



CW Series

Semi-hermetic Screw Brine Units

FUJIAN SNOWMAN CO., LTD

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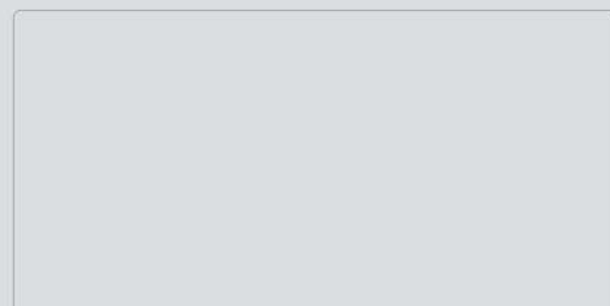
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Version 1, March 2016

RefComp Italy

Subsidiary 100% owned by Snowman

The World Famous Brand for Screw
Compressor and Piston Compressor

Secondary refrigerant system solution
for multiple working conditions

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



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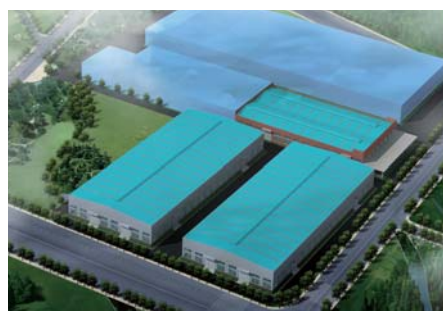
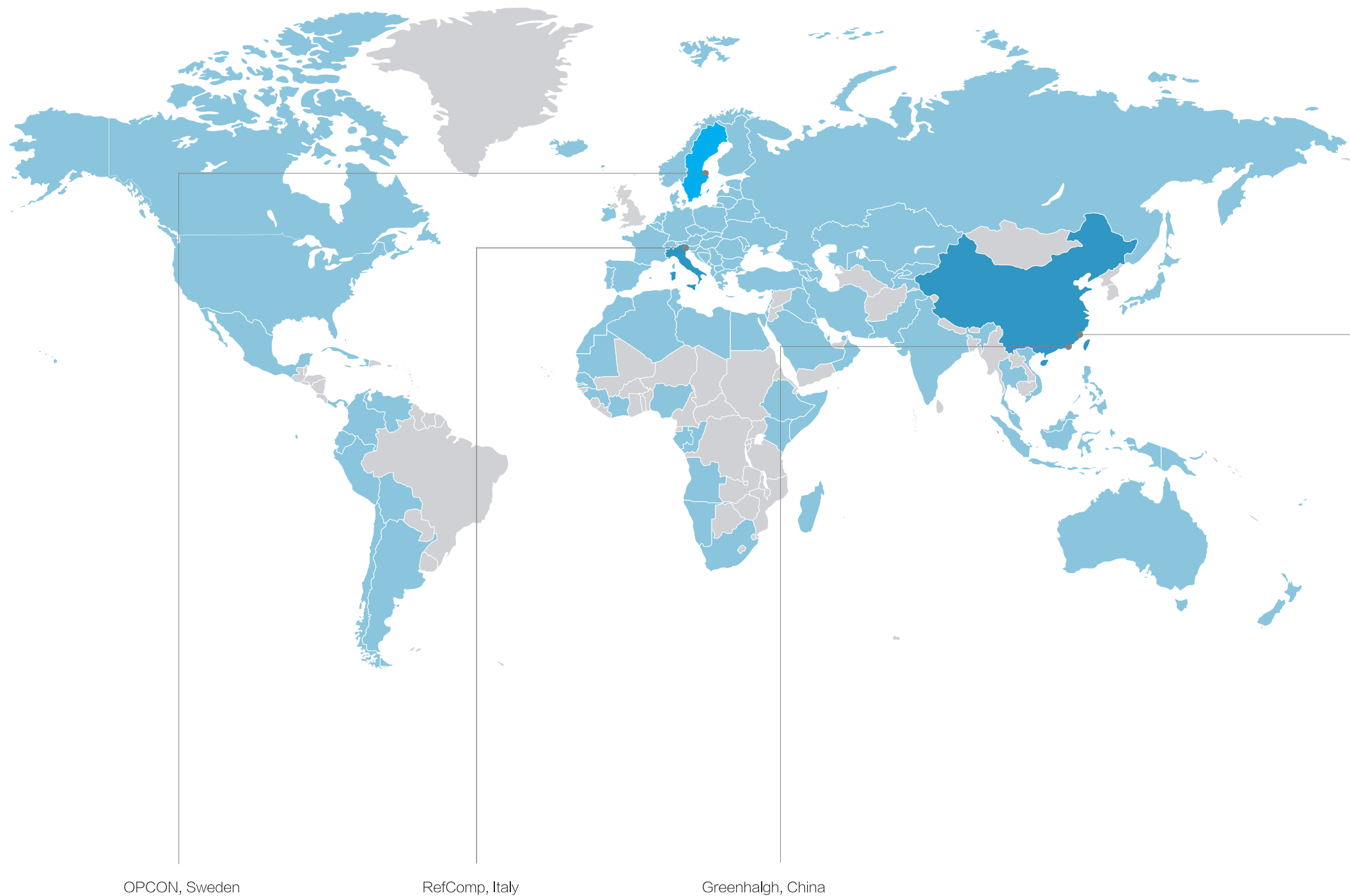
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Snowman Co., Ltd uses RefComp semi-hermetic screw compressor and launches full series of the standard semi-hermetic screw-type brine units through optimized design. Brine unit is a general name for the units that use secondary coolant. The common secondary coolants include: solutions of ethylene glycol, propylene glycol, calcium chloride, sodium chloride and other special secondary coolants. The selected secondary coolants can not freeze under the evaporating temperature of refrigeration units and should have relatively good fluidity. When you consult Snowman Co., Ltd. for units, please tell us the secondary coolants to be used. We will make an optimized design for your application to ensure that the system can run safely and stably under correct designed working conditions in the future.

Snowman's semi-hermetic screw-type brine units can produce refrigeration power in various conditions like high, medium or low temperature to provide economical, energy saving, high efficiency and safe solutions to clients. The units can run safely and reliably with easy control. They can be extensively used in such fields as petroleum, chemical industry, coal, textile, medicine, aquatic product, business, food, shipbuilding, national defense and scientific research and others that need artificial refrigeration.

Package 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 suction gas is 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 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 clients' requirements;
- Electronic expansion valves are used with exact load adjustment;
- Tailored design to reduce the cost of operation for clients;
- RefComp semi-hermetic screw compressors have high efficiency, low noise, compact structure and easy installation;
- The compressors are featured with adjustable internal MI, 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 international famous brand PLCs and 64 k true color touch screen, with easy operation and reliable running. The control center can make real-time recording for running parameters and faulty conditions, and are 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 to protect the compressors;
- High-low pressure protection can protect the compressor and system in severe working conditions;
- Function of flow switch can prevent the units from running with water supply interrupted to ensure the system safety;
- Function of water temperature protection can prevent heat exchangers from being damaged by freezing;
- Function of oil level protection can prevent compressors from being damaged by lack of oil;
- Safety valves are configured to prevent the system pressure from rising too high.

Unit model no. explanation

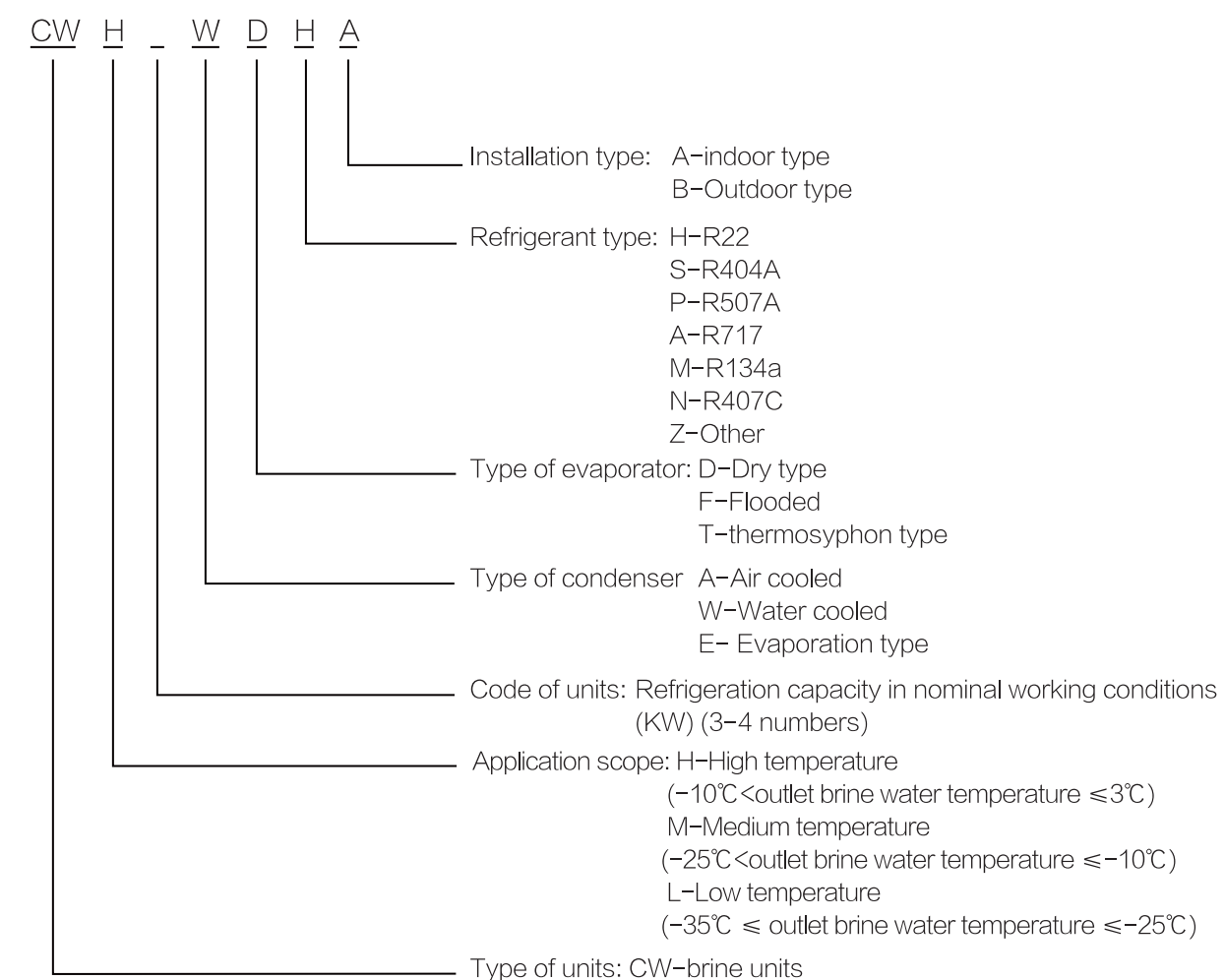


Table of Technical Parameters

High-temperature water cooled dry-type brine units (R22)

Model			CWH____WDHA								
			125	180	270	360	435	650	790	930	1300
Refrigeration capacity	kW		125.5	184.9	273.8	364.4	437.8	650.9	794.6	934.8	1301.8
	kCal/h		107930	159014	235468	313384	376508	559774	683356	803928	1119548
Compressor	Qty	platform	1	1	1	1	1	1	2	2	2
	Input power	kW	33.5	46.8	68	88.5	109.8	169.7	99.6x2	117.2x2	169.7x2
	Capacity control		100-75-50%, min								
	Start method		Y/Δ								
	Refrigerant		R22								
Evaporator	Type		Shell-and-tube dry-type evaporator								
	Inlet and outlet water temperature	℃	8/3								
	Water flow	m³/h	22.2	32.8	48.5	64.6	77.6	115.4	140.9	165.7	230.8
	Water inlet and outlet pipes	mm	DN80	DN100	DN100	DN125	DN125	DN150	DN200	DN200	DN200
	Water pressure drop	kPa	38	39	43	46	49	51	69	72	73
Condenser	Type		Shell-and-tube condenser								
	Inlet and outlet water temperature	℃	32/37								
	Water flow	m³/h	32.7	47.7	70.3	93.2	112.6	168.8	204.4	240.5	337.6
	Water inlet and outlet pipes	mm	DN100	DN125	DN125	DN150	DN200	DN200	DN250	DN250	DN300
	Water pressure drop	kPa	42	46	49	52	57	70	74	76	78
Overall dimension	Length	mm	2750	2850	2900	3400	4000	4600	5100	5150	5200
	Width	mm	1150	1250	1300	1300	1350	1400	1450	1500	1600
	Height	mm	1800	1950	2050	2150	2250	2350	2400	2550	2700
Package weight	Net weight	kg	1200	1780	2050	2550	3160	3630	5130	6310	7000
	Operational weight	kg	1280	1900	2230	2780	3470	4060	5700	7030	7900
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, but they can be specially designed based on the clients’ requirement.											

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

Model			CWH____WDPA								
			120	165	230	275	350	440	635	805	950
Refrigeration capacity	kW		121.7	166.3	232	276.7	352.1	444.4	635.6	806.4	950.2
	kCal/h		104662	143018	199520	237962	302806	382184	546616	693504	817172
Compressor	Qty	platform	1	1	1	1	1	1	2	2	2
	Input power	kW	34.2	46.8	65.2	77.8	112	141.6	101.3x2	128.6x2	151.2x2
	Capacity control		100-75-50%, min								
	Start method		Y/Δ								
	Refrigerant		R507A								
Evaporator	Type		Shell-and-tube dry-type evaporator								
	Inlet and outlet water temperature	℃	8/3								
	Water flow	m³/h	21.6	29.5	41.1	49.1	62.4	78.8	112.7	142.9	168.4
	Water inlet and outlet pipes	mm	DN80	DN100	DN100	DN125	DN125	DN150	DN200	DN200	DN200
	Water pressure drop	kPa	38	39	43	46	49	51	69	72	73
Condenser	Type		Shell-and-tube condenser								
	Inlet and outlet water temperature	℃	32/37								
	Water flow	m³/h	32.1	43.8	61.1	72.9	95.5	120.5	172.4	218.8	257.7
	Water inlet and outlet pipes	mm	DN100	DN125	DN125	DN150	DN200	DN200	DN250	DN250	DN300
	Water pressure drop	kPa	42	46	49	52	57	70	74	76	78
Overall dimension	Length	mm	2750	2850	2900	3400	4000	4600	5100	5150	5200
	Width	mm	1150	1250	1300	1300	1350	1400	1450	1500	1600
	Height	mm	1800	1950	2050	2150	2250	2350	2400	2550	2700
Package weight	Net weight	kg	1200	1780	2050	2550	3160	3630	5130	6310	7000
	Operational weight	kg	1280	1900	2230	2780	3470	4060	5700	7030	7900
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, but they can be specially designed based on the clients’ requirement.											

Table of Technical Parameters

High-temperature water cooled flooded brine units (R22)

Model			CWH____WFHA								
			270	390	470	505	695	780	855	1010	1395
Refrigeration capacity	kW		272.1	392	473.7	505.7	699.8	784	859.8	1011.4	1399.6
	kCal/h		234006	337120	407382	434902	601828	674240	739428	869804	1203656
Compressor	Qty	platform	1	1	1	1	1	2	2	2	2
	Input power	kW	63.6	89.8	110.9	118.4	171	89.8x2	100.7x2	118.4x2	171x2
	Capacity control		100-75-50%, min								
	Start method		Y/Δ								
	Refrigerant		R22								
Evaporator	Type		Shell-and-tube flooded evaporator								
	Inlet and outlet water temperature	℃	8/3								
	Water flow	m³/h	48.2	69.5	84.0	89.6	124.1	139.0	152.4	179.3	248.1
	Water inlet and outlet pipes	mm	DN100	DN125	DN125	DN125	DN150	DN150	DN150	DN200	DN250
	Water pressure drop	kPa	43	47	48	49	55	65	68	72	73
Condenser	Type		Shell-and-tube condenser								
	Inlet and outlet water temperature	℃	32/37								
	Water flow	m³/h	69.1	99.1	120.3	128.4	179.1	198.2	218.3	256.8	358.3
	Water inlet and outlet pipes	mm	DN125	DN150	DN200	DN200	DN200	DN200	DN250	DN250	DN300
	Water pressure drop	kPa	49	52	56	57	70	72	74	76	78
Overall dimension	Length	mm	2600	3100	3600	3700	4300	4850	4900	5000	5100
	Width	mm	1800	1850	1950	2050	2100	2200	2300	2400	2550
	Height	mm	1850	1950	2050	2150	2250	2300	2350	2400	2500
Package weight	Net weight	kg	2400	3080	3800	4100	4570	6100	6670	8020	9100
	Operational weight	kg	2720	3400	4230	4550	5160	7000	7580	8960	10270
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, but they can be specially designed based on the clients’ requirement.											

High-temperature water cooled flooded brine units (R507A)

Model			CWH____WFPA								
			130	175	245	295	380	555	685	870	1030
Refrigeration capacity	kW		130.9	178.9	249.6	297.6	381.7	555.2	689	874.2	1030
	kCal/h		112574	153854	214656	255936	328262	477472	592540	751812	885800
Compressor	Qty	platform	1	1	1	1	1	2	2	2	2
	Input power	kW	33.9	46.3	64.6	77.1	113.8	71.9x2	102.8x2	130.6x2	153.5x2
	Capacity control		100-75-50%, min								
	Start method		Y/Δ								
	Refrigerant		R507A								
Evaporator	Type		Shell-and-tube flooded evaporator								
	Inlet and outlet water temperature	℃	8/3								
	Water flow	m³/h	23.2	31.7	44.2	52.8	67.7	98.4	122.1	155.0	182.6
	Water inlet and outlet pipes	mm	DN100	DN125	DN125	DN125	DN150	DN150	DN150	DN200	DN250
	Water pressure drop	kPa	43	47	48	49	55	65	68	72	73
Condenser	Type		Shell-and-tube condenser								
	Inlet and outlet water temperature	℃	32/37								
	Water flow	m³/h	33.9	46.3	64.6	77.1	101.9	143.8	184.0	233.6	275.0
	Water inlet and outlet pipes	mm	DN125	DN150	DN200	DN200	DN200	DN200	DN250	DN250	DN300
	Water pressure drop	kPa	49	52	56	57	70	72	74	76	78
Overall dimension	Length	mm	2600	3100	3600	3700	4300	4850	4900	5000	5100
	Width	mm	1800	1850	1950	2050	2100	2200	2300	2400	2550
	Height	mm	1850	1950	2050	2150	2250	2300	2350	2400	2500
Package weight	Net weight	kg	2400	3080	3800	4100	4570	6100	6670	8020	9100
	Operational weight	kg	2720	3400	4230	4550	5160	7000	7580	8960	10270
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, but they can be specially designed based on the clients’ requirement.											

Table of Technical Parameters

Medium-temperature water cooled dry-type brine units (R22)

Model		CWM____WDHA												
Refrigeration capacity	kW	55	70	90	130	155	190	225	265	390	455	535	680	780
	kCal/h	55.9	71.1	93.2	132.5	159.6	190.1	228.6	268.9	391	457.2	537.8	683.8	782
	platform	48074	61146	80152	113950	137256	163486	196596	231354	336260	393192	462508	588068	672520
Compressor	Qty	1	1	1	1	1	1	1	1	1	2	2	2	2
	Input power kW	24.8	30.9	37.5	51.8	62.4	73.4	94.8	111.5	160.1	94.8x2	111.5x2	129.8x2	160.1x2
	Capacity control	100~75~50%, min												
	Start method	Y/Δ												
	Refrigerant	R22												
	Type	Shell-and-tube dry -type evaporator												
Evaporator	Inlet and outlet water temperature °C	-5/-10												
	Water flow m³/h	10.7	13.6	17.8	25.3	30.4	36.2	43.6	51.3	74.5	87.2	102.5	130.3	149.1
	Water inlet and outlet pipes mm	DN50	DN65	DN65	DN80	DN80	DN100	DN100	DN100	DN125	DN150	DN150	DN150	DN200
	Water pressure top kPa	42	42	43	47	47	50	50	53	56	66	73	77	78
	Type	Shell-and-tube condenser												
	Inlet and outlet water temperature °C	32/37												
Condenser	Water flow m³/h	16.6	27.9	34.3	49.3	57.9	68.6	83.6	98.6	143.6	167.1	197.1	244.3	285.0
	Water inlet and outlet pipes mm	DN80	DN80	DN80	DN100	DN125	DN125	DN125	DN150	DN200	DN200	DN200	DN200	DN250
	Water pressure top kPa	36	39	42	44	47	47	50	54	63	68	72	73	75
Overall dimension	Length mm	2000	2050	2650	2650	3200	3250	3250	3800	3800	4900	4950	5000	5100
	Width mm	1200	1200	1250	1250	1250	1300	1300	1300	1350	1400	1400	1500	1600
	Height mm	1800	1850	1900	1950	2000	2050	2050	2100	2150	2200	2200	2300	2500
Package weight	Net weight kg	900	970	1370	1780	2110	2300	2480	3020	3270	4300	5050	5580	6000
	Operational weight kg	940	1030	1450	1900	2250	2470	2680	3250	3600	4700	5500	6130	6650
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, but they can be specially designed based on the clients' requirement.														

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

Model		CWM____WDPA												
Refrigeration capacity		55	70	90	130	160	190	235	275	440	470	555	725	885
	kW	57	72.5	94.3	133.9	161.3	192.3	236.7	278.5	444	473.4	557	727.4	888
	kCal/h	49020	62350	81098	115154	138718	165378	203562	239510	381840	407124	479020	625564	763680
	Qty platform	1	1	1	1	1	1	1	1	1	2	2	2	2
	Input power kW	28.2	35.5	45.5	62.9	75.7	89	105.9	124.6	196.8	105.9x2	124.6x2	152.2x2	196.8x2
Compressor	Capacity control	100~75~50%, min												
	Start method	Y/Δ												
	Refrigerant	R507A												
	Type	Shell-and-tube dry-type evaporator												
Evaporator	Inlet and outlet water temperature °C	-5/-10												
	Water flow m³/h	10.9	13.8	18.0	25.5	30.7	36.7	45.1	53.1	84.6	90.2	106.2	138.7	169.3
	Water inlet and outlet pipes mm	DN50	DN65	DN65	DN80	DN80	DN100	DN100	DN100	DN125	DN150	DN150	DN150	DN200
	Water pressure top kPa	42	42	43	47	47	50	50	53	56	66	73	77	78
	Type	Shell-and-tube condenser												
Condenser	Inlet and outlet water temperature °C	32/37												
	Water flow m³/h	17.5	22.2	28.8	40.5	48.8	57.9	70.5	82.9	131.8	141.0	165.8	212.3	263.6
	Water inlet and outlet pipes mm	DN80	DN80	DN80	DN100	DN125	DN125	DN125	DN150	DN200	DN200	DN200	DN200	DN250
	Water pressure top kPa	36	39	42	44	47	47	50	54	63	68	72	73	75
Overall dimension	Length mm	2000	2050	2650	2650	3200	3250	3250	3800	3800	4900	4950	5000	5100
	Width mm	1200	1200	1250	1250	1250	1300	1300	1300	1350	1400	1400	1500	1600
	Height mm	1800	1850	1900	1950	2000	2050	2050	2100	2150	2200	2200	2300	2500
Package weight	Net weight kg	900	970	1370	1780	2110	2300	2480	3020	3270	4300	5050	5580	6000
	Operational weight kg	940	1030	1450	1900	2250	2470	2680	3250	3600	4700	5500	6130	6650

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, but they can be specially designed based on the clients' requirement.

Table of Technical Parameters

Medium-temperature water cooled flooded brine units (R22)

Model		CWM____WFHA									
		245	290	345	465	585	740	850	1295		
Refrigeration capacity	kW	249.7	293.7	349.6	465.4	587.4	743.4	853	1296.8		
	kCal/h	214742	252582	300656	40244	505164	639324	733580	1115248		
Compressor	Qty platform	1	1	2	2	2	2	2	2		
	Input power kW	95.3	112.1	63.2x2	82.2x2	112.1x2	131.7x2	161.9x2	227.4x2		
	Capacity control	100-75-50%, min									
Start method		Y/Δ									
Refrigerant		R22									
Type		Shell-and-tube flooded evaporator									
Evaporator	Inlet and outlet water temperature	-5/-10									
	Water flow m³/h	47.6	56.0	66.6	88.7	112.0	141.7	162.6	247.2		
	Water inlet and outlet pipes mm	DN100	DN100	DN125	DN125	DN125	DN150	DN200	DN200		
	Water pressure drop kPa	51	53	60	63	73	77	71	75		
Type		Shell-and-tube condenser									
Condenser	Inlet and outlet water temperature	32/37									
	Water flow m³/h	71.0	83.5	97.9	129.6	167.0	207.1	242.1	360.3		
	Water inlet and outlet pipes mm	DN125	DN150	DN150	DN200	DN200	DN250	DN250	DN300		
	Water pressure drop kPa	50	55	63	69	74	75	76	78		
	Length mm	2600	3150	4650	4750	4800	4900	5000	6100		
Overall dimension	Width mm	1900	1900	1950	2050	2150	2350	2500	2600		
	Height mm	1950	1950	1950	2100	2250	2400	2500	2700		
Package weight	Net weight kg	2700	3220	4200	4850	6100	6670	6950	9380		
	Operational weight kg	3080	3640	4770	5550	6920	7700	8170	11050		

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, but they can be specially designed based on the clients' requirement.

Medium-temperature water cooled flooded brine units (R507A)

Model		CWM____WFPA							
		260	305	350	470	610	790	960	1380
Refrigeration capacity	kW	261.1	307.2	354.6	472.4	614.4	791.2	961.6	1380.6
	kCal/h	224546	264192	304956	406264	528384	680432	826976	1187316
	Qty platform	1	1	2	2	2	2	2	2
Compressor	Input power kW	106.9	125.7	76x2	99x2	125.7x2	154.1x2	199.4x2	266.1x2
	Capacity control	100-75-50%, min							
	Start method	Y/Δ							
	Refrigerant	R507A							
	Type	Shell-and-tube flooded evaporator							
	Inlet and outlet water temperature °C	-5/-10							
Evaporator	Water flow m³/h	49.8	58.6	67.6	90.0	117.1	150.8	183.3	263.2
	Water inlet and outlet pipes mm	DN100	DN100	DN125	DN125	DN125	DN150	DN200	DN200
	Water pressure drop kPa	51	53	60	63	73	77	71	75
	Type	Shell-and-tube condenser							
	Inlet and outlet water temperature °C	32/37							
	Water flow m³/h	75.7	89.1	104.2	137.9	178.1	226.2	279.9	393.5
Condenser	Water inlet and outlet pipes mm	DN125	DN150	DN150	DN200	DN200	DN250	DN250	DN300
	Water pressure drop kPa	50	55	63	69	74	75	76	78
	Length mm	2600	3150	4650	4750	4800	4900	5000	6100
Overall dimension	Width mm	1900	1900	1950	2050	2150	2350	2500	2600
	Height mm	1950	1950	1950	2100	2250	2400	2500	2700
	Net weight kg	2700	3220	4200	4850	6100	6670	6950	9380
Package weight	Operational weight kg	3080	3640	4770	5550	6920	7700	8170	11050

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, but they can be specially designed based on the clients' requirement.

Table of Technical Parameters

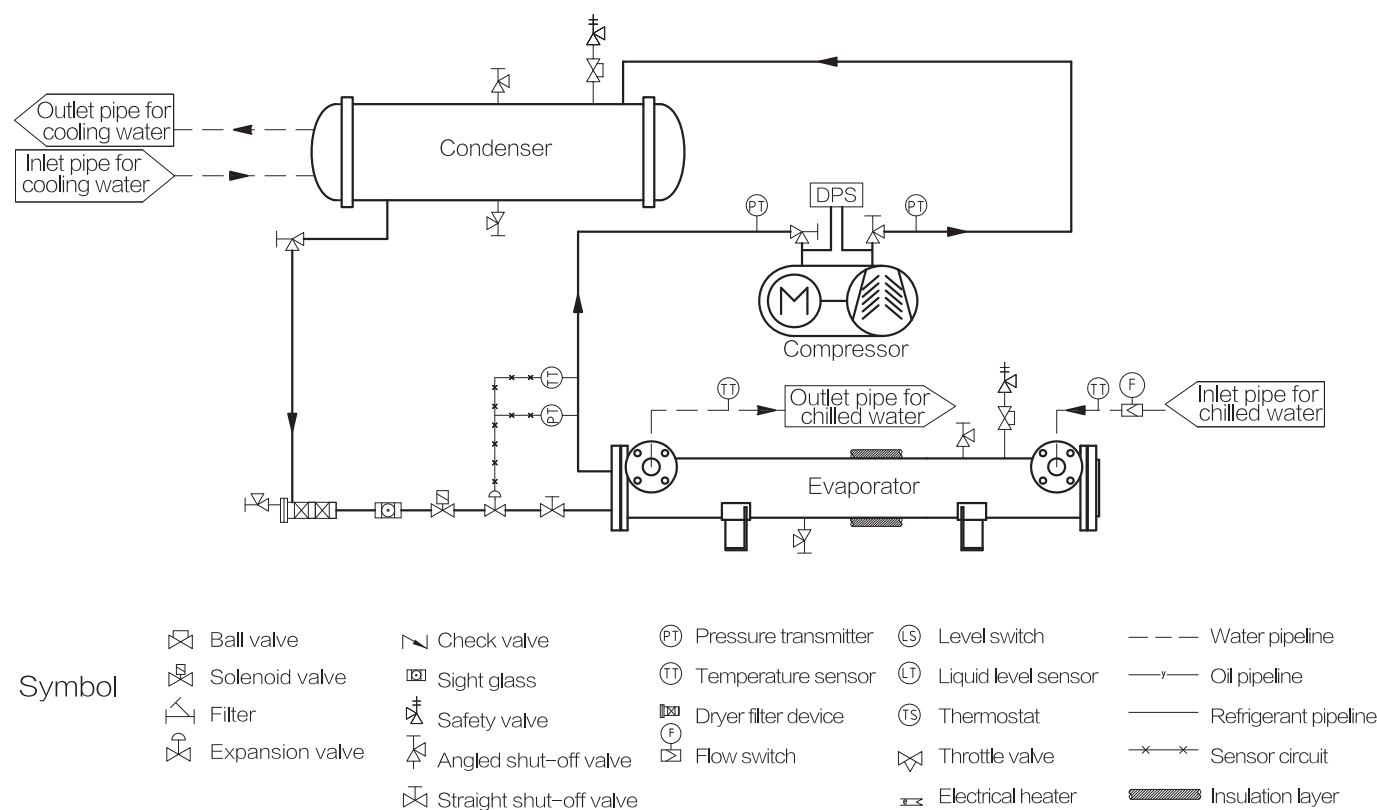
Low-temperature water cooled dry-type brine units (R22)

Model			CWL____WDHA									
			35	45	75	100	140	150	215	280	340	420
Refrigeration capacity	kW		39.3	48.3	75.8	101.5	140	151.6	215.6	280	344	420.6
	kCal/h		33798	41538	65188	87290	120400	130376	185416	240800	295840	361716
Compressor	Qty	platform	1	1	1	1	1	2	2	2	2	2
	Input power	kW	23.4	29.2	42.9	56.6	79.5	42.9x2	59.8x2	79.5x2	97.5x2	116.2x2
	Capacity control		100-75-50%, min									
	Start method		Y/Δ									
	Refrigerant		R22									
Evaporator	Type		Shell-and-tube dry-type evaporator									
	Inlet and outlet water temperature	℃	-20/-25									
	Water flow	m³/h	8.1	9.9	15.6	20.9	28.8	31.2	44.4	57.7	70.9	86.6
	Water inlet and outlet pipes	mm	DN50	DN65	DN65	DN80	DN100	DN100	DN125	DN125	DN150	DN150
	Water pressure drop	kPa	42	42	47	48	51	59	60	66	73	78
Condenser	Type		Shell-and-tube condenser									
	Inlet and outlet water temperature	℃	32/37									
	Water flow	m³/h	12.5	15.4	23.6	31.6	44.0	47.2	67.1	88.0	108.1	131.1
	Water inlet and outlet pipes	mm	DN65	DN65	DN80	DN100	DN125	DN125	DN150	DN150	DN200	DN200
	Water pressure drop	kPa	34	35	40	42	45	51	57	62	69	71
Overall dimension	Length	mm	1950	1950	2600	2600	2600	3900	5000	5100	5200	5300
	Width	mm	1200	1300	1350	1400	1450	1850	1850	1950	2050	2200
	Height	mm	1150	1150	1250	1400	1500	1700	1800	1900	2000	2100
Package weight	Net weight	kg	920	1100	1540	2000	2400	2890	3900	4480	5650	6150
	Operational weight	kg	950	1130	1600	2060	2500	3010	4070	4700	5920	6480
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, but they can be specially designed based on the clients’ requirement.												

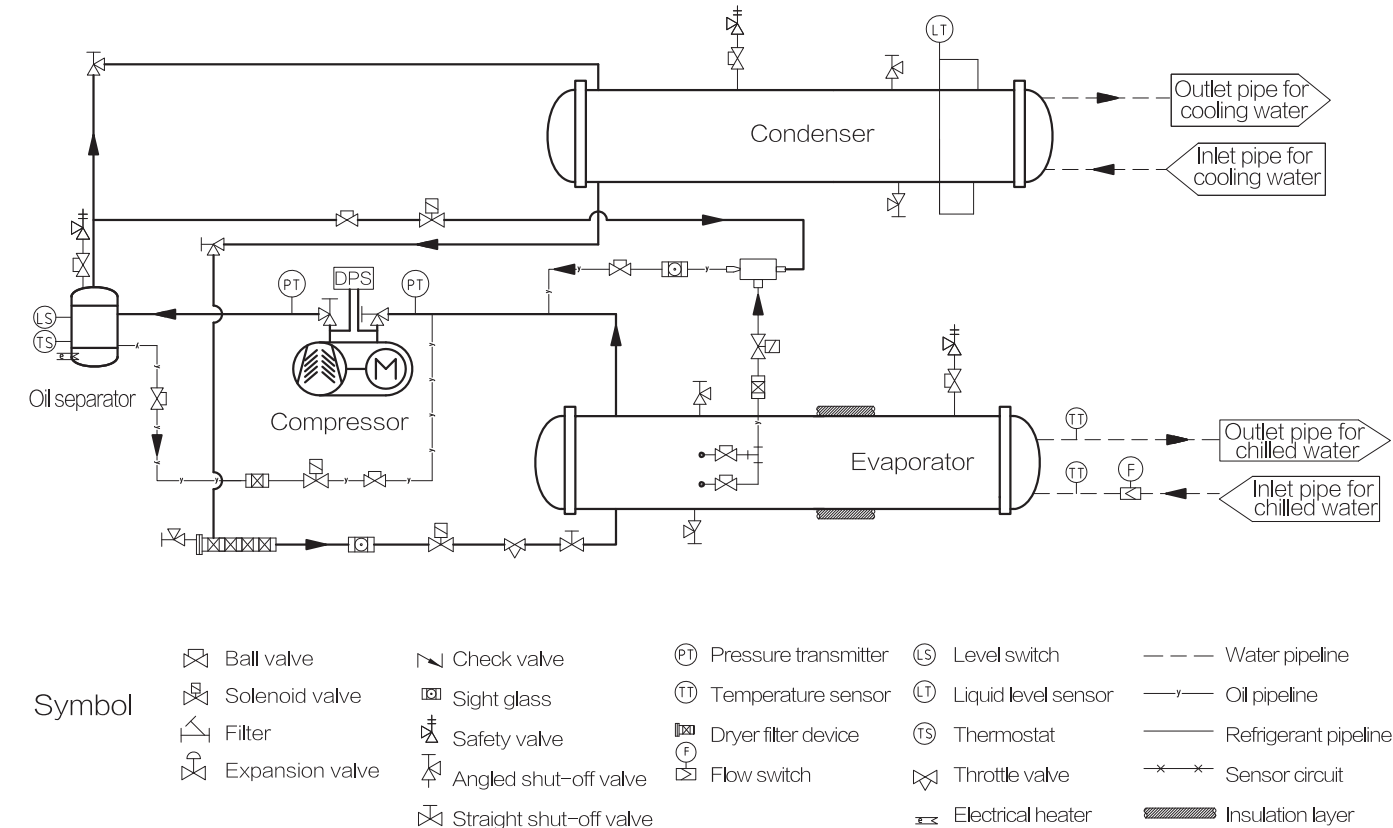
Low-temperature water cooled dry-type brine units(R507A)

Model			CWL____WDPA									
			40	50	80	105	155	160	220	315	395	480
Refrigeration capacity	kW		41.2	52.5	82.4	106.5	158	164.8	224.4	316	397.6	483.6
	kCal/h		35432	45150	70864	91590	135880	141728	192984	271760	341936	415896
Compressor	Qty	platform	1	1	1	1	1	2	2	2	2	2
	Input power	kW	28	33.4	51.8	66.4	96.8	51.8x2	70.3x2	96.8x2	116.4x2	139.9x2
	Capacity control		100-75-50%, min									
	Start method		Y/Δ									
	Refrigerant		R507A									
Evaporator	Type		Shell-and-tube dry-type evaporator									
	Inlet and outlet water temperature	℃	-20/-25									
	Water flow	m³/h	8.5	10.8	17.0	21.9	32.5	33.9	46.2	65.1	81.9	99.6
	Water inlet and outlet pipes	mm	DN50	DN65	DN65	DN80	DN100	DN100	DN125	DN125	DN150	DN150
	Water pressure drop	kPa	42	42	47	48	51	59	60	66	73	78
Condenser	Type		Shell-and-tube condenser									
	Inlet and outlet water temperature	℃	32/37									
	Water flow	m³/h	12.6	15.7	24.4	31.6	46.9	48.9	67.0	93.8	116.7	141.7
	Water inlet and outlet pipes	mm	DN65	DN65	DN80	DN100	DN125	DN125	DN150	DN150	DN200	DN200
	Water pressure drop	kPa	34	35	40	42	45	51	57	62	69	71
Overall dimension	Length	mm	1950	1950	2600	2600	2600	3900	5000	5100	5200	5300
	Width	mm	1200	1300	1350	1400	1450	1850	1850	1950	2050	2200
	Height	mm	1150	1150	1250	1400	1500	1700	1800	1900	2000	2100
Package weight	Net weight	kg	920	1100	1540	2000	2400	2890	3900	4480	5650	6150
	Operational weight	kg	950	1130	1600	2060	2500	3010	4070	4700	5920	6480
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, but they can be specially designed based on the clients’ requirement.												

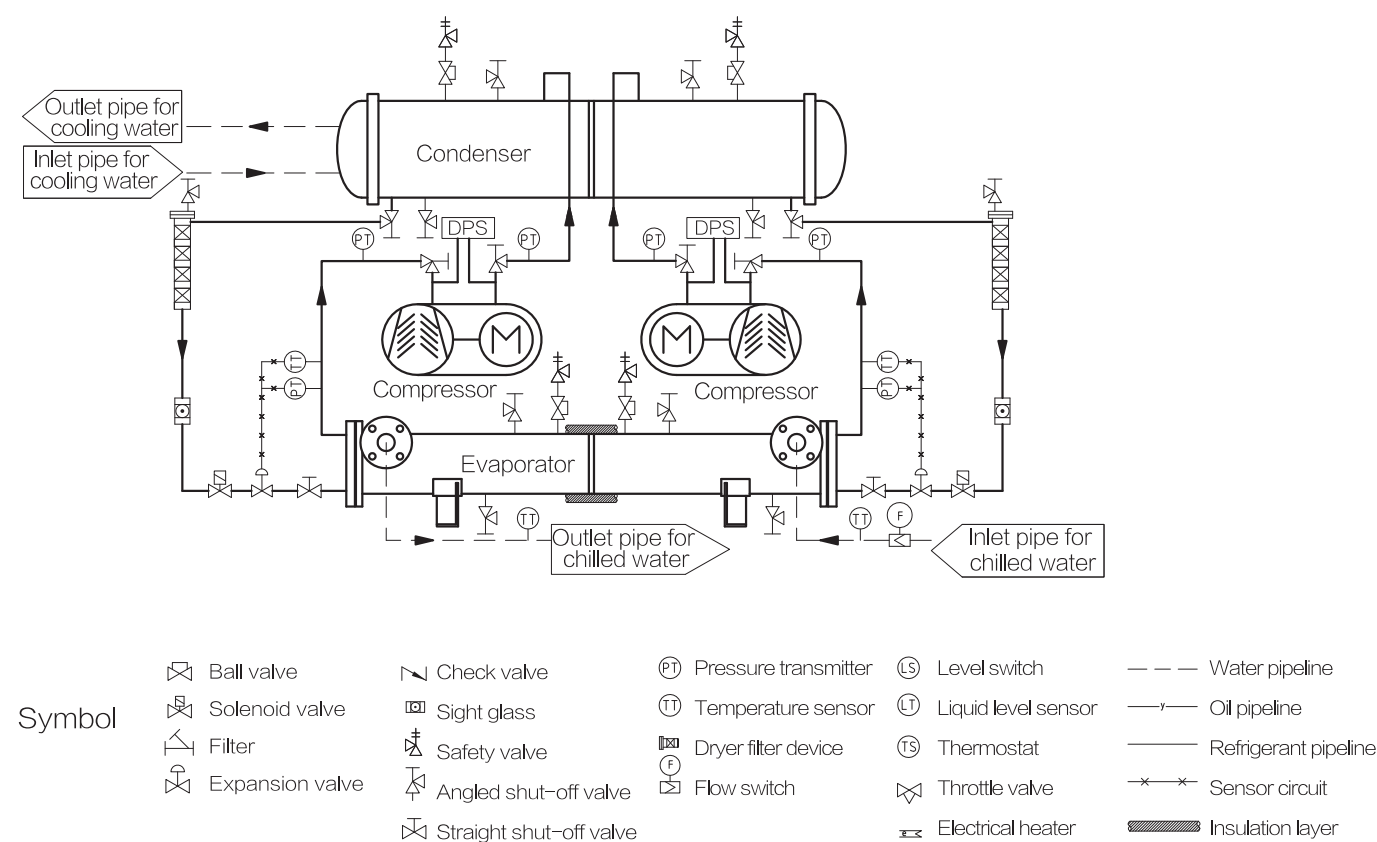
Drawing of system of medium-, high-temperature water cooled dry-type brine units (single head)



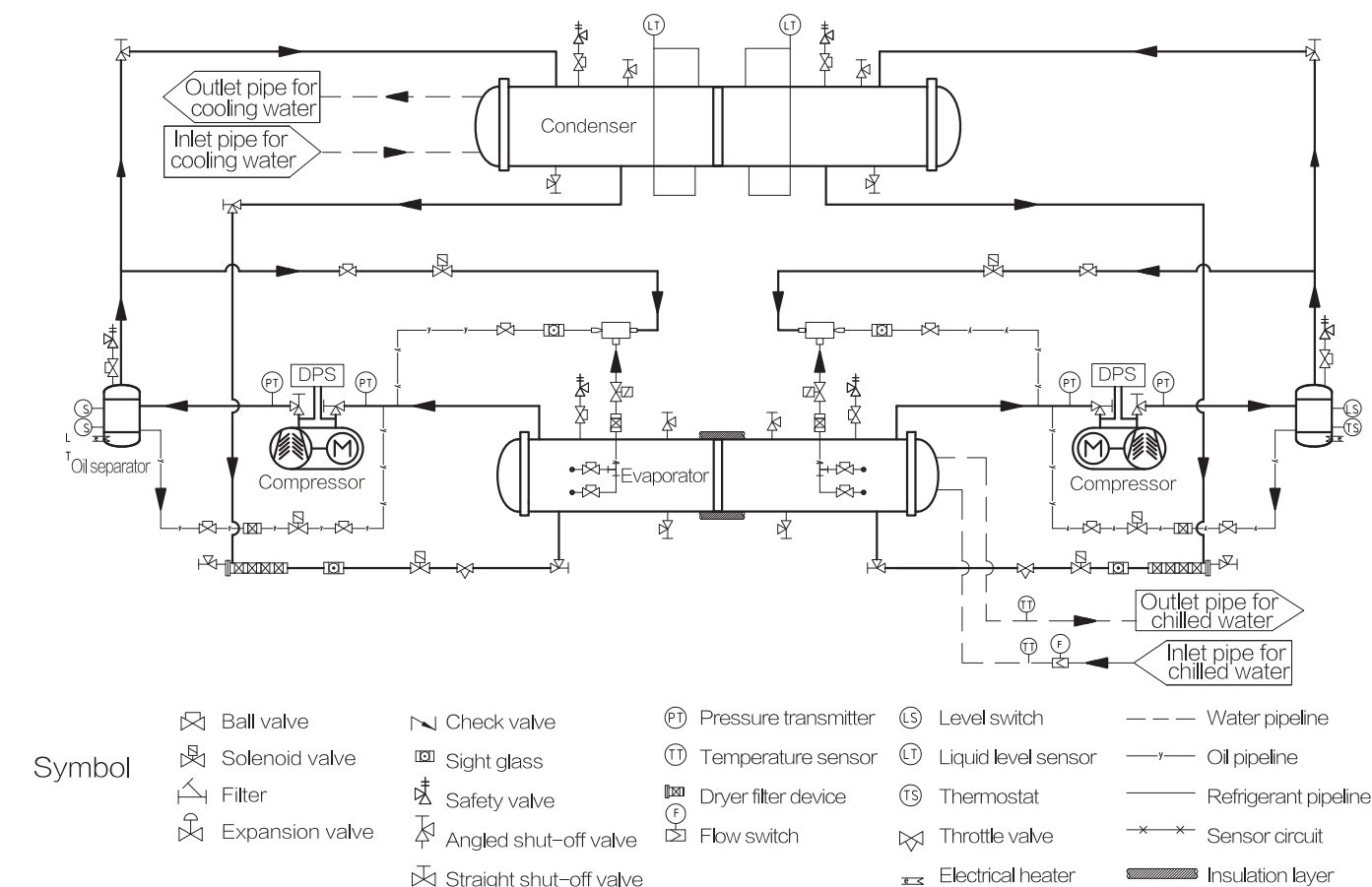
Drawing of system of medium-, high-temperature water cooled flooded brine units (single head)



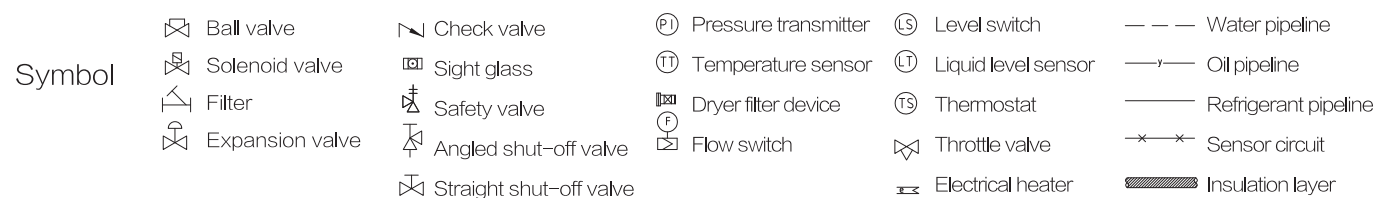
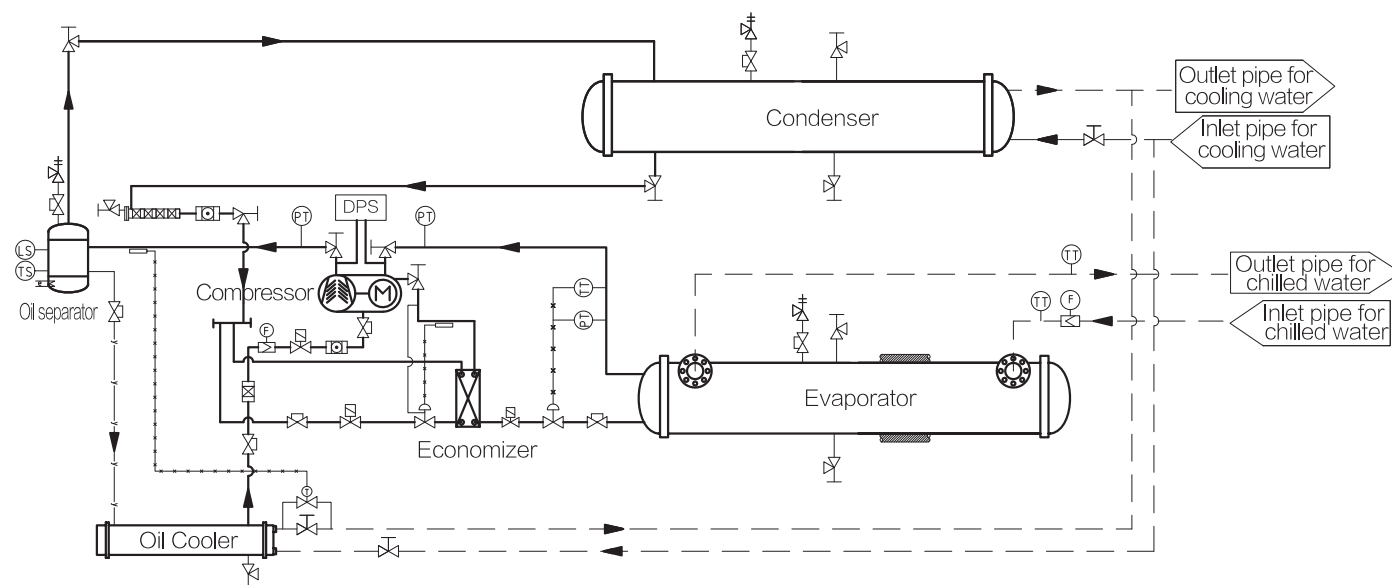
Drawing of system of medium-, high-temperature water cooled dry-type brine units (double heads)



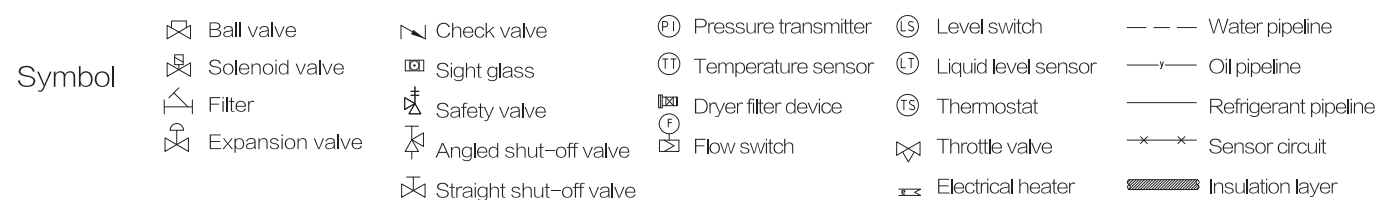
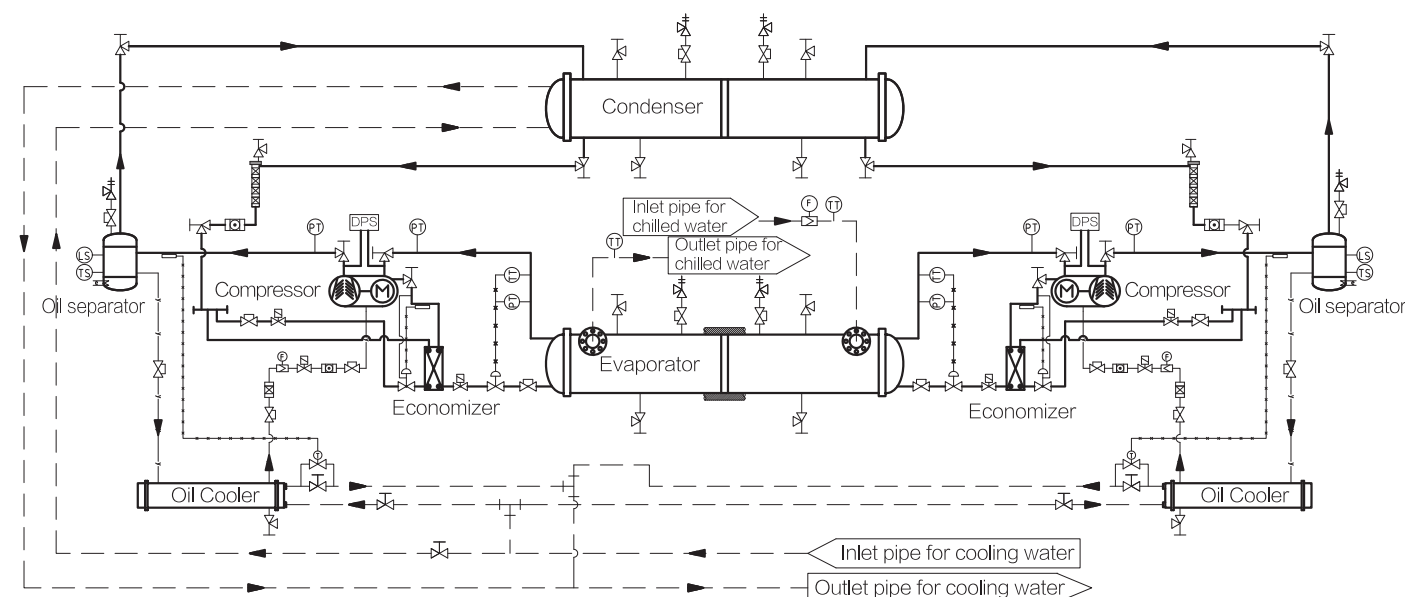
Drawing of system of medium-, high-temperature water cooled flooded brine units (double head)



Drawing of system of low-temperature water cooled dry-type brine units (single head)



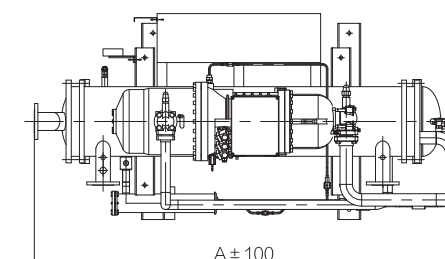
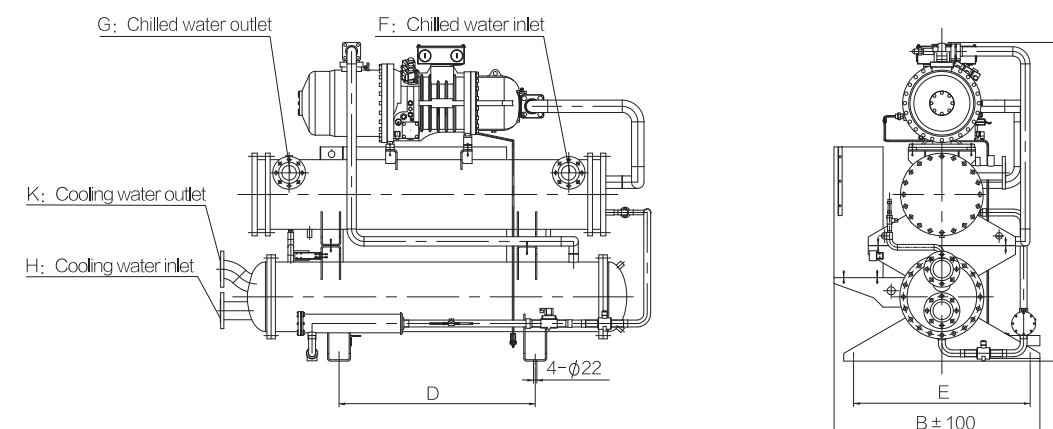
Drawing of system of low-temperature water cooled dry-type brine units (double heads)



Outline Drawing of Brine Units

High-temperature water cooled dry-type brine units

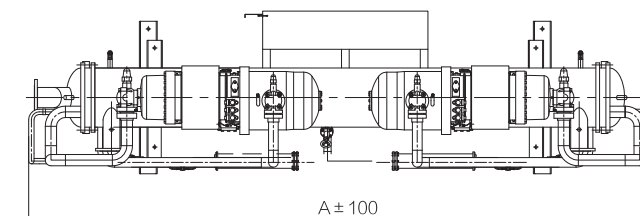
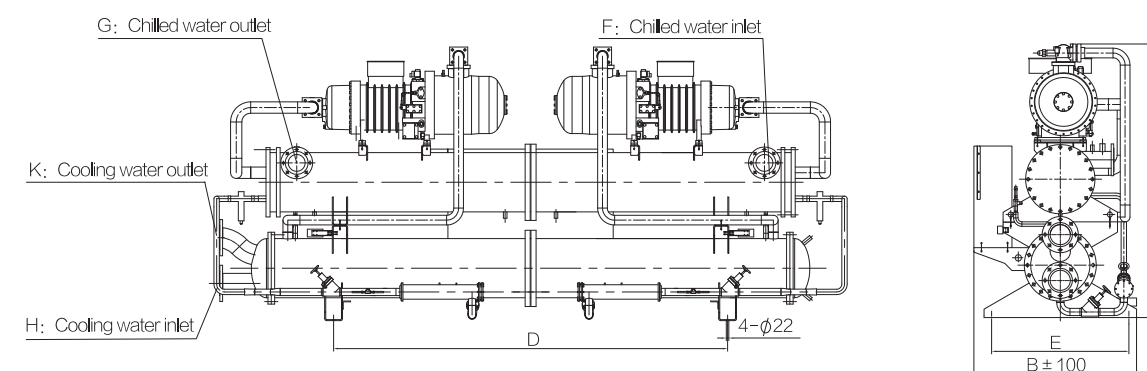
CWH125 ~ 650WDHA/CWH120 ~ 440WDPA



Unit: mm

Model	A	B	C	D	E	F	G	H	K
CWH125WDHA/CWH120WDPA	2750	1150	1800	1200	1000	DN80	DN80	DN100	DN100
CWH180WDHA/CWH165WDPA	2850	1250	1950	1200	1050	DN100	DN100	DN125	DN125
CWH270WDHA/CWH230WDPA	2900	1300	2050	1300	1100	DN100	DN100	DN125	DN125
CWH360WDHA/CWH275WDPA	3400	1300	2150	1500	1100	DN125	DN125	DN150	DN150
CWH435WDHA/CWH350WDPA	4000	1350	2250	2000	1100	DN125	DN125	DN200	DN200
CWH650WDHA/CWH440WDPA	4600	1400	2350	2300	1200	DN150	DN150	DN200	DN200

CWH790 ~ 1300WDHA/CWH635 ~ 950WDPA

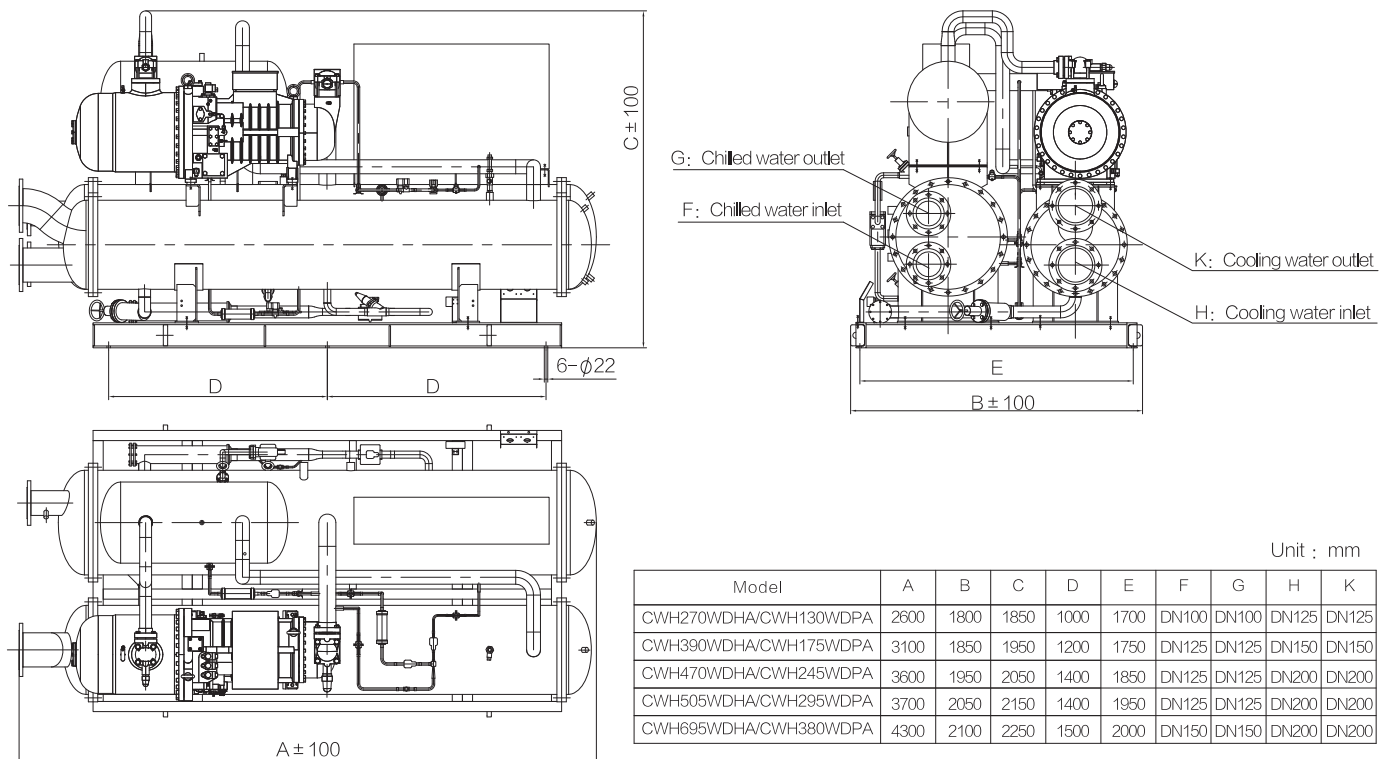


Unit: mm

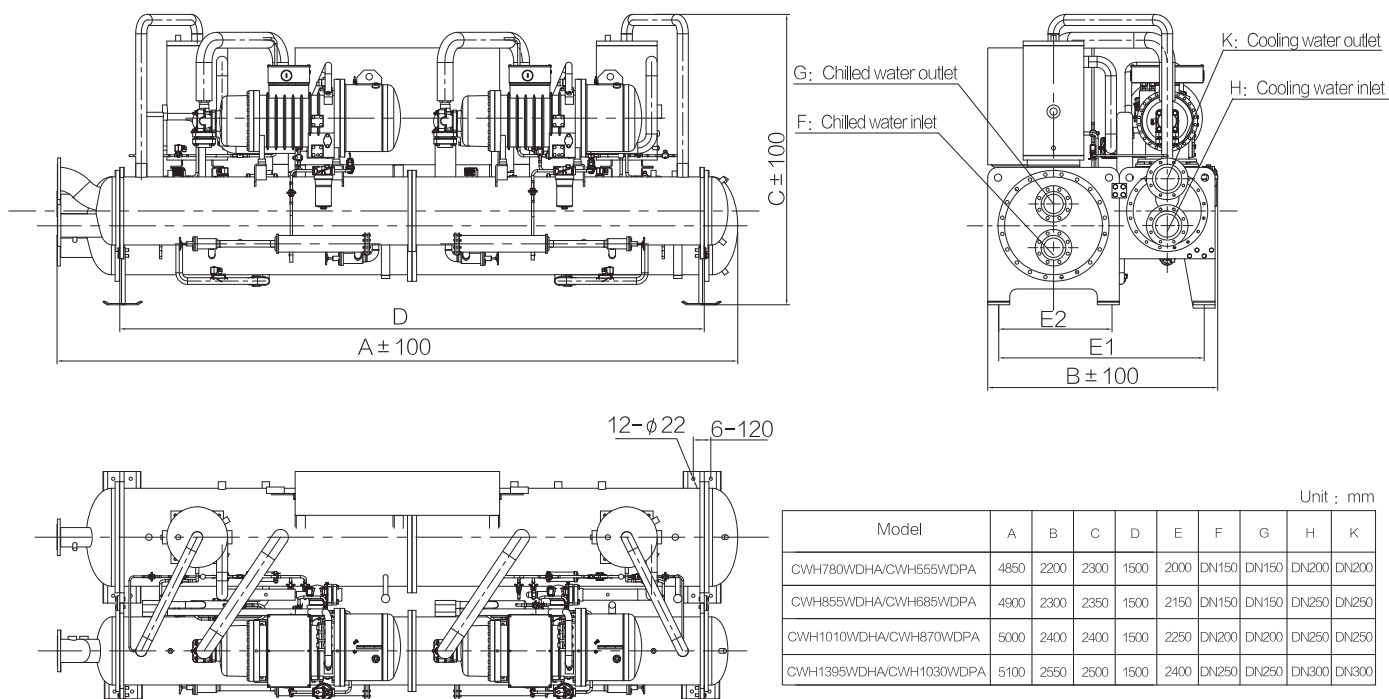
Model	A	B	C	D	E	F	G	H	K
CWH790WDHA/CWH635WDPA	5100	1450	2400	3200	1200	DN200	DN200	DN250	DN250
CWH930WDHA/CWH805WDPA	5150	1500	2550	3200	1200	DN200	DN200	DN250	DN250
CWH1300WDHA/CWH950WDPA	5200	1600	2700	3200	1250	DN200	DN200	DN300	DN300

High-temperature water cooled flooded brine units

CWH270 ~ 695WFHA/CWH130 ~ 380WFPA

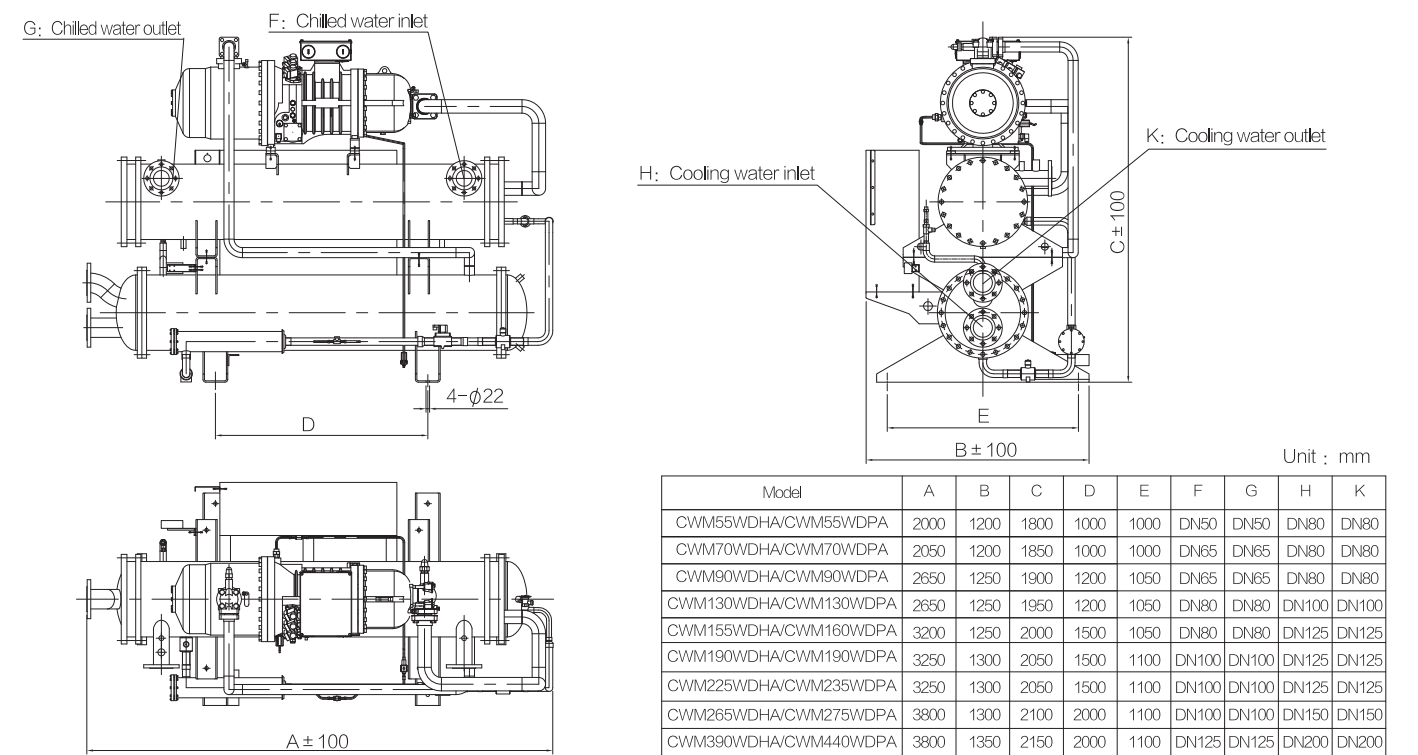


CWH780 ~ 1395WFHA/CWH555 ~ 1030WFPA

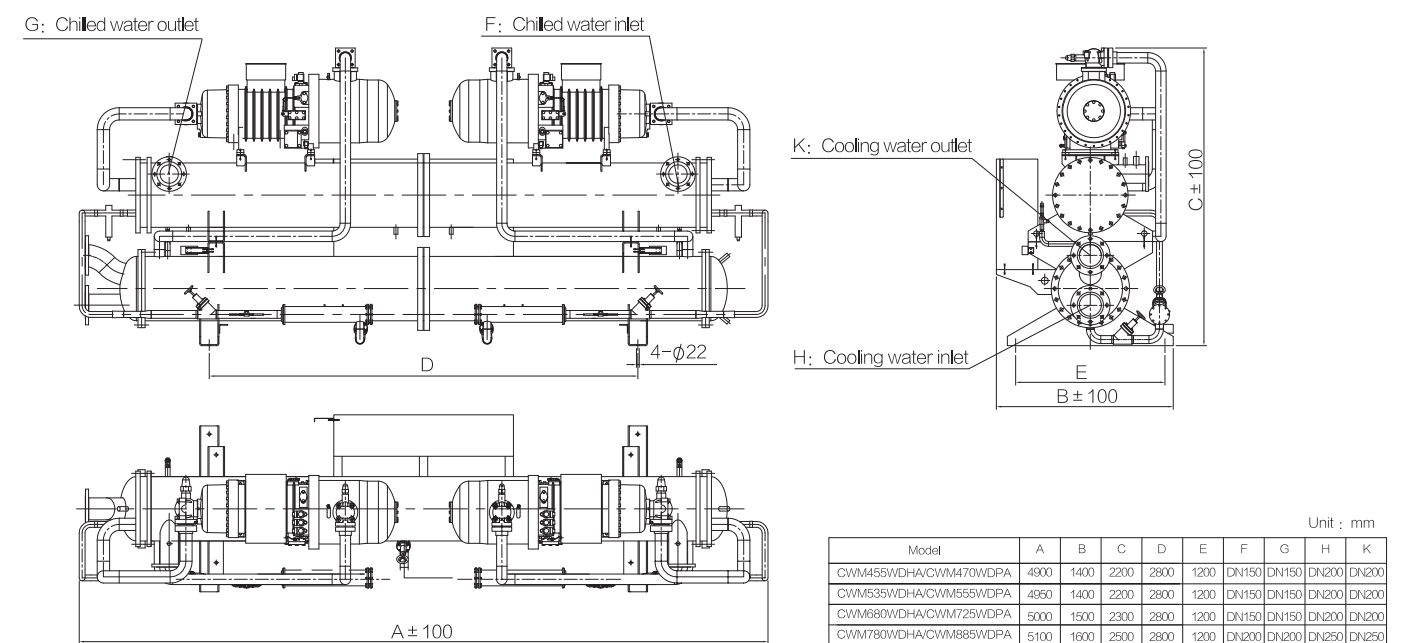


Medium-temperature water cooled dry-type brine units

CWM55 ~ 390WDHA/CWM55 ~ 440WDPA

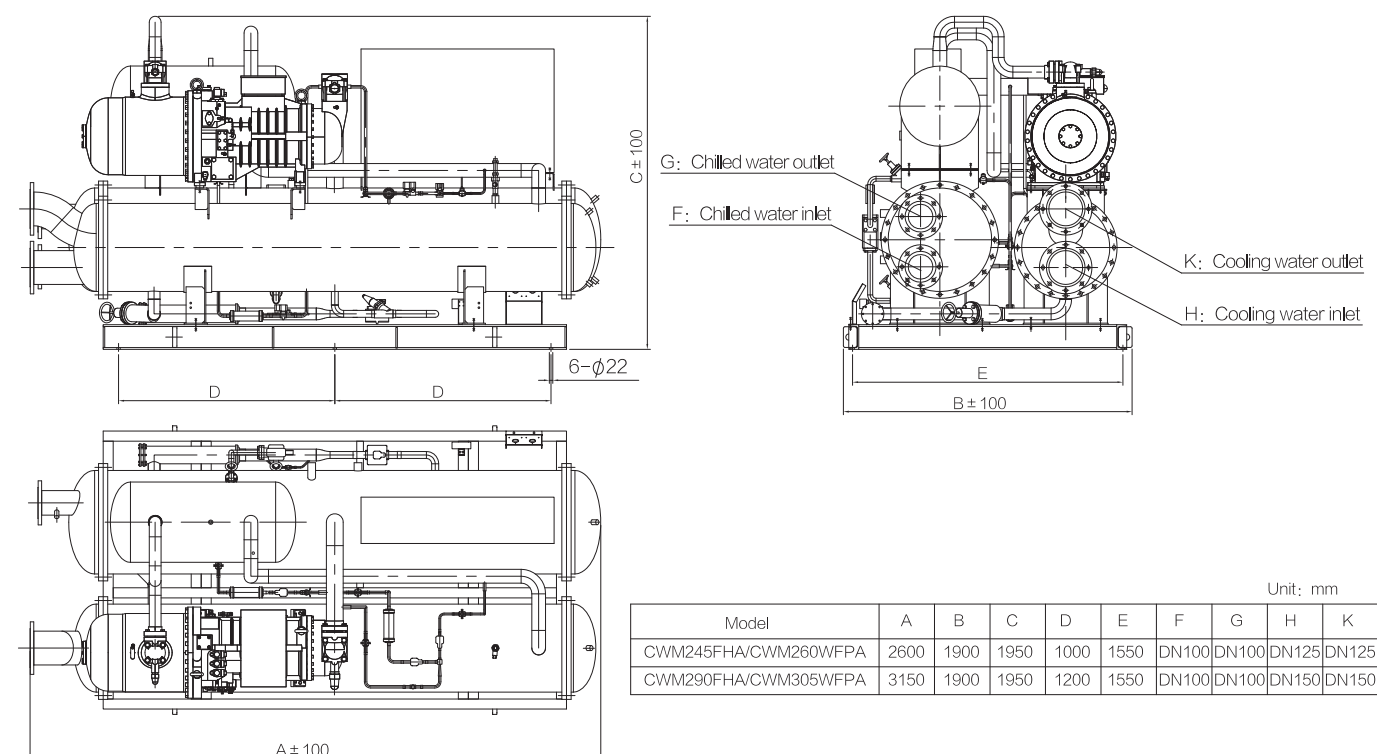


CWM455 ~ 780WDHA/CWM470 ~ 885WDPA

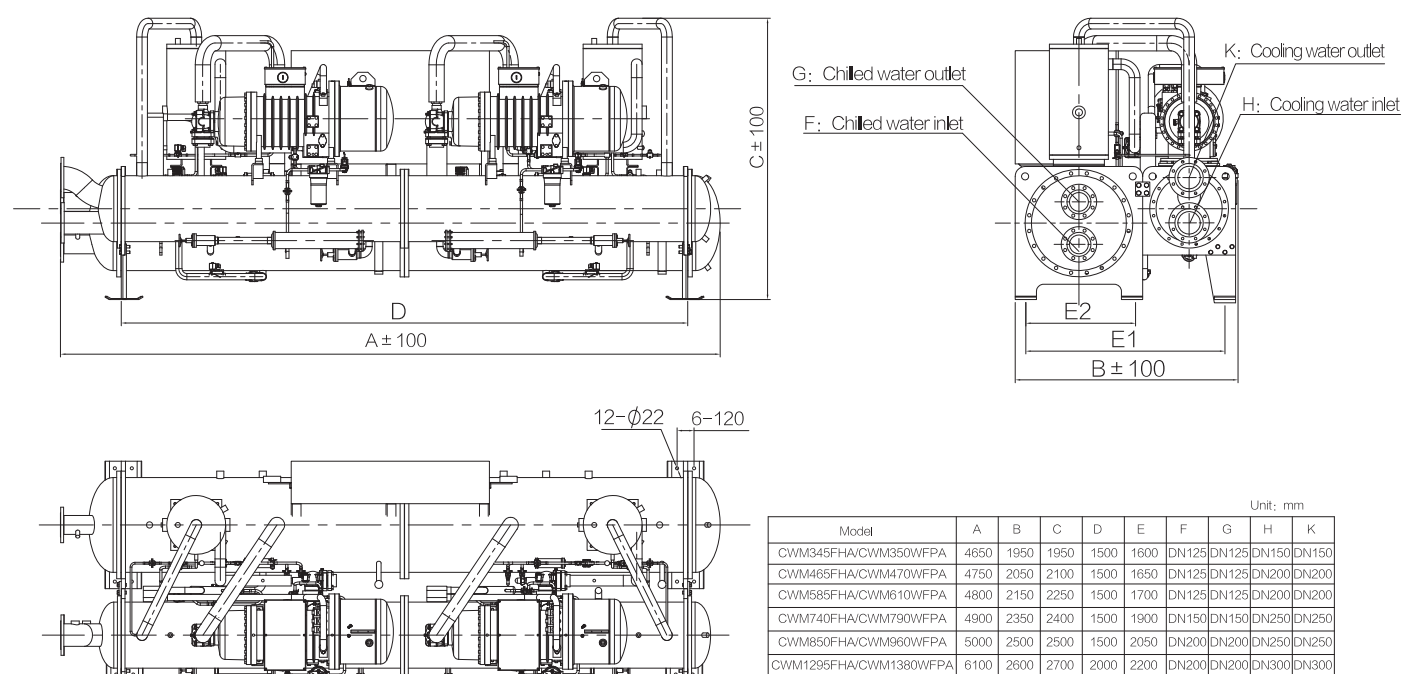


Medium-temperature water cooled flooded brine units

CWM245 ~ 290WFHA/CWM260 ~ 305WFPA

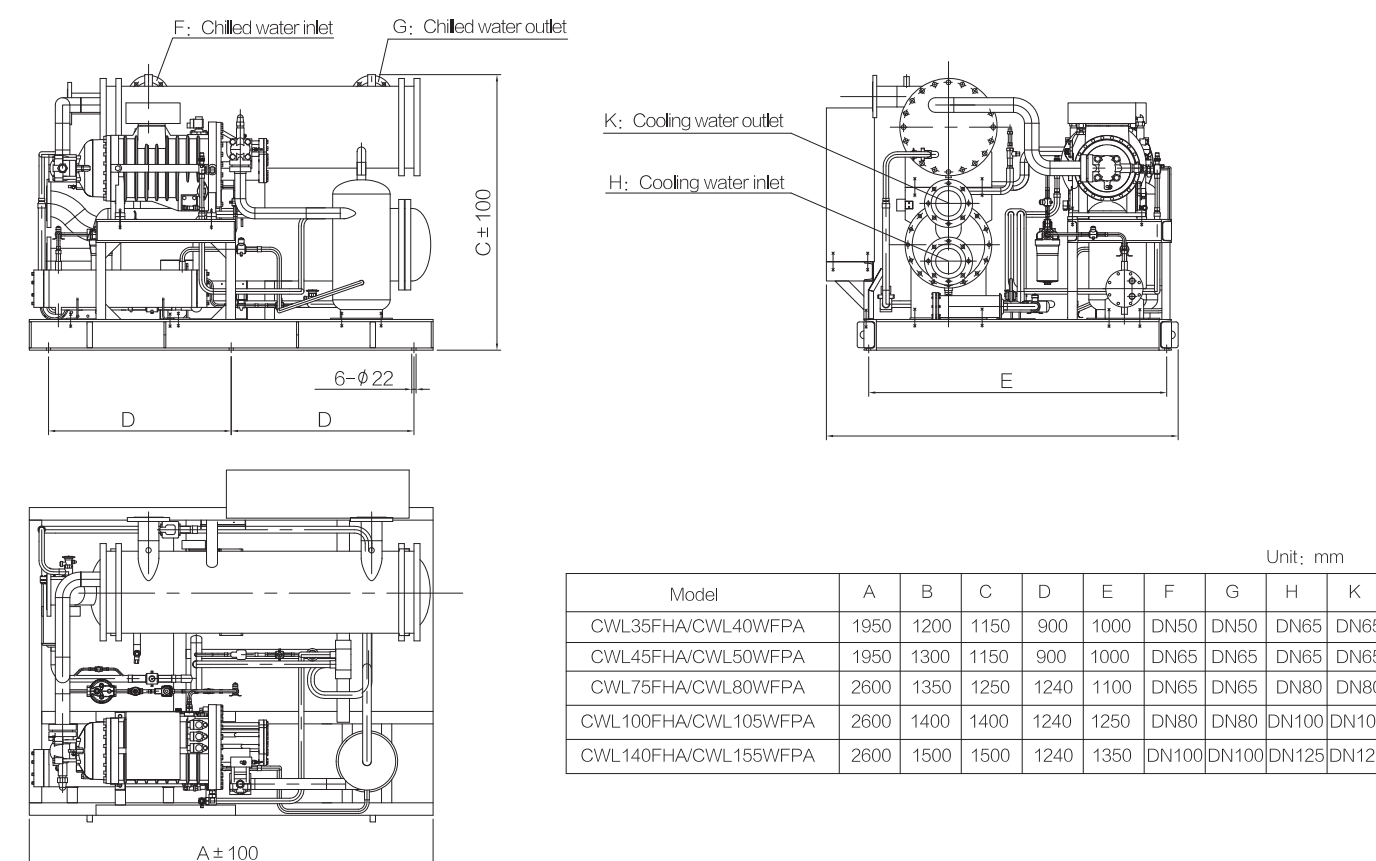


CWM345 ~ 1295WFHA/CWM350 ~ 1380WFPA

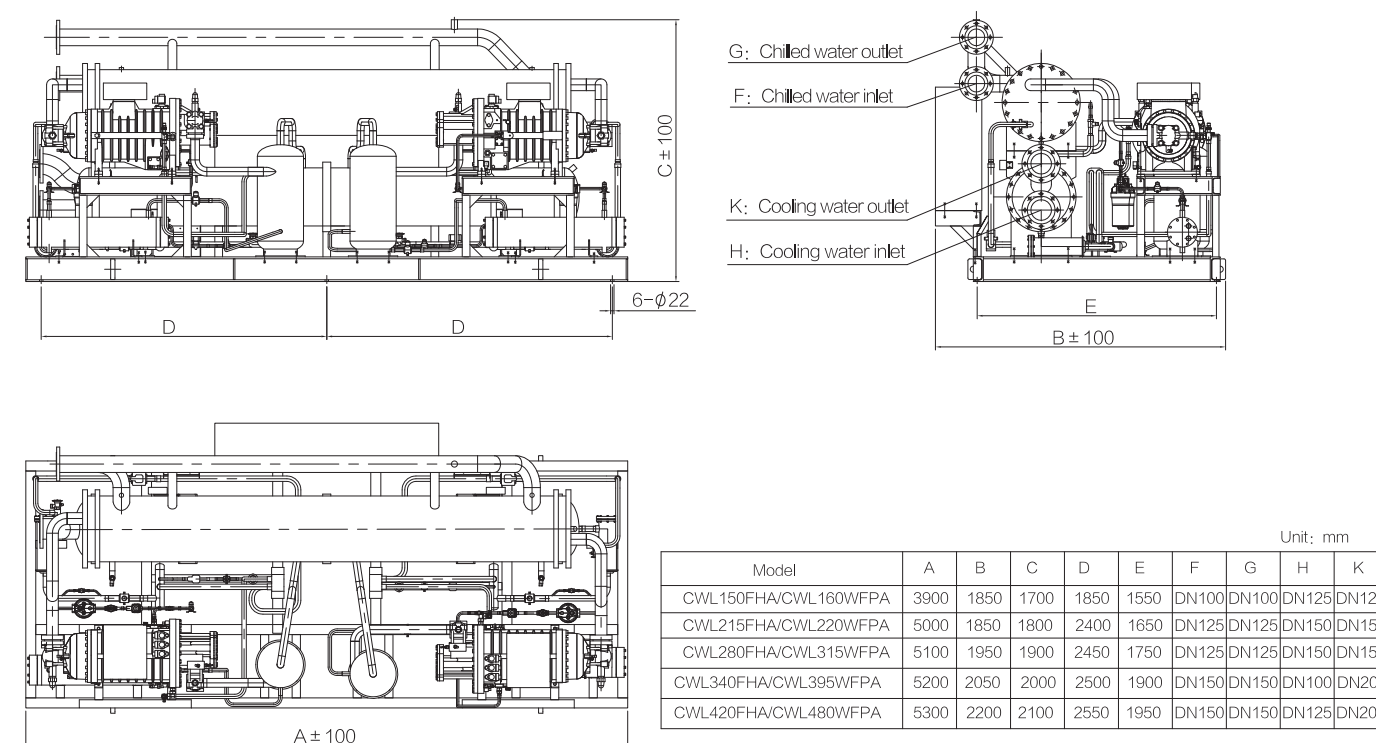


Low-temperature water cooled dry-type brine units

CWL35 ~ 140WDHA/CWL40 ~ 155WDPA



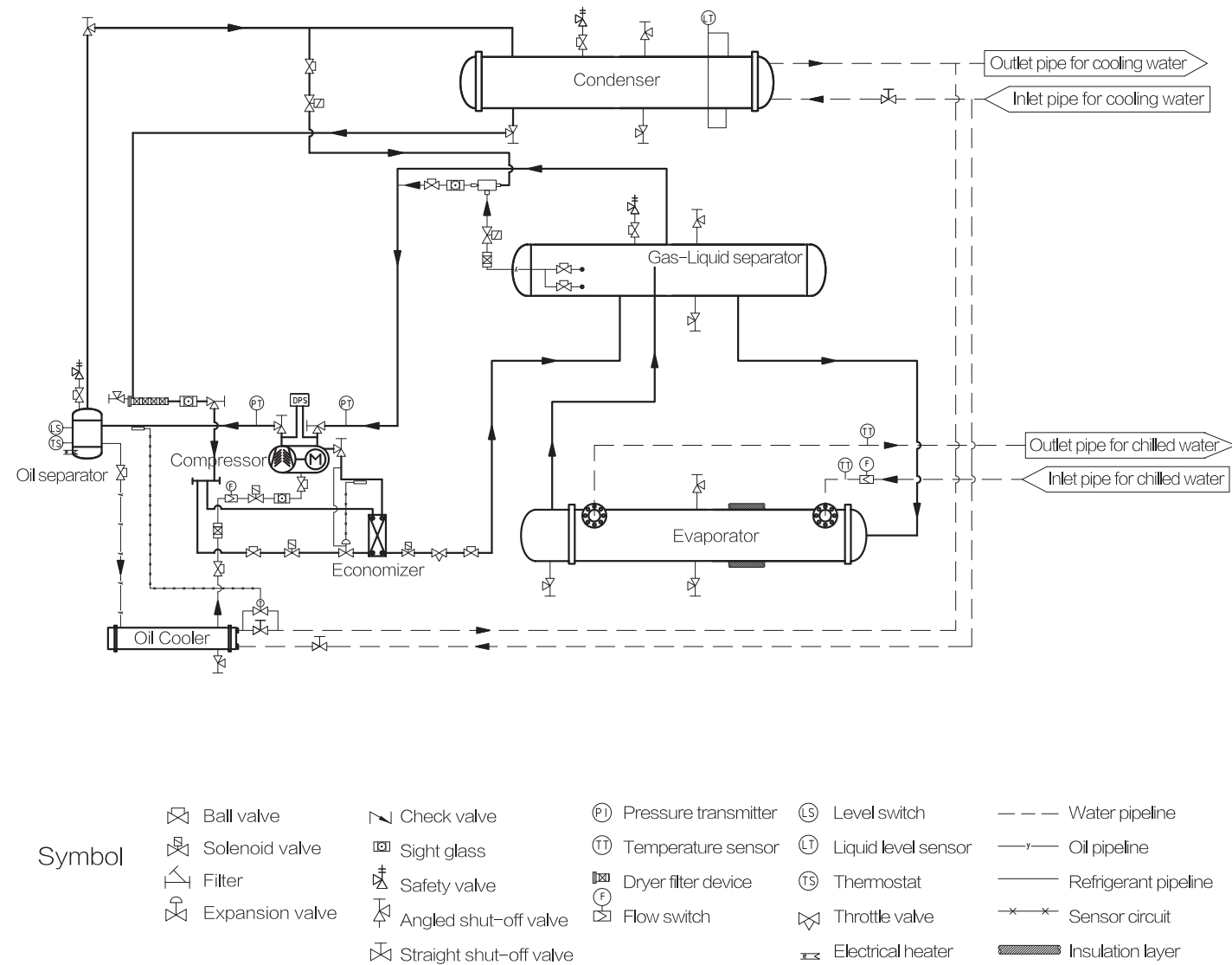
CWL150 ~ 420WDHA/CWL160 ~ 480WDPA



Thermosyphon-type brine units

In the case of outlet water temperature of brine units under -25°C , due to the viscosity of secondary coolants, either dry-type or thermosyphon-type evaporators can be used. The system diagram is as below. Clients can consult out company for specific parameters and unit dimensions if necessary.

Thermosyphon-type brine unit system diagram



Application area of units

