height (H) mm	mm	2300	2500	2600	2700	2300	2500	2600	2700
	Net weight kg	4000	5000	5500	6000	4000	5000	5500	6000
Operation weight kg	kg	5000	6100	6700	7300	5000	6100	6700	7300

Notes: 1. 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. If technical parameters of R717 unit are required, please contact with our company;

5. The units mentioned above are the standard ones which can be customized based on user’ s requirements.

High-temperature water cooled flooded brine units (R22)

Models		CW1H20SWFGHANCA	CW1H20MWFGHANCA	CW1H20LWFGHANCA	CW1H26SWFGHANCA	CW1H26MWFGHANCA	CW1H26LWFGHANCA
Normal Refrigeration capacity in working conditions	kW	749.5	968.1	1111.2	1424.2	1791.1	2154.7
	kcal/h	644570	832566	956632	1224812	1540346	1853042
Compressor	Model	SRM-20S	SRM-20M	SRM-20L	SRM-26S	SRM-26M	SRM-26L
	Theoretical displacement m³/h	850	1100	1270	1659	2075	2478
	Capacity control	Stepless adjustment: 10 ~100%					
Main motor	Start method	Y/Δ					
	Power kW	200	250	250	355	450	500
Oil pump motor	Power supply	380V/50Hz/3P					
	Power kW	0.75					
Power supply	Power supply	380V/50Hz/3P					
	Type	Shell-and-tube flooded evaporator					
Evaporator	Evaporating temperature °C	0					
	Inlet and outlet water temperature °C	8/3					
	Secondary coolant	Ethanedidol					
	Water flow m³/h	134.4	173.7	199.3	255.5	321.3	386.5
	Water inlet and outlet pipes mm	159	219	219	219	273	273
Condenser	Type	Shell-and-tube water cooled condenser					
	Condensing temperature °C	38					
	Inlet and outlet water temperature °C	30/35					
	Water flow m³/h	129.8	167.6	192.4	246.6	310.1	373.1
	Water inlet and outlet pipes mm	159	219	219	219	273	273
Overall dimension	Length (L) mm	5000	5000	5000	5000	5200	5200
	Width (W) mm	2700	2800	3000	3000	3200	3200
	Height (H) mm	2800	3200	3600	3800	3800	3800
	Net weight kg	8000	9000	10000	11000	13000	14000
Unit weight	Operation weight kg	10000	11500	12500	14000	17500	18000

Notes: 1. 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. If technical parameters of R717 unit are required, please contact with our company;

5. The units mentioned above are the standard ones which can be customized based on user’ s requirements.

High-temperature water cooled flooded brine units (R507A)

Models		CW1H20SWFGPANCA	CW1H20MWFGPANCA	CW1H20LWFGPANCA	CW1H26SWFGPANCA	CW1H26MWFGPANCA	CW1H26LWFGPANCA
Normal Refrigeration capacity in working conditions	kW	716.8	933.0	1089.3	1428.0	1793.0	2150.6
	kcal/h	616448	802380	936798	1228080	1541980	1849516
Compressor	Model	SRM-20S	SRM-20M	SRM-20L	SRM- 26S	SRM-26M	SRM-26L
	Theoretical displacement m³/h	850	1100	1270	1659	2075	2478
	Capacity control	Stepless adjustment: 10 ~100%					
Main motor	Start method	Y/Δ					
	Power kW	250	280	315	450	560	630
Power supply	Power supply	380V/50Hz/3P					
	Power kW	0.75					
Power supply	Power supply	380V/50Hz/3P					
	Type	Shell-and-tube flooded evaporator					
Evaporator	Evaporating temperature °C	0					
	Inlet and outlet water temperature °C	8/3					
	Secondary coolant	Ethanedidol					
	Water flow m³/h	128.6	167.4	195.4	256.1	321.6	385.8
	Water inlet and outlet pipes mm	159	219	219	219	273	273
Condenser	Type	Shell-and-tube water cooled condenser					
	Condensing temperature °C	38					
	Inlet and outlet water temperature °C	30/35					
	Water flow m³/h	124.1	161.5	188.6	247.2	310.4	372.3
	Water inlet and outlet pipes mm	159	219	219	219	273	273
Overall dimension	Length (L) mm	5000	5000	5000	5000	5200	5200
	Width (W) mm	2700	2800	3000	3000	3200	3200
	Height (H) mm	2800	3200	3600	3800	3800	3800
	Net weight kg	8000	9000	10000	11000	13000	14000
Unit weight	Operation weight kg	10000	11500	12500	14000	17500	18000

Notes: 1. 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. If technical parameters of R717 unit are required, please contact with our company;

5. The units mentioned above are the standard ones which can be customized based on user’ s requirements.

High-temperature water cooled flooded brine units (R134a)

Nominal Refrigeration capacity in working conditions	Models		CW1H20SWFGMANCA		CW1H20MMWFGMANCA		CW1H20LVFGMANCA		CW1H26SWFGMANCA		CW1H26MMWFGMANCA		CW1H26LVFGMANCA	
	kW		437.0	592.5	689.4	870.5	1088.8	1313.6						
Compressor		kcal/h	375820	509550	592884	748630	936368	1129696						
	Model		SRM-20S	SRM-20M	SRM-20L	SRM-26S	SRM-26M	SRM-26L						
	Theoretical displacement	m³/h	850	1100	1270	1659	2075	2478						
Capacity control			Stepless adjustment: 10 ~100%											
	Start method		Y/Δ											
Main motor	Power	kW	132	160	200	250	280	355						
	Power supply		380V/50Hz/3P											
Oil pump motor	Power	kW	0.75		380V/50Hz/3P		1.5							
	Power supply		380V/50Hz/3P											
Evaporator	Type		Shell-and-tube flooded evaporator											
	Evaporating temperature	℃	0											
	Inlet and outlet water temperature	℃	8/3											
	Secondary coolant		Ethanedid											
	Water flow	m³/h	78.4	104.3	123.7	156.1	195.3	235.6						
	Water inlet and outlet pipes	mm	133	159	159	159	219	219						
Condenser	Type		Shell-and-tube water cooled condenser											
	Condensing temperature	℃	38											
	Inlet and outlet water temperature	℃	30/35											
	Water flow	m³/h	75.7	102.6	119.4	150.7	188.5	227.4						
Overall dimension	Water inlet and outlet pipes	mm	133	159	159	159	219	219						
	Length (L)	mm	5000	5000	5000	5000	5200	5200						
	Width (W)	mm	2700	2800	3000	3000	3200	3200						
	Height (H)	mm	2800	3200	3600	3800	3800	3800						
Unit weight	Net weight	kg	6500	7500	8500	9500	11500	12500						
	Operation weight	kg	8500	10000	11000	12500	15000	16500						

- Notes: 1. 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. If technical parameters of R717 unit are required, please contact with our company;
5. The units mentioned above are the standard ones which can be customized based on user’ s requirements.

Medium-Temperature Water Cooled Dry-Type Brine Units (R22)

Models		CW1M12LWDGHANCA		CW1M16SVDGHNCA		CW1M16MWDGHANCA		CW1M16LWDGHANCA		CW1M12LWDGHAACA		CW1M16SVDGHAACA		CW1M16LWDGHAACA	
Nominal Refrigeration capacity in working conditions	kW	121.6	210.2	255.0	306.8	143.5	247.5	300.9	362.5						
	kcal/h	104576	180772	219300	263848	123410	212850	258774	311750						
Compressor	Model	SRM-12L	SRM-16S	SRM-16M	SRM-16L	SRM-12L	SRM-16S	SRM-16M	SRM-16L						
	Theoretical displacement m³/h	265	435	544	652	265	435	544	652						
	Capacity control	Stepless adjustment: 10 ~100%													
Main motor	Start method	Y/Δ													
	Power kW	55	90	110	132	75	110	132	160						
	Power supply	380V/50Hz/3P													
Oil pump motor	Power kW	0.75													
	Power supply	380V/50Hz/3P													
	Type	Shell-and-tube dry-type evaporator													
Evaporator	Evaporating temperature °C	-15													
	Inlet and outlet water temperature °C	-5/-10													
	Secondary coolant	Ethanol/diol													
	Water flow m³/h	23.5	40.7	49.3	59.4	27.8	47.9	58.2	70.1						
	Water inlet and outlet pipes mm	76	89	108	108	89	108	108	133						
Condenser	Type	Shell-and-tube water cooled condenser													
	Condensing temperature °C	38													
	Inlet and outlet water temperature °C	30/35													
	Water flow m³/h	29.0	49.9	60.4	72.4	34.1	58.5	71.0	85.1						
	Water inlet and outlet pipes mm	89	108	108	133	89	108	133	133						
Overall dimension	Length (L) mm	2900	3400	3400	3600	2900	3400	3400	3600						
	Width (W) mm	2000	2100	2200	2200	2000	2100	2200	2200						
	Height (H) mm	2000	2100	2200	2300	2000	2100	2200	2300						
Unit weight	Net weight kg	4500	5500	6000	6500	4500	5500	6000	6500						
	Operation weight kg	5400	6500	7100	7700	5400	6500	7100	7700						

- Notes: 1. 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. If technical parameters of R717 unit are required, please contact with our company;
5. The units mentioned above are the standard ones which can be customized based on user’ s requirements.

Models		CW1M12LWDBHANCA	CW1M16SWDBHANCA	CW1M16MMWDBHANCA	CW1M16LWDBHANCA	CW1M12LWDBHANCA	CW1M16SWDBHAACA	CW1M16MMWDBHAACA	CW1M16LWDBHAACA	
Nominal Refrigeration capacity in working conditions	kW	121.6	210.2	255.0	306.8	143.5	247.5	300.9	362.5	
	kcal/h	104576	180772	219300	263848	123410	212850	258774	311750	
Compressor	Model	SRM-12L	SRM-16S	SRM-16M	SRM-16L	SRM-12L	SRM-16S	SRM-16M	SRM-16L	
	Theoretical displacement	265	435	544	652	265	435	544	652	
	Capacity control	Stepless adjustment: 10～100%								
Main motor	Start method	Y/Δ								
	Power	kW	55	90	110	132	75	110	132	160
	Power supply	380V/50Hz/3P								
Oil pump motor	Power	kW	0.75							
	Power supply	380V/50Hz/3P								
	Type	Shell-and-tube dry-type evaporator								
Evaporator	Evaporating temperature	℃	-15							
	Inlet and outlet water temperature	℃	-5/-10							
	Secondary coolant	Calcium chloride								
	Water flow	m³/h	24.4	42.2	51.2	61.6	28.8	49.7	60.4	72.6
	Water inlet and outlet pipes	mm	76	89	108	108	89	108	108	133
Condenser	Type	Shell-and-tube water cooled condenser								
	Condensing temperature	℃	38							
	Inlet and outlet water temperature	℃	30/35							
	Water flow	m³/h	29.0	49.9	60.4	72.4	34.1	58.5	71.0	85.1
	Water inlet and outlet pipes	mm	89	108	108	133	89	108	133	133
Overall dimension	Length (L)	mm	2900	3400	3400	3600	2900	3400	3400	3600
	Width (W)	mm	2000	2100	2200	2200	2000	2100	2200	2200
	Height (H)	mm	2000	2100	2200	2300	2000	2100	2200	2300
Unit weight	Net weight	kg	4500	5500	6000	6500	4500	5500	6000	6500
	Operation weight	kg	5400	6500	7100	7700	5400	6500	7100	7700

- Notes: 1. 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. If technical parameters of R717 unit are required, please contact with our company;
5. The units mentioned above are the standard ones which can be customized based on user’ s requirements.

Medium-Temperature Water Cooled Dry-Type Brine Units (R507A)

Models		CW1M12LWDGPANCA														CW1M16SWDGPANCA														CW1M16LWDGPANCA														CW1M12LWDGPAACA														CW1M16SWDGPAAACA														CW1M16LWDGPAACA														CW1M16LWDGPAACA																											
Nominal Refrigeration capacity in working conditions	kW	114.0														195.5														245.4														294.7														139.1														238.5														297.6														357.0													
	kcal/h	98040														168130														211044														253442														119626														205110														255936														307020													
Compressor	Model	SRM-12L														SRM-16S														SRM-16M														SRM-16L														SRM-12L														SRM-16S														SRM-16M														SRM-16L													
	Theoretical displacement	265														435														544														652														265														435														544														652													
	Capacity control	Stepless adjustment: 10 ~100%																																																																																																															
Main motor	Start method	Y/Δ																																																																																																															
	Power	kW														110														132														160														75														132														160														200													
	Power supply	380V/50Hz/3P																																																																																																															
Oil pump motor	Power	kW														0.75																																																																																																	
	Power supply	380V/50Hz/3P																																																																																																															
	Type	Shell-and-tube dry-type evaporator																																																																																																															
Evaporator	Evaporating temperature	-15																																																																																																															
	Inlet and outlet water temperature	-5/-10																																																																																																															
	Secondary coolant	Ethanediol																																																																																																															
	Water flow	m³/h														37.9														47.5														57.0														26.9														46.1														57.6														69.1													
	Water inlet and outlet pipes	mm														89														108														108														89														108														108														133													
	Type	Shell-and-tube water cooled condenser																																																																																																															
Condenser	Condensing temperature	38																																																																																																															
	Inlet and outlet water temperature	30/35																																																																																																															
	Water flow	m³/h														50.7														62.7														75.1														35.0														60.0														73.9														88.4													
	Water inlet and outlet pipes	mm														108														108														133														89														108														133														133													
	Length (L)	mm														3400														3400														3600														2900														3400														3400														3600													
	Width (W)	mm														2100														2200														2200														2000														2100														2200														2200													
Overall dimension	Height (H)	mm														2100														2200														2300														2000														2100														2200														2300													
	Net weight	kg														5500														6000														6500														4500														5500														6000														6500													
	Operation weight	kg														6500														7100														7700														5400														6500														7100														7700													

- Notes: 1. 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. If technical parameters of R717 unit are required, please contact with our company;
5. The units mentioned above are the standard ones which can be customized based on user’ s requirements.

Medium-Temperature Water Cooled Dry-Type Brine Units (R507A) · Continued

Models	CW1M12LWDBPANCA		CW1M16SWDBPANCA		CW1M16M/WDBPANCA		CW1M16LWDBPANCA		CW1M12LWDBPAACA		CW1M16SWDBPAACA		CW1M16M/WDBPAACA		CW1M16LWDBPAACA	
	kW		kW		kW		kW		kW		kW		kW		kW	
Normal Refrigeration capacity in working conditions	kcal/h		kcal/h		kcal/h		kcal/h		kcal/h		kcal/h		kcal/h		kcal/h	
	Model		Model		Model		Model		Model		Model		Model		Model	
Compressor	Theoretical displacement	m³/h	Theoretical displacement	m³/h	Theoretical displacement	m³/h	Theoretical displacement	m³/h	Theoretical displacement	m³/h	Theoretical displacement	m³/h	Theoretical displacement	m³/h	Theoretical displacement	m³/h
	Capacity control		Capacity control		Capacity control		Capacity control		Capacity control		Capacity control		Capacity control		Capacity control	
Main motor	Start method		Start method		Start method		Start method		Start method		Start method		Start method		Start method	
	Power	kW	Power	kW	Power	kW	Power	kW	Power	kW	Power	kW	Power	kW	Power	kW
Oil pump motor	Power supply		Power supply		Power supply		Power supply		Power supply		Power supply		Power supply		Power supply	
	Type		Type		Type		Type		Type		Type		Type		Type	
Evaporator	Evaporating temperature	℃	Evaporating temperature	℃	Evaporating temperature	℃	Evaporating temperature	℃	Evaporating temperature	℃	Evaporating temperature	℃	Evaporating temperature	℃	Evaporating temperature	℃
	Inlet and outlet water temperature	℃	Inlet and outlet water temperature	℃	Inlet and outlet water temperature	℃	Inlet and outlet water temperature	℃	Inlet and outlet water temperature	℃	Inlet and outlet water temperature	℃	Inlet and outlet water temperature	℃	Inlet and outlet water temperature	℃
Secondary coolant																
	Water flow	m³/h	Water flow	m³/h	Water flow	m³/h	Water flow	m³/h	Water flow	m³/h	Water flow	m³/h	Water flow	m³/h	Water flow	m³/h
Condenser	Water inlet and outlet pipes	mm	Water inlet and outlet pipes	mm	Water inlet and outlet pipes	mm	Water inlet and outlet pipes	mm	Water inlet and outlet pipes	mm	Water inlet and outlet pipes	mm	Water inlet and outlet pipes	mm	Water inlet and outlet pipes	mm
	Length (L)	mm	Length (L)	mm	Length (L)	mm	Length (L)	mm	Length (L)	mm	Length (L)	mm	Length (L)	mm	Length (L)	mm
Overall dimension	Width (W)	mm	Width (W)	mm	Width (W)	mm	Width (W)	mm	Width (W)	mm	Width (W)	mm	Width (W)	mm	Width (W)	mm
	Height (H)	mm	Height (H)	mm	Height (H)	mm	Height (H)	mm	Height (H)	mm	Height (H)	mm	Height (H)	mm	Height (H)	mm
Unit weight	Net weight	kg	Net weight	kg	Net weight	kg	Net weight	kg	Net weight	kg	Net weight	kg	Net weight	kg	Net weight	kg
	Operation weight	kg	Operation weight	kg	Operation weight	kg	Operation weight	kg	Operation weight	kg	Operation weight	kg	Operation weight	kg	Operation weight	kg

Notes: 1. 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. If technical parameters of R717 unit are required, please contact with our company;
5. The units mentioned above are the standard ones which can be customized based on user’ s requirements.

Medium-Temperature Water Cooled Siphon -Type Brine Units (R22)

Models	CW1M20SWTBHANCA		CW1M20MWTBHANCA		CW1M20LWTBHANCA		CW1M26SWTBHANCA		CW1M26LWTBHANCA		CW1M26MWTBHANCA		CW1M26LWTBHANCA	
	kW		kW		kW		kW		kW		kW		kW	
Normal Refrigeration capacity in working conditions	kcal/h		kcal/h		kcal/h		kcal/h		kcal/h		kcal/h		kcal/h	
	Model		Model		Model		Model		Model		Model		Model	
Compressor	Theoretical displacement	m³/h	Theoretical displacement	m³/h	Theoretical displacement	m³/h	Theoretical displacement	m³/h	Theoretical displacement	m³/h	Theoretical displacement	m³/h	Theoretical displacement	m³/h
	Capacity control		Capacity control		Capacity control		Capacity control		Capacity control		Capacity control		Capacity control	
Main motor	Start method		Start method		Start method		Start method		Start method		Start method		Start method	
	Power	kW	Power	kW	Power	kW	Power	kW	Power	kW	Power	kW	Power	kW
Oil pump motor	Power supply		Power supply		Power supply		Power supply		Power supply		Power supply		Power supply	
	Type		Type		Type		Type		Type		Type		Type	
Evaporator	Evaporating temperature	℃	Evaporating temperature	℃	Evaporating temperature	℃	Evaporating temperature	℃	Evaporating temperature	℃	Evaporating temperature	℃	Evaporating temperature	℃
	Inlet and outlet water temperature	℃	Inlet and outlet water temperature	℃	Inlet and outlet water temperature	℃	Inlet and outlet water temperature	℃	Inlet and outlet water temperature	℃	Inlet and outlet water temperature	℃	Inlet and outlet water temperature	℃
Secondary coolant														
	Water flow	m³/h	Water flow	m³/h	Water flow	m³/h	Water flow	m³/h	Water flow	m³/h	Water flow	m³/h	Water flow	m³/h
Condenser	Water inlet and outlet pipes	mm	Water inlet and outlet pipes	mm	Water inlet and outlet pipes	mm	Water inlet and outlet pipes	mm	Water inlet and outlet pipes	mm	Water inlet and outlet pipes	mm	Water inlet and outlet pipes	mm
	Type		Type		Type		Type		Type		Type		Type	
Overall dimension	Width (W)	mm	Width (W)	mm	Width (W)	mm	Width (W)	mm	Width (W)	mm	Width (W)	mm	Width (W)	mm
	Height (H)	mm	Height (H)	mm	Height (H)	mm	Height (H)	mm	Height (H)	mm	Height (H)	mm	Height (H)	mm
Unit weight	Net weight	kg	Net weight	kg	Net weight	kg	Net weight	kg	Net weight	kg	Net weight	kg	Net weight	kg
	Operation weight	kg	Operation weight	kg	Operation weight	kg	Operation weight	kg	Operation weight	kg	Operation weight	kg	Operation weight	kg

Notes: 1. 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. If technical parameters of R717 unit are required, please contact with our company;
5. The units mentioned above are the standard ones which can be customized based on user’ s requirements.

Models	CW1M20SWTBHAACA		CW1M20MWTBHAACA		CW1M20LWTBHAACA		CW1M26SWTBHAACA		CW1M26MWTBHAACA		CW1M26LWTBHAACA	
	kW		638.4		743.6		951.4		1223.7		1463.5	
	kcal/h		427592		549024		639496		818204		1052382	
Compressor	Model		SRM-20S		SRM-20M		SRM-20L		SRM-26S		SRM-26M	
	Theoretical displacement m³/h		850		1100		1270		1659		2075	
	Capacity control						Stepless adjustment: 10 ~100%					
Main motor	Start method						Y/Δ					
	Power kW		200		250		280		355		450	
	Power supply				380V/50Hz/3P				10kV/50Hz/3P			
Oil pump motor	Power kW				0.75				1.5			
	Power supply						380V/50Hz/3P					
	Type						Thermosyphon-type evaporator					
Evaporator	Evaporating temperature °C						-15					
	Inlet and outlet water temperature °C						-5/-10					
	Secondary coolant						Ethanedidol/Calcium chloride					
Condenser	Water flow m³/h		99.8		128.1		149.2		190.9		245.6	
	Water inlet and outlet pipes mm		133		159		159		219		219	
	Type						Shell-and-tube water cooled condenser					
Overall dimension	Condensing temperature °C						38					
	Inlet and outlet water temperature °C						30/35					
	Water flow m³/h		116.5		148.6		172.4		222.9		283.1	
Unit weight	Water inlet and outlet pipes mm		159		159		219		219		219	
	Length (L) mm		5000		5000		5000		5000		5000	
	Width (W) mm		2400		2500		2600		3400		3500	
Unit weight	Height (H) mm		3200		3300		3400		4000		4100	
	Net weight kg		9500		11000		13000		21000		23000	
	Operation weight kg		11500		13500		15500		24000		26500	

Notes: 1. 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. If technical parameters of R717 unit are required, please contact with our company;

5. The units mentioned above are the standard ones which can be customized based on user’ s requirements.

Medium-Temperature Water Cooled Siphon –Type Brine Units (R507A)

Models	CW1M20SWTBPANCA		CW1M20MWTBPANCA		CW1M20LWTBPANCA		CW1M26SWTBPANCA		CW1M26MWTBPANCA		CW1M26LWTBPANCA	
	kW		389.8		592.2		778.2		977.7		1173.6	
	kcal/h		335228		509292		669252		840822		1009296	
Compressor	Model		SRM-20S		SRM-20M		SRM-20L		SRM-26S		SRM-26M	
	Theoretical displacement m³/h		850		1100		1270		1659		2075	
	Capacity control						Stepless adjustment: 10 ~100%					
Main motor	Start method						Y/Δ					
	Power kW		200		250		315		400		500	
	Power supply				380V/50Hz/3P				10kV/50Hz/3P			
Oil pump motor	Power kW				0.75				1.5			
	Power supply						380V/50Hz/3P					
	Type						Thermosyphon-type evaporator					
Evaporator	Evaporating temperature °C						-15					
	Inlet and outlet water temperature °C						-5/-10					
	Secondary coolant						Ethanedidol/Calcium chloride					
Condenser	Water flow m³/h		78.2		101.9		118.6		156.2		196.2	
	Water inlet and outlet pipes mm		133		159		159		159		219	
	Type						Shell-and-tube water cooled condenser					
Overall dimension	Condensing temperature °C						38					
	Inlet and outlet water temperature °C						30/35					
	Water flow m³/h		100.0		128.9		149.5		196.8		245.0	
Unit weight	Water inlet and outlet pipes mm		133		159		159		219		219	
	Length (L) mm		5000		5000		5000		5000		5000	
	Width (W) mm		2400		2500		2600		3400		3500	
Unit weight	Height (H) mm		3200		3300		3400		4000		4100	
	Net weight kg		9500		11000		13000		21000		23000	
	Operation weight kg		11500		13500		15500		24000		26500	

Notes: 1. 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. If technical parameters of R717 unit are required, please contact with our company;

5. The units mentioned above are the standard ones which can be customized based on user’ s requirements.

Models		CW1M20SWTBPAAACA		CW1M20MW/TBPAAACA		CW1M20LWTBPAAACA		CW1M26SWTBPAAACA		CW1M26MW/TBPAAACA		CW1M26LWTBPAAACA	
Nominal Refrigeration capacity in working conditions	kW	472.9	619.8	721.1	947.8	1189.2	1432.3						
	kcal/h	406694	533028	620146	815108	1022712	1231778						
Compressor	Model	SRM-20S	SRM-20M	SRM-20L	SRM-26S	SRM-26M	SRM-26L						
	Theoretical displacement m³/h	850	1100	1270	1659	2075	2478						
	Capacity control	Stepless adjustment: 10 –100%											
Main motor	Start method	Y/Δ											
	Power kW	200	280	315	450	560	630						
	Power supply	380V/50Hz/3P											
Oil pump motor	Power kW	0.75											
	Power supply	380V/50Hz/3P											
Evaporator	Type	Thermosyphon-type evaporator											
	Evaporating temperature °C	-15											
	Inlet and outlet water temperature °C	-5/-10											
	Secondary coolant	Ethanediol/Calcium chloride											
	Water flow m³/h	94.9	124.4	144.7	190.2	238.7	287.5						
	Water inlet and outlet pipes mm	133	159	159	219	219	273						
	Type	Shell-and-tube water cooled condenser											
	Condensing temperature °C	38											
Condenser	Inlet and outlet water temperature °C	30/35											
	Water flow m³/h	118.0	152.7	176.7	233.5	290.4	348.4						
Overall dimension	Water inlet and outlet pipes mm	159	159	219	219	273	273						
	Length (L) mm	5000	5000	5000	5000	5000	5000						
	Width (W) mm	2400	2500	2600	3400	3500	3600						
	Height (H) mm	3200	3300	3400	4000	4100	4200						
Unit weight	Net weight kg	9500	11000	13000	21000	23000	25000						
	Operation weight kg	11500	13500	15500	24000	26500	28500						

Notes: 1. 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. If technical parameters of R717 unit are required, please contact with our company;

5. The units mentioned above are the standard ones which can be customized based on user’ s requirements.

Low–Temperature Water Cooled Dry–Type Brine Units (R22)

Models	Stepless adjustment: 10 –100%											
	Y/Δ											
Nominal Refrigeration capacity in working condions	kW	81.0	142.2	171.7	207.7	207.7	81.0	142.2	171.7	207.7	207.7	
	kcal/h	69660	122292	147662	178622	178622	69660	122292	147662	178622	178622	
	Model	SRM-12L	SRM-16S	SRM-16M	SRM-16L	SRM-16L	SRM-12L	SRM-16S	SRM-16M	SRM-16L	SRM-16L	
	Theoretical displacement m³/h	265	435	544	652	652	265	435	544	652	652	
Compressor	Capacity control											
	Start method											
Main motor	Power kW	55	90	110	132	132	55	90	110	132	132	
	Power supply	380V/50Hz/3P										
Oil pump motor	Power kW	0.75										
	Power supply	380V/50Hz/3P										
Evaporator	Type	Shell-and-tube dry-type evaporator										
	Evaporating temperature °C	-30										
	Inlet and outlet water temperature °C	-20/-25										
	Secondary coolant	Ethanedliol										Calcium chloride
	Water flow m³/h	16.0	28.5	35.0	42.5	42.5	16.5	28.5	35.0	42.0	42.0	
Condenser	Water inlet and outlet pipes mm	76	89	89	108	108	76	89	89	108	108	
	Type	Shell-and-tube water cooled condenser										
	Condensing temperature °C	38										
	Inlet and outlet water temperature °C	30/35										
	Water flow m³/h	22.5	38.5	46.5	56.0	56.0	22.5	38.5	46.5	56.0	56.0	
Overall dimension	Water inlet and outlet pipes mm	76	89	108	108	108	76	89	108	108	108	
	Length (L) mm	2900	3400	3400	3500	3500	2900	3400	3400	3500	3500	
	Width (W) mm	1900	2100	2200	2200	2200	1900	2100	2200	2200	2200	
Unit weight	Height (H) mm	1800	2000	2200	2200	2200	1800	2000	2200	2200	2200	
	Net weight kg	4500	5000	5500	6000	6000	4500	5000	5500	6000	6000	
	Operation weight kg	5300	5900	6500	7100	7100	5300	5900	6500	7100	7100	

Notes: 1. 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. If technical parameters of R717 unit are required, please contact with our company;

5. The units mentioned above are the standard ones which can be customized based on user’ s requirements.

Low-Temperature Water Cooled Dry-Type Brine Units (R507A)

Models	CW1L12LWDGPAACA		CW1L16SWDGPAACA		CW1L16MWDGPAACA		CW1L12LWDBPAACA		CW1L16SWDBPAACA		CW1L16MWBPAACA		CW1L16LWDBPAACA	
	kW		81.5	141.2	176.6	212.6	81.5	141.2	176.6	212.6	176.6	212.6	176.6	212.6
Normal Refrigeration capacity in working conditors	kcal/h		70090	121432	151876	182836	70090	121432	151876	182836	151876	182836	151876	182836
	Model		SRM-12L	SRM-16S	SRM-16M	SRM-16L	SRM-12L	SRM-16S	SRM-16M	SRM-16L	SRM-16S	SRM-16M	SRM-16L	SRM-16L
Compressor	Theoretical displacement	m³/h	265	435	544	652	265	435	544	652	435	544	652	652
	Capacity control		Stepless adjustment: 10 ~ 100%											
Main motor	Start method		Y/Δ											
	Power	kW	75	110	132	160	75	110	132	160	132	160	132	160
Oil pump motor	Power supply		380V/50Hz/3P											
	Power	kW	0.75											
Evaporator	Power supply		380V/50Hz/3P											
	Type		Shell-and-tube dry-type evaporator											
Evaporator	Evaporating temperature	℃	-30											
	Inlet and outlet water temperature	℃	-20/-25											
Evaporator	Secondary coolant		Ethanediol											
	Water flow	m³/h	16.5	28.5	36.0	43.5	16.5	28.5	35.0	42.0	35.0	42.0	35.0	42.0
Evaporator	Water inlet and outlet pipes	mm	76	89	89	108	76	89	89	108	89	108	89	108
	Type		Shell-and-tube water cooled condenser											
Condenser	Condensing temperature	℃	38											
	Inlet and outlet water temperature	℃	30/35											
Condenser	Water flow	m³/h	24.0	41.0	51.0	61.0	24.0	41.0	51.0	61.0	51.0	61.0	51.0	61.0
	Water inlet and outlet pipes	mm	76	89	108	108	76	89	108	108	108	108	108	108
Overall dimension	Length (L)	mm	2900	3400	3400	3500	2900	3400	3400	3400	3400	3500	3400	3500
	Width (W)	mm	1900	2100	2200	2200	1900	2100	2200	2200	2200	2200	2200	2200
Unit weight	Height (H)	mm	1800	2000	2200	2200	1800	2000	2200	2200	2200	2200	2200	2200
	Net weight	kg	4500	5000	5500	6000	4500	5000	5500	6000	5500	6000	5500	6000
Unit weight	Operation weight	kg	5300	5900	6500	7100	5300	5900	6500	7100	6500	7100	6500	7100

- Notes: 1. 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. If technical parameters of R717 unit are required, please contact with our company;
5. The units mentioned above are the standard ones which can be customized based on user’ s requirements.

Low-Temperature Water Colded Siphon-Type Brine Units (R22)

Models	Compressor											
	CW1L20SWTBHAACA	CW1L20MWTBHAACA	CW1L20LWTBHAACA	CW1L26SWTBHAACA	CW1L26MWTBHAACA	CW1L26LWTBHAACA						
Nominal Refrigeration capacity in working conditions	kW	285.8	367.8	429.5	549.6	710.4						
	kcal/h	245788	316308	369370	472656	610944						
Compressor	Model	SRM-20S	SRM-20M	SRM-20L	SRM-26S	SRM-26M						
	Theoretical displacement m³/h	850	1100	1270	1659	2075						
Capacity control	Stepless adjustment: 10 ~ 100%											
	Start method	Y/Δ										
Main motor	Power kW	200	250	250	315	400						
	Power supply	380V/50Hz/3P				10kV/50Hz/3P						
Oil pump motor	Power kW	0.75				1.5						
	Power supply	380V/50Hz/3P										
Evaporator	Type	Thermosyphon-type evaporator										
	Evaporating temperature °C	-30										
	Inlet and outlet water temperature °C	-20/-25										
	Secondary coolant	Ethanediol/Calcium chloride										
	Water flow m³/h	58.0	75.0	87.5	112.0	145.0						
Condenser	Water inlet and outlet pipes mm	108	133	133	159	159						
	Type	Shell-and-tube water cooled condenser										
Condensing temperature °C	38											
	Inlet and outlet water temperature °C	30/35										
Condenser	Water flow m³/h	76.0	97.0	113.0	146.5	186.0						
	Water inlet and outlet pipes mm	133	133	159	159	219						
Overall dimension	Length (L) mm	5000	5000	5000	5000	5000						
	Width (W) mm	2400	2500	2600	3400	3500						
	Height (H) mm	3000	3200	3300	3800	4000						
Unit weight	Net weight kg	8000	9500	11000	15000	18000						
	Operation weight kg	9800	10500	13200	18000	21000						

- Notes: 1. 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. If technical parameters of R717 unit are required, please contact with our company;
5. The units mentioned above are the standard ones which can be customized based on user’ s requirements.

Models	CW1L20SWTBPAAACA	CW1L20MWTBPAACA	CW1L20LWTBPAAACA	CW1L26SWTBPAACA	CW1L26MMTBPAACA	CW1L26LWTBPAAACA
	kW	282.6	370.9	432.3	569.1	715.4
Normal Refrigeration capacity in working conditions	kcal/h	243036	318974	371778	489426	615244
Compressor	Model	SRM-20S	SRM-20M	SRM-20L	SRM-26S	SRM-26M
	Theoretical displacement m³/h	850	1100	1270	1659	2075
Stepless adjustment: 10 ~100%						
Main motor	Start method	Y/Δ				
	Power kW	250	280	315	400	500
Oil pump motor	Power supply	380V/50Hz/3P				
	Power kW	0.75				
Evaporator	Power supply	380V/50Hz/3P				
	Type	Thermosyphon-type evaporator				
Condenser	Evaporating temperature °C	-30				
	Inlet and outlet water temperature °C	-20/-25				
Overall dimension	Secondary coolant	Ethanedical/Calcium chloride				
	Water flow m³/h	57.8	75.5	88.5	116.0	146.0
Unit weight	Water inlet and outlet pipes mm	108	133	159	159	159
	Type	Shell-and-tube water cooled condenser				
Condenser	Condensing temperature °C	38				
	Inlet and outlet water temperature °C	30/35				
Overall dimension	Water flow m³/h	82	108	123	163	202
	Water inlet and outlet pipes mm	133	159	159	219	219
Unit weight	Length (L) mm	5000	5000	5000	5000	5000
	Width (W) mm	2400	2500	2600	3400	3500
Unit weight	Height (H) mm	3000	3200	3300	3800	4000
	Net weight kg	8000	9500	11000	15000	18000
Unit weight	Operation weight kg	9800	10500	13200	18000	21000
						23500

Notes: 1. Voltage fluctuation range: ± 10%;

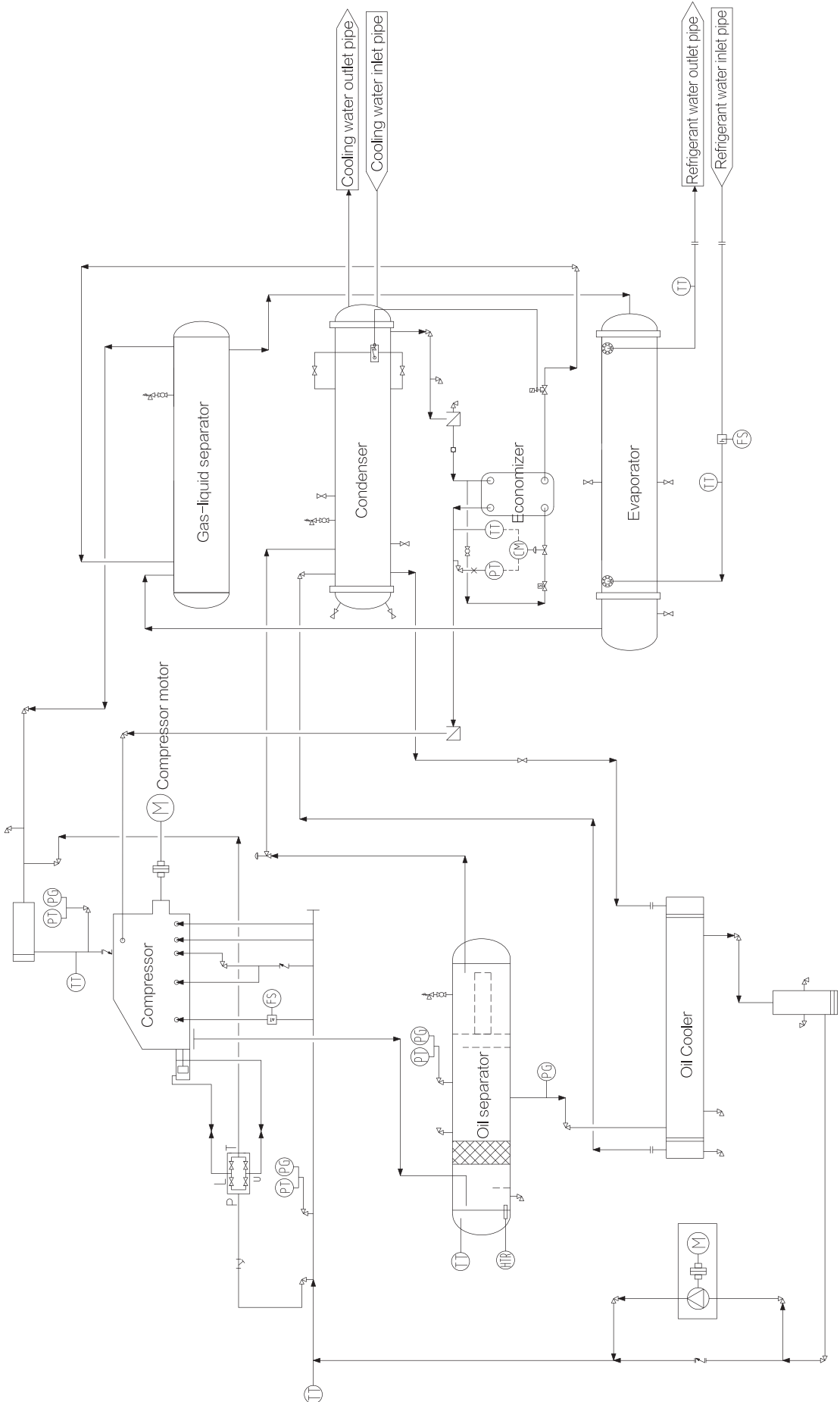
2. The inlet and outlet of units are connected by flanges. Details should be given in the order if other connections are required;

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

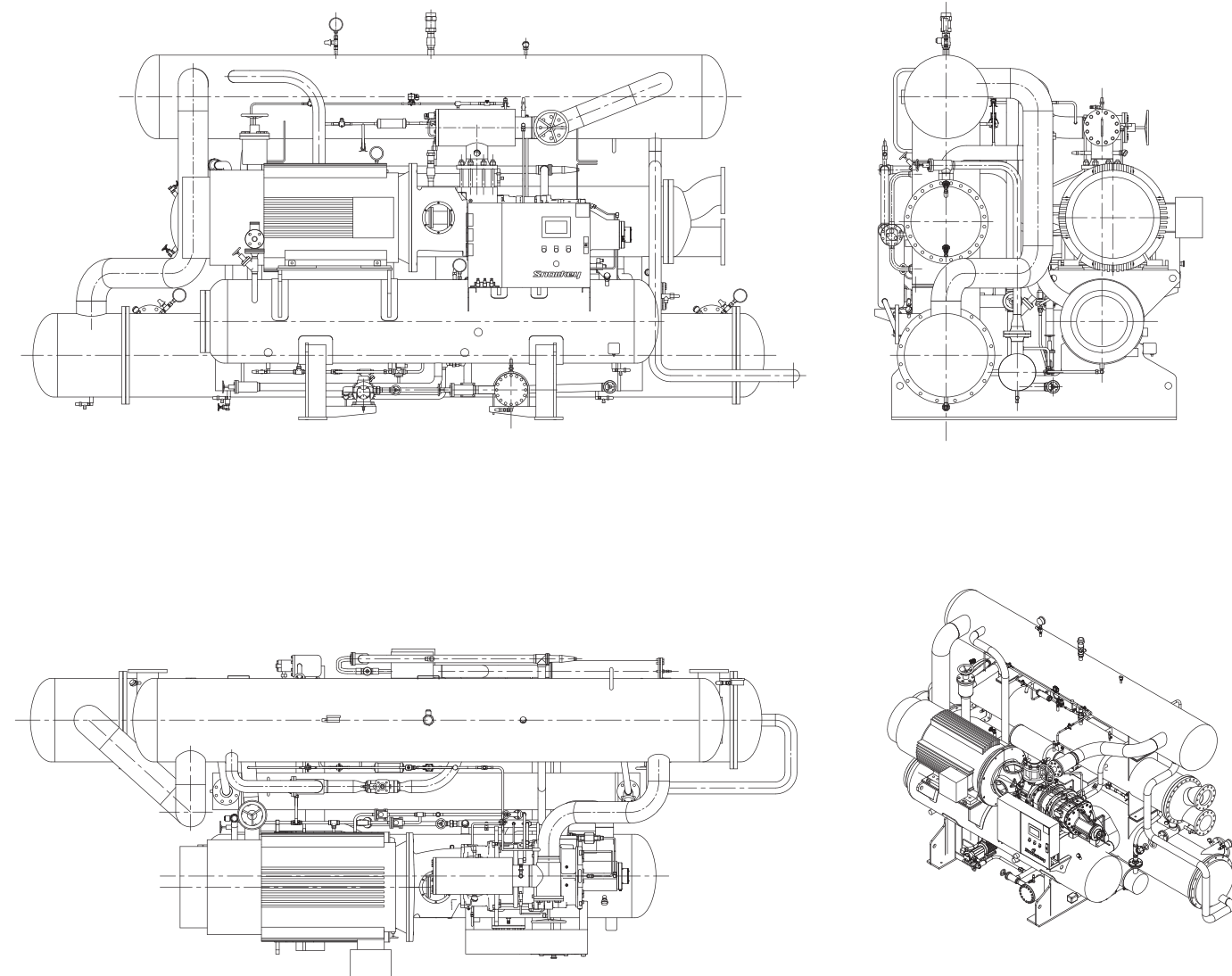
4. If technical parameters of R717 unit are required, please contact with our company;

5. The units mentioned above are the standard ones which can be customized based on user' s requirements.

Typical brine units system diagram



Typical Brine Units Outline Diagram



Application area of units

