WATER COOLED CHILLER With SCREW COMPRESSOR

FOCSWATER Series
180-3400kW

EUROVENT CERTIFIED PERFORMANCE

r HFC R-134a

CLIMAVENETA

Core Technical Concept

Energy efficiency
Comfort and reliability
Customer-made approach
Environmental respect

The EUROVENT Certification guarantees that the products have been submitted to independent checking and that they have been accurately rated, which is issued by “European Association of Air Handling and Refrigerating Equipment Manufacturers”. The end users who purchase EUROVENT marked products will have confidence that equipment will operate in accordance with the design specifications, the energy cost will be correctly stated and therefore the supplied product will correspond to the initial investment.

FOCSWATER series screw type water cooled chiller is the updated products of Climaveneta with Eurovent certified. It's equipped with latest W3000 microprocessor, HFC134a refrigerant, new designed hi-efficiency heat exchanger. The optimized design makes the system more compatible, higher efficiency, more environment friendly and reliable. So the unit can meet the need of the hotel, hospital, business and office building.

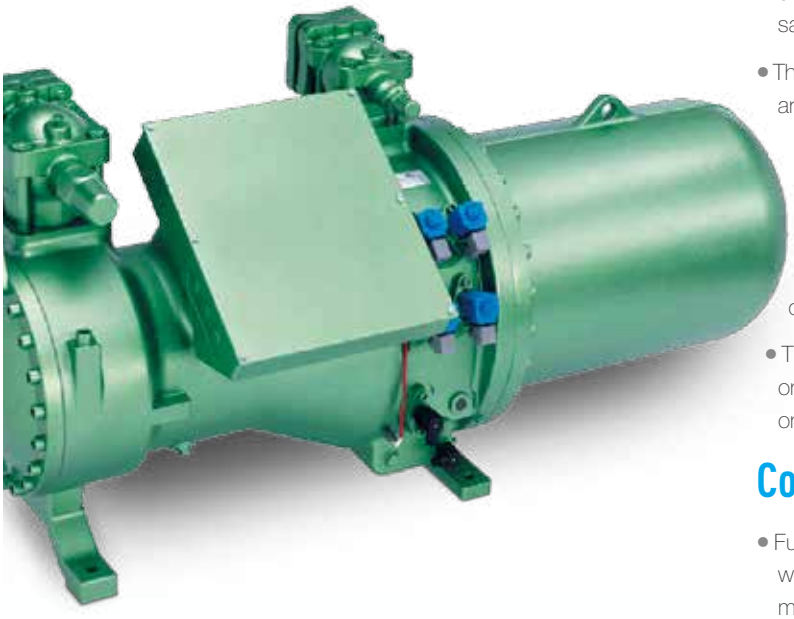
Flooded type evaporator, condenser

- The copper tube of flooded type evaporator are completely dipped inside the boiling liquid refrigerant. Thanks to this design, the unit performance and COP are enhanced obviously;
- Super high efficiency copper tube are designed with patent technology. The external screw on the tube increases the evaporation of the refrigerant and is beneficial for the drop condensation, so it reduces the heat transfer temperature difference between tube internal surface and external surface effectively;
- In order to achieve perfect water perturbation and turbulent heat transfer, the internal surface of the copper tube is also special designed;
- Because the chilled water flows inside the tube, it's quite easy to clean and maintenance.

WATER COOLED CHILLER WITH SCREW COMPRESSOR

Screw Compressor

- Semi-hermetic twin screw compressors with special designed for HFC 134a,featuring in high efficiency compression and operation under full load and part load condition;
- Precisely manufactured twin rotor and aerospace-grade bear result in reliable performance, low noise and stable operation;
- Direct-drives motor and least moving part make whole the unit without other energy lost which also contribute to better operation efficiency;
- According to the actual operation condition, the system model can be adjusted by dedicated Microprocessor. And the slide valve fulfills the stepless control to enhance the efficiency under part load condition.



High Stability

- The chiller is strictly designed, manufactured and tested based on international or national standard, such as AHRI、EN、UNI、JIS and GB/ T18430.1
- The built-in 3-stage oil separator and external 2-stage oil separator are dedicated for the best performance of gas-oil separation.
- The unique oil return kit are used to makes sure the performance.
- Each unit is fully tested by strict process for best reliability and to meet customer's request.
- The protection level of unit external panel comply with GB4208-2008 standard.

Electric Expansion Valve

The electric expansion valve is featured by its precise control, high sensitivity and well adaption to the part load condition. So CLIMAVENETA cooperate with world leader supplier for best performance both for full load and part load condition.

Safety of Electrical Devices

- The electric system is designed based on IEC60204-1-2005/ GB5226.1-2008 standard. And the system comply with the EMC standard.
- The unit main power is inter locked with the bar breaker on the electric panel door. This special design aims to make sure the safety of the maintenance engineer.
- The electric component, such as the phase fault, phase unbalance, are all standard configuration for the chiller.

Easy Installation

- Compact design for floor area saving.
- The unit is oil and refrigerant charged before delivery, and it's completely factory tested under all range loading.
- The pressure difference type water flow switch is already installed on the chiller before delivery (we suggest to install water flow switch on piping.

Convenient Maintenance

- Full computer controlling, menu displaying, unit self-checking as well as the load adjusting and safety is completely controlled by the microprocessor. Daily operation is only to switch on the unit.
- Multi-circuit design are better for standby request of the system
- The unit is available for functions such as fault protection, memorizing and alarming. All faults are clearly displayed.
- Each circuit has the check valve and "Pump Down" function for easy repairing.

Environment Friendly

- Adopting HFC134a
- Optimized refrigerant system for better electric saving, lower CO_2 emission and higher operation efficiency.

r HFC R-134a

Latest control system

The chiller adopts a new control system with a friendly humanmachine interface, excellent controls and adjustments ability, strong capabilities of function expansion, monitoring and management, as well as strong compatibility. The chiller also contains several optional accessories, and adds remote and group control functions.

Friendly human-machine interface

The operation screen is embedded in the unit for easy operation and good protection. The automatic control by the computer realizes unattended operation.

LCD screen can display data and parameter adjustment in various languages and menus. According to the tradition of Climaveneta, the status and parameters of the compressor are visually displayed individually to make sure the operating status clear at a glance.

Unit control and operation management

The advanced microcomputer intelligent control system of W3000 contains specially designed control algorithm of Climaveneta. It highlights the energy efficiency and reliability of the unit. The balanced running time of FIFO compressor prolongs the life of machine. The automatic adjustment of the output load makes the machine more energy saving. Combining with the load shedding system of the compressor can achieve 25-100% stepless adjustment. The adjustments and settings of the operating parameters can adapt to different environments. The temperature and pressure protection using analog measurement can predict and prevent of failure and increase reliability.

Network communication and building management control

The chiller supports BMS connection and can connect to common BMS systems such as Climaveneta, De'Longhi, MODBUS, LONWORKS, BACNET and so on.

FWS network server

Microcomputer intelligent controller can be equipped with FMS network server to monitor, set and adjust parameters and control the unit operation through LAN or Internet.

Fault protection, alarm and analysis capabilities

The microcomputer intelligent controller contains perfect functions of fault protection, alarm, recording and analysis. It has protection functions of high/low pressure switch, lack of phase, reverse phase, overload, overcurrent, overheat, exhaust temperature, water flow, frost and so on. The controller also achieves fault recording and alarm display. The unique "Black Box" fault recording and analyzing system can record 400 failures and more than 200 field data before each failure. It can diagnose and remove faults rapidly to improve the technical support effect. By connecting to the Climaveneta remote service program, it can find potential failures before they occur and take proper preventive treatments.

Remote group controller

Sequencer

- LCD Visual display
- Group control and management
- Centralized control unit ON/OFF
- Pump control
- Potocols as ModBus, LonWork, Bance are optional

Remote group controller

- Touch-screen
- Group control and management
- Centralized control unit ON/OFF
- Pump control
- Potocols as ModBus, LonWork, Bance are optional

Control features

Microprocessor	W3000	Microprocessor	W3000
Remote ON/OFF dry contact	√	Energy limit	OPT
Multi-language menu	√	"Pump-down" when stopped	√
Phase sequency relay	√	ModBus communication protocol	OPT
Cumulative fault alarm	√	BACNET communication protocol	OPT
Fault code	√	Interface connection to LonWorks network	OPT
"BLACK BOX" function for alarm events	√	Pump management	OPT
Switch-on self-check	√	Spare pump management	OPT
Programming of daily/weekly program	Par.	External 4-20mA signal for water temp. setting	OPT
Evaporator inlet/outlet water temperature display	√	Remote relay control	OPT
Compressor/ circuit failure display	√	Local/Remote supervision through FWS	OPT
General unit alarms display	√	Double set-point by external contact	OPT
Water temperature proportional control	√	Set-point regulation from external signal(0-5v)	OPT
Regular programming operation	Par.	Compressor run-timer,time balance & FIFO	√
Regular double set point	Par.	Management of the compressor working hours	√

√ Standard OPT avaiable on request Par. available by modifying a value of the configuraton paramenters

Nomenclature

FOCSWATER 350 2 - R - ST

- ST — Default for std; ST for ice storage function
- R — Default for std unit; R for total heat recovey function
- 2 — Compressor Number
- 350 — Cooling capacity (RT)
- FOCSWATER — Water-cooled screw chiller

FOCSWATER3502-R

The water-cooled screw chiller with 350 RT cooling capacity and featured by HFC134a refrigerant, flooded evaporator and total heat recovery function.

Recommended Operation Range

Cooling Condition	Water Inlet Temp (℃)		Water Outlet Temp (℃)	
	Min.	Max.	Min.	Max.
Chilled Water	-	23	5	15
Cooling Water	12*	-	26	48

Remark:

1. "*" means the optional cooling water control is required, if the cooling water temperature is lower than the value;
2. For other operation condition which is exceed the range above, please contact Climaveneta office for detail information.

General Technical Data

FOCSWATER		0551	0701	0851	0951	1101	1301	1651	2001	2101	2501	3002	3502	4002	4102	4512	5012	6004	7004	8004	8204	9024	10024
Cooling Performance																							
Cooling capacity	kW	189.0	251.0	307.0	339.0	385.0	461.0	594.0	693.0	744.0	840.0	1066.0	1222.0	1387.0	1455.0	1527.0	1695.0	2132.0	2444.0	2774.0	2910.0	3054.0	3390.0
Power input	kW	34.7	45.6	55.7	59.7	67.8	81.4	103.0	120.0	131.0	148.0	186.0	208.0	236.0	248.0	260.0	289.0	372.0	416.0	472.0	496.0	520.0	578.0
Evap. water flow	m^3/h	32.5	43.2	52.9	58.3	66.2	79.2	102.2	119.2	127.8	144.4	183.2	210.2	238.7	250.2	262.8	291.6	366.5	420.5	477.4	500.4	525.6	583.2
Evap. water pressure drop	kPa	44.8	52.1	51.3	54.3	53.0	47.0	50.6	51.8	47.3	48.0	51.1	51.7	52.4	47.0	49.7	51.0	59.3	59.4	58.3	54.3	59.4	60.6
Cond. water flow	m^3/h	40.7	54.0	65.9	72.7	82.8	99.4	127.8	149.0	159.8	180.7	229.0	262.8	298.1	312.8	328.3	363.6	457.9	525.6	596.2	625.7	656.6	727.2
Cond. water pressure drop	kPa	64.7	65.7	63.6	66.3	66.5	62.9	64.7	64.0	57.5	60.3	63.0	65.5	64.9	56.7	53.9	67.8	70.7	74.4	69.7	65.3	72.0	71.5
Microprocessor		W3000																					
Compressor No.	n	1	1	1	1	1	1	1	1	1	1	2	2	2	2	2	2	4	4	4	4	4	4
Circuit No.	n	1	1	1	1	1	1	1	1	1	1	2	2	2	2	2	2	4	4	4	4	4	4
Capacity regulating		25-100% Stepless										12.5-100% Stepless						6-100% Stepless					
HFC134a charged	kg	65	70	75	80	85	117	126	132	166	160	250	280	296	312	309	360	500	560	592	624	618	720
Oil	kg	15	15	22	19	19	30	30	30	32	32	60	60	60	62	62	64	120	120	120	124	124	128
Unit weight	kg	1825	1870	2215	2240	2320	2930	3090	3360	3450	3690	6020	6490	6660	7050	7110	7560	12290	13220	13560	14600	14720	15180
Operation weight	kg	1900	1960	2320	2350	2450	3080	3320	3580	3730	3990	6500	7070	7300	7760	7820	8360	13410	14380	14840	16020	16140	16076
Dimension																							
Length	mm	2940	2940	2940	2940	2940	2950	2950	2950	3000	3010	4450	4490	4490	4585	4670	5280	4900	4950	4950	4990	4990	5840
Width	mm	1180	1180	1180	1180	1180	1180	1180	1190	1190	1280	1270	1270	1270	1320	1320	1320	2660	2660	2660	2760	2760	2770
Height	mm	1870	1870	1870	1870	1870	1970	1970	2100	2100	2200	2210	2250	2280	2420	2420	2420	2260	2260	2280	2420	2420	2420

Remarks:

1. Cooling model: Chilled water (in/out)=-/7℃ , unit water flow 0.172m^3/(h·kW); Condenser water (in/out)=30/-℃ , unit water flow 0.215m^3/(h·kW);
2. Standard water side pressure of evaporator and condenser is 1.0MPa. 1.6MPa or 2.0MPa is optional;
3. If the condenser directly takes use of river water or seawater, please consult with CLIMAVENETA engineer.

Chiller with Ice Storage System

By using the anti-freeze solution as Ethylene Glycol, Propylene Glycol Mixture as the chilled water, Climaveneta chiller is suit to low temperature application like ice storage and industry cooling process.

General Technical Data of Ice Storage System

Model	Nomal cooling		Evaporator		Condenser		Ice storage (a)		Ice storage (b)	
	Cooling capacity kW	Power input kW	Water flow m^3/h	Press. drop kPa	Water flow m^3/h	Press. drop kPa	Cooling capacity kW	Power input kW	Cooling capacity kW	Power input kW
FOCSWATER0551-ST	180.3	34.8	33.8	53.0	36.9	50.6	107.3	29.4	91.0	28.7
FOCSWATER0701-ST	238.5	45.7	44.7	60.5	48.8	49.7	141.9	38.7	120.3	37.8
FOCSWATER0851-ST	299.1	55.8	56.1	62.7	60.9	49.7	179.5	47.2	152.5	46.0
FOCSWATER0951-ST	323.6	60.9	60.7	63.2	66.0	49.6	194.9	51.5	165.9	50.3
FOCSWATER1101-ST	367.6	69.5	68.9	62.2	75.0	47.8	221.4	58.7	188.4	57.4
FOCSWATER1301-ST	449.6	82.2	84.3	62.4	91.3	52.4	267.6	69.0	226.9	67.2
FOCSWATER1651-ST	578.5	103.4	108.4	66.8	117.0	53.0	344.3	85.5	292.0	82.9
FOCSWATER2001-ST	675.7	120.5	126.7	65.9	136.7	53.8	402.2	99.6	341.0	96.6
FOCSWATER2101-ST	725.0	131.0	135.7	61.6	146.9	48.5	419.0	114.0	370.0	102.0
FOCSWATER2501-ST	818.3	148.6	153.4	65.5	165.9	52.6	486.8	122.2	412.3	118.0
FOCSWATER3002-ST	1038.3	186.1	194.6	67.7	210.1	51.7	617.9	156.4	523.8	152.8
FOCSWATER3502-ST	1190.4	213.0	223.1	67.6	240.9	54.0	708.2	176.3	600.5	170.9
FOCSWATER4002-ST	1351.5	241.0	253.3	66.2	273.3	50.8	804.1	199.4	681.9	193.3
FOCSWATER4102-ST	1417.6	251.4	267.6	64.1	286.3	48.7	853.9	207.3	723.4	200.5
FOCSWATER4512-ST	1487.5	266.9	278.8	67.6	301.1	52.6	884.5	219.6	749.1	212.0
FOCSWATER5012-ST	1651.7	297.4	309.6	68.9	334.5	52.6	982.3	244.7	831.9	236.2
FOCSWATER6004-ST	2076.6	372.2	389.2	77.9	420.3	59.4	1235.8	312.8	1047.6	305.6
FOCSWATER7004-ST	2380.8	426.0	446.2	77.7	481.7	62.0	1416.4	352.6	1201.0	341.8
FOCSWATER8004-ST	2703.0	482.0	506.6	76.1	546.6	58.4	1608.2	398.8	1363.8	386.6
FOCSWATER8204-ST	2835.2	502.8	535.2	73.7	572.6	56.0	1707.8	414.6	1446.8	401.0
FOCSWATER9024-ST	2975.0	533.8	557.6	77.7	602.2	60.5	1769.0	439.2	1498.2	424.0
FOCSWATER10024-ST	3303.4	594.8	619.2	79.2	669.0	60.5	1964.6	489.4	1663.8	472.4

Remarks:

1. Normal cooling: chilled water (in/out) 12/7℃ , condenser water (in/out) 30/35℃ (25% Glycol solution);
2. Ice storage: a. chilled water (in/out) -2.3/-5.3℃ , condenser water (in/out) 30/33.5℃ (25% Glycol solution);
   b. chilled water (in/out) -5/-8℃ , condenser water (in/out) 27/29.8℃ (30% Glycol solution).

Chillers with Total Heat Recovery

While in the refrigeration unit to a lot of condensation heat as waste heat released into the atmosphere, Climaveneta with total heat recovery technology, 100% recycling of waste heat from refrigeration, heating domestic hot water, low-cost or even free for the user save a lot of hot water running costs. Heat recovery unit built-in independent circuits, independent heating hot water.

General Technical Data of Total Heat Recovery

FOCSWATER-R		0951	1101	1301	1651	1901	2351	3002	3402	3902	4302	4702
Cooling Performance												
Cooling capacity	kW	336.0	383.0	454.0	594.0	688.0	822.0	1053.0	1187.0	1377.0	1503.0	1645.0
Power input	kW	62.7	71.5	83.3	108.0	123.0	152.0	190.0	216.0	246.0	283.0	303.0
EVAP. water flow	m^3/h	16.1	18.3	21.7	28.4	32.9	39.3	50.3	56.7	65.8	71.8	78.6
EVAP. water pressure drop	kPa	47.3	48.5	46.2	51.1	49.6	48.0	50.5	48.8	49.9	50.2	49.6
Cond. water flow	m^3/h	20.1	22.9	27.1	35.4	41.1	49.1	62.9	70.9	82.2	89.8	98.2
Cond. water pressure drop	kPa	60.1	64.3	56.9	60.6	59.6	58.7	59.9	60.6	59.6	60.6	58.8
Cooling + heat recovery performance												
Cooling capacity	kW	299.0	341.0	403.0	532.0	617.0	737.0	942.0	1065.0	1235.0	136.0	1457.0
Power input	kW	75.9	86.6	101.0	131.0	150.0	184.0	227.0	262.0	299.0	340.0	380.0
Heat recovery capacity	kW	370.0	422.0	498.0	656.0	758.0	910.0	1155.0	1311.0	1516.0	1666.0	1814.0
Heat recvery water flow	m^3/h	17.9	20.4	24.0	31.6	36.6	43.9	55.8	63.3	73.2	80.4	87.6
Hot water pressure drop	kPa	47.7	51.0	44.6	48.3	47.2	47.0	47.2	48.3	47.2	48.6	46.7
Microprocessor		W3000										
Compressor No.	n	1	1	1	1	1	1	2	2	2	2	2
Circuit No.	n	1	1	1	1	1	1	2	2	2	2	2
Capacity regulating	n	25%-100% Stepless						12.5%-100% Stepless				
R134a charged	kg	99	113	137	176	200	239	311	352	400	433	478
Oil charged	kg	19	19	35	35	35	38	70	70	70	76	76
Unit weight	kg	2600	2650	3550	4000	4250	4750	7250	8150	8400	9100	9350
Operation weight	kg	2750	2850	3850	4400	4650	5250	7950	8950	9350	10200	10500
Dimension												
Length	mm	3050	3050	4500	4530	4530	4530	4600	4600	4600	4770	4770
Width	mm	1200	1200	1230	1230	1240	1340	1520	1550	1550	1770	1770
Height	mm	1950	1950	2070	2120	2200	2300	2320	2420	2420	2500	2500

Remarks:

1. Cooling model: Chilled water (in/out)=-/7℃ , unit water flow 0.172m^3/(h·kW); Condenser water (in/out)=30/-℃ , unit water flow 0.215m^3/(h·kW);
2. Heat recovery condition: chilled water outlet 7℃ , hot water (in/out) 40/45℃ ; Condenser water flow is equal to cooling condition;
3. Please contact CLIMAVENETA office for detail.

Electric Data

FOCSWATER	F.L.I (kW) Full load power absorption	F.L.A (A) Full load current	S.A (A) Starting current
0551	51	89	140
0701	66	115	202
0851	81	137	258
0951	89	155	315
1101	101	177	378
1301	122	208	415
1651	155	260	506
2001	175	335	650
2101	196	301	683
2501	216	369	845
3002	275	470	629
3502	310	520	661
4002	350	602	834
4102	371	636	871
4512	391	670	1029
5012	432	738	1077
6004*	275×2	470×2	929
7004*	310×2	520×2	971
8004*	350×2	602×2	1203
8204*	371×2	636×2	1210
9024*	391×2	670×2	1280
10024*	432×2	738×2	1465

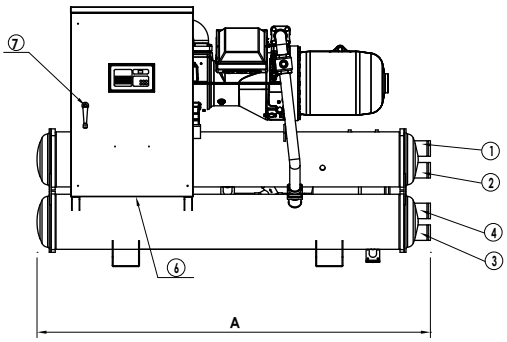
FOCSWATER-R	F.L.I (kW) Full load power absorption	F.L.A (A) Full load current	S.A (A) Starting current
0951	112	194	330
1101	128	220	358
1301	144	246	458
1651	188	322	615
1901	213	363	683
2351	260	423	917
3002	323	544	668
3402	376	644	824
3902	426	726	916
4302	480	776	1072
4702	520	846	1182

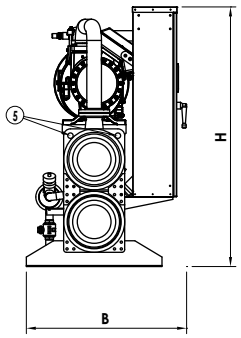
Remarks:

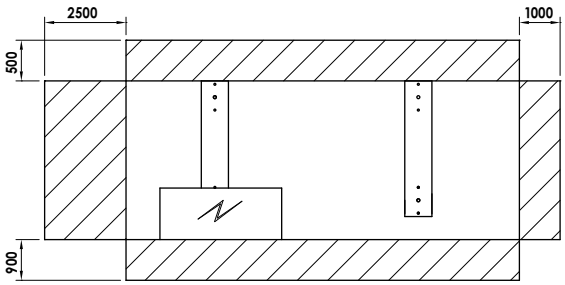
1. Electrical power input: 380-3ph-50Hz; Maximum voltage fluctuation: 10%; Maximum voltage unbalance: 3%;
2. Safety allowance should be considered when cabling the unit for power supply and line-protections;
3. 2 set power cables for the unit with "*" mark.

Dimension Drawing

FOCSWATER0551～2501







Model	Dimension			Unit Weight	Pipe Size	
	A(mm)	B(mm)	H(mm)	P./W.(Kg)	①/②	③/④
0551	2940	1180	1870	1825	3"	3"
0701	2940	1180	1870	1870	3"	3"
0851	2940	1180	1870	2215	3"	3"
0951	2940	1180	1870	2240	3"	3"
1101	2940	1180	1870	2320	3"	3"
1301	2950	1180	1970	2930	4"	4"
1651	2950	1180	1970	3090	4"	4"
2001	2950	1190	2100	3360	5"	5"
2101	3000	1190	2100	3450	5"	5"
2501	3010	1280	2200	3690	6"	6"

Remarks:

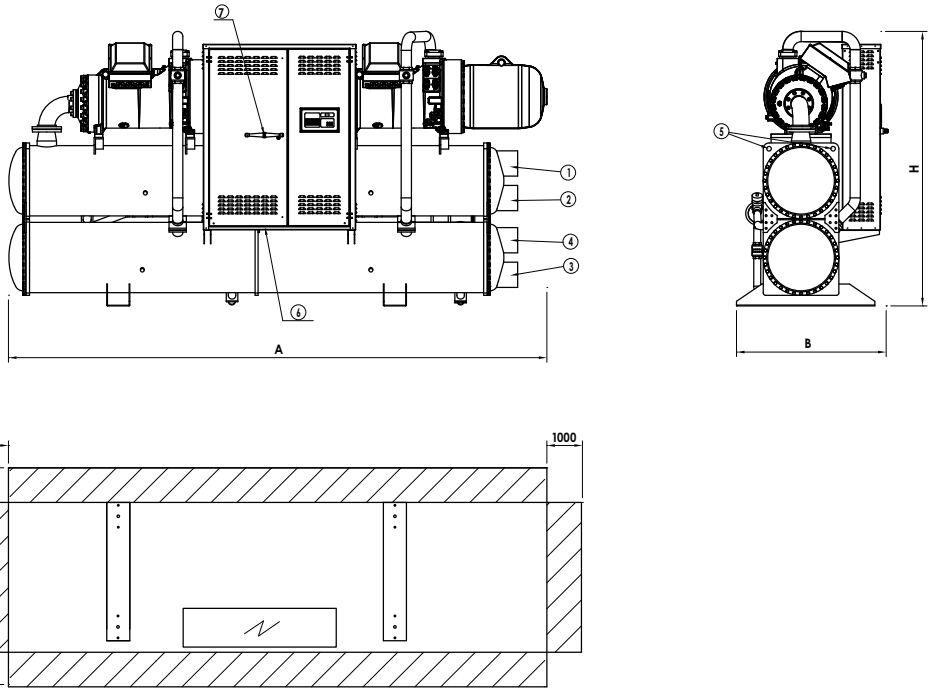
1.①Evaporator water inlet ③Condenser water inlet ⑤Lifting points ⑦Main isolator
②Evaporator water outlet ④Condenser water outlet ⑥Power inlet

2.Shadows are the maintenance clearance and pipe connector area.(If pipe connector direction need to be exchange to the opposite side, please consult local CLIMAVENETA office);

3.Please contact CLIMAVENETA office for detail drawings.

Dimension Drawing

FOCSWATER3002～5012



Model	Dimension			Unit Weight	Pipe Size	
	A(mm)	B(mm)	H(mm)	P./W.(Kg)	①/②	③/④
3002	4450	1270	2210	6020	6"	6"
3502	4490	1270	2250	6490	6"	6"
4002	4490	1270	2280	6660	6"	6"
4102	4585	1320	2420	7050	8"	8"
4512	4670	1320	2420	7110	8"	8"
5012	5280	1320	2420	7560	8"	8"

Remarks:

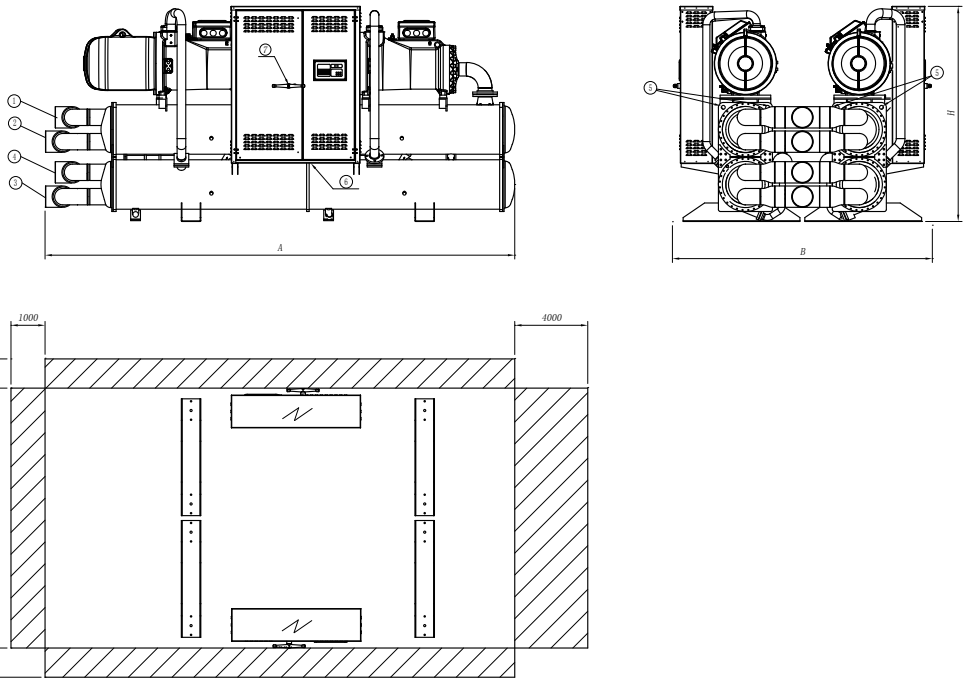
1.①Evaporator water inlet ③Condensers water inlet ⑤Lifting points ⑦Main isolator
②Evaporator water outlet ④Condensers water outlet ⑥Power inlet

2.Shadows are the maintenance clearance and pipe connector area.(If pipe connector direction need to be exchange to the opposite side, please consult local CLIMAVENETA office);

3.Please contact CLIMAVENETA office for detail drawings.

Dimension Drawing

FOCSWATER6004～10024



Model	Dimension			Unit Weight	Pipe Size	
	A(mm)	B(mm)	H(mm)	P./W.(Kg)	①/②	③/④
6004	4900	2660	2260	12290	8"	8"
7004	4950	2660	2260	13220	10"	10"
8004	4950	2660	2280	13560	10"	10"
8204	4990	2760	2420	14600	10"	10"
9024	4990	2760	2420	14720	10"	10"
10024	5840	2770	2420	15180	10"	10"

Remarks:

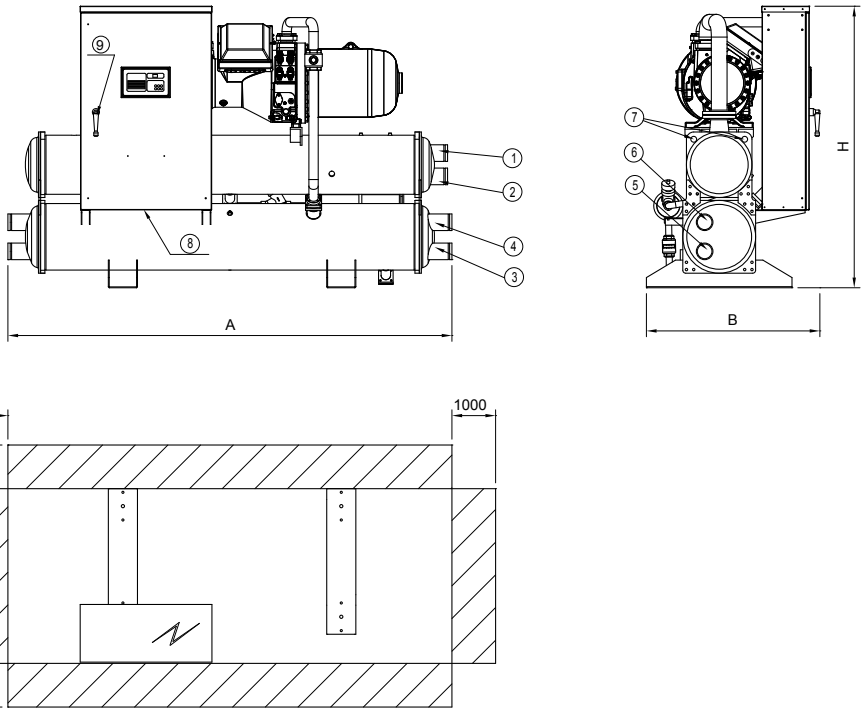
1.①Evaporator water inlet ③Condensers water inlet ⑤Lifting points ⑦Main isolator
②Evaporator water outlet ④Condensers water outlet ⑥Power inlet

2.Shadows are the maintenance clearance and pipe connector area.(If pipe connector direction need to be exchange to the opposite side, please consult local CLIMAVENETA office);

3.Please contact CLIMAVENETA office for detail drawings.

Dimension Drawing

FOCSWATER0951～2351-R



Model	Dimension			Unit Weight	Pipe Size		
	A(mm)	B(mm)	H(mm)	P./W.(Kg)	①/②	③/④	⑥/⑦
0951	3050	1200	1950	2600	4"	4"	4"
1101	3050	1200	1950	2650	4"	4"	4"
1301	4500	1230	2070	3550	4"	4"	4"
1651	4530	1230	2120	4000	4"	5"	5"
1901	4530	1240	2200	4250	5"	5"	5"
2351	4530	1340	2300	4750	6"	6"	6"

Remarks:

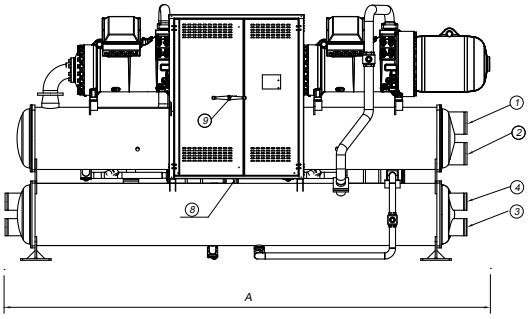
1.①Evaporator water inlet ③Condensers water inlet ⑤Heat-recovery water inlet ⑦Lifting points ⑨Main isolator
②Evaporator water outlet ④Condensers water outlet ⑥Heat-recovery water outlet ⑧Power inlet

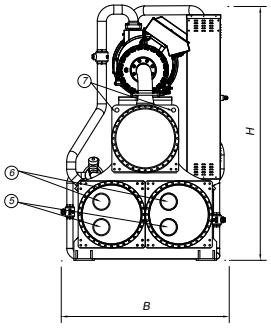
2.Shadows are the maintenance clearance and pipe connector area.(If pipe connector direction need to be exchange to the opposite side, please consult local CLIMAVENETA office);

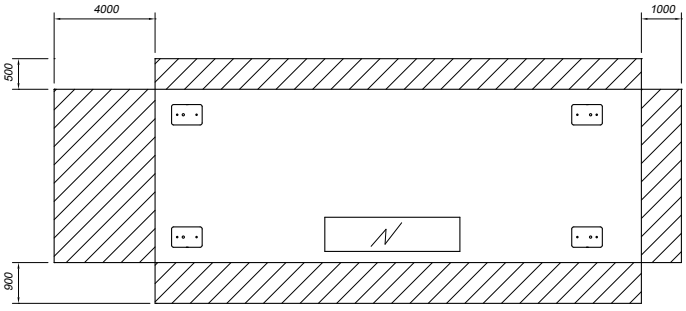
3.Please contact CLIMAVENETA office for detail drawings.

Dimension Drawing

FOCSWATER3002～4702-R







Model	Dimension			Unit Weight	Pipe Size		
	A(mm)	B(mm)	H(mm)	P./W.(Kg)	①/②	③/④	⑥/⑦
3002	4600	1520	2320	7250	6"	4"	4"
3402	4600	1550	2420	8150	6"	5"	5"
3902	4600	1550	2420	8400	6"	5"	5"
4302	4770	1770	2500	9100	8"	6"	6"
4702	4770	1770	2500	9350	8"	6"	6"

Remarks:

1.①Evaporator water inlet ③Condensers water inlet ⑤Heat-recovery water inlet ⑦Lifting points ⑨Main isolator
②Evaporator water outlet ④Condensers water outlet ⑥Heat-recovery water outlet ⑧Power inlet

2.Shadows are the maintenance clearance and pipe connector area.(If pipe connector direction need to be exchange to the opposite side, please consult local CLIMAVENETA office);

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