

OCEAN|BLUE

EVAPORATIVE CONDENSER



烟台海蓝制冷科技有限公司

YANTAI OCEANBLUE REFRIGERATION ENGINEERING CO., LTD

ABOUT US

We are a consulting and engineering company with main business line of Industrial Refrigeration products.

Ocean Blue is an energetic runner in market of Industrial Refrigeration, Freezing, and Cold Storage, focusing on offering solution and equipments with advanced technology in market of industrial refrigeration, cold storage, quick freezing and cold-chain logistics.

We offer solutions and advanced refrigeration equipments for all kinds of food processing, cooling, freezing and deep freezing projects. Our rapid growth and success can be attributed to our dedication to quality, technical expertise, cost efficiency, and high technology capabilities.

Business Goal :

World's Leading Refrigeration
Equipments Supplier
Customer-Oriented Company

Target Market :

Seafood Processing;
Fruit & Vegetable processing;
Meat processing;
Pharmaceutical
Chemical industry....



APPLICATION

Evaporative condenser is one of the most important parts of the whole refrigeration system. The condenser condenses the refrigerant gas inside the coil and complete a heat exchange circle. Evaporative condenser is widely applied to cold storage, ice-store, chemical industry, supermarket and etc.

WORKING PRINCIPLE

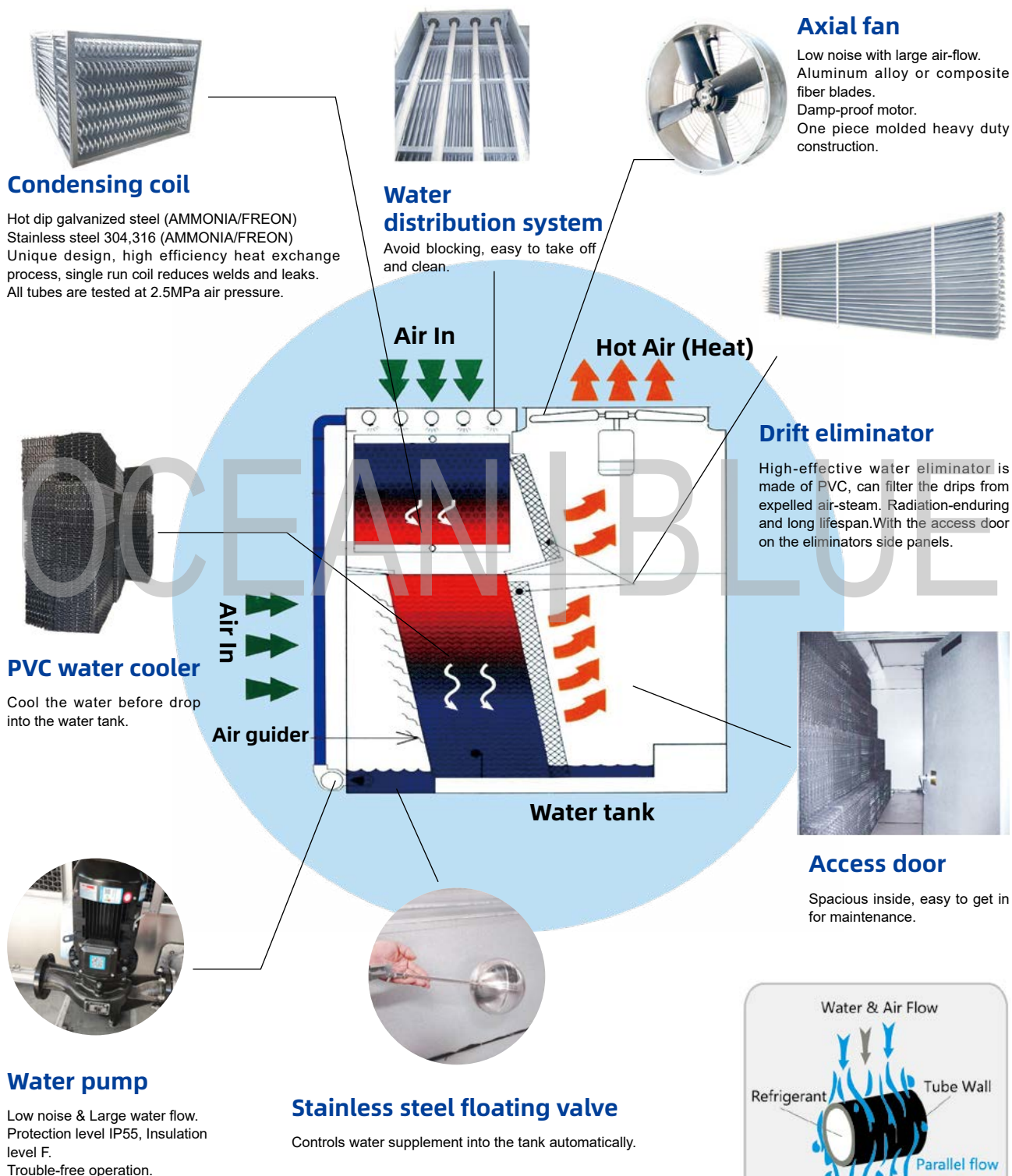
During operation, the cooling water is pumped up to the top nozzle and evenly sprayed onto the outer surface of condensing coil and form a water layer. The high temperature refrigerant gas come out from compressor and get into the condensing coils. Under a high speed wind bring by the fans on the top, the water layer on the outer surface of condensing coil evaporates and takes away the heat of the refrigerant. The refrigerant condenses into liquid and flow back to the reservoir. Some water absorb heat and become steam, the rest water drop into the water tank for re-circulation. The hot steam is blown out from top and rest vapour remain on the top water stopper. The floating valve in the tank control water supplement into the tank automatically.

FEATURES

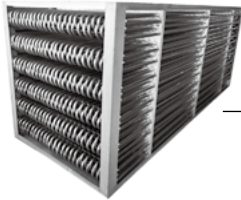
- Power-saving; Water-saving; Space-saving
- High Heat Exchange Ability
- Easy to install
- Low maintenance cost
- Long lifetime



CROSS FLOW ECB SERIES



COUNTER FLOW ECE SERIES



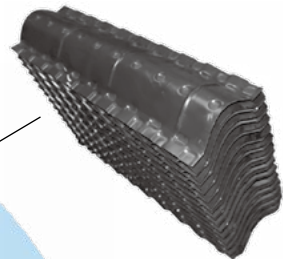
Condensing coil

Hot dip galvanized steel (AMMONIA/FREON)
Stainless steel 304,316 (AMMONIA/FREON)
Unique design, high efficiency heat exchange process, single run coil reduces welds and leaks.
All tubes are tested at 2.5MPa air pressure.



Axial fan

Low noise with large air-flow.
Aluminum alloy or composite fiber blades.
Damp-proof motor.
One piece molded heavy duty construction.



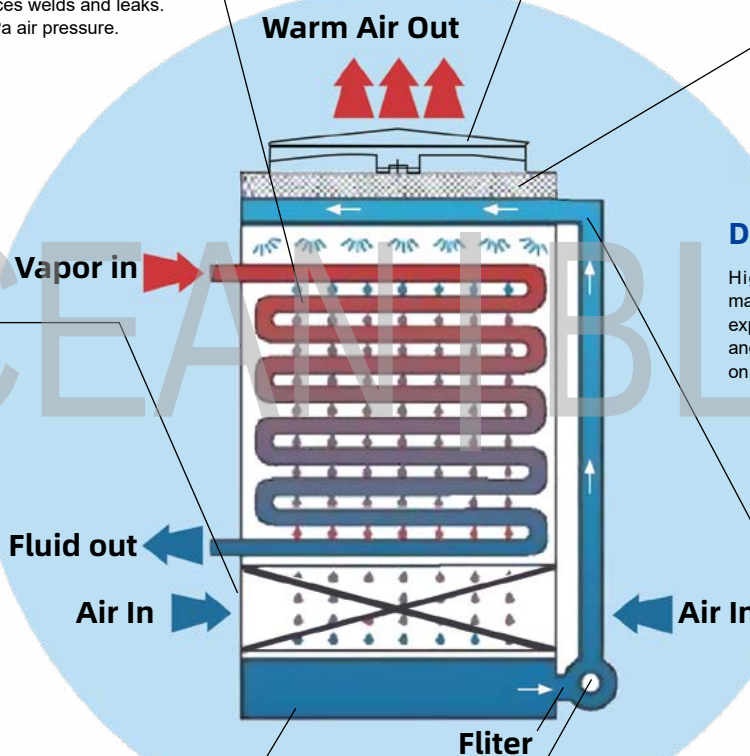
Drift eliminator

High-effective water eliminator is made of PVC, can filter the drips from expelled air-steam. Radiation-enduring and long lifespan. With the access door on the eliminators side panels.



Air inlet grille

Easy removable air inlet grating avoids sun projectivity dust and dirt comimh in.



Water distribution system

Avoid blocking, easy to take off and clean.

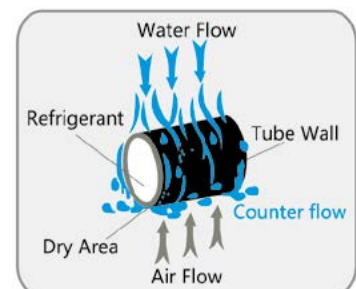


Water tank



Water pump

Low noise & Large water flow.
Protection level IP55, Insulation level F.
Trouble-free operation.



EVAPORATING CONDENSER COIL

The coil section rejects heat through the fresh air evaporating on the other side is through the sensible heat effect of pre-cooled circulating spray water. Reducing the coil's evaporative cooling effect is helpful to reduce the possibility of the coils surface scaling.

Hot dip galvanized steel (Ammonia/Freon)

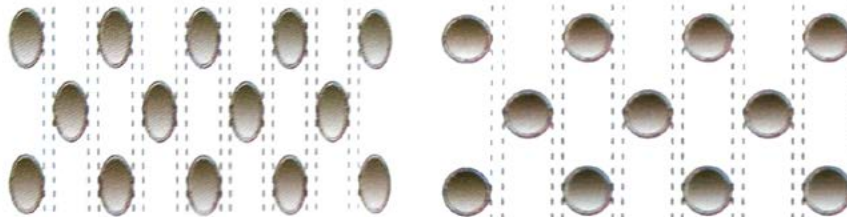


Stainless steel (Ammonia/Freon)

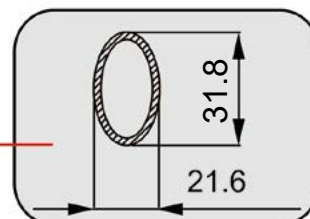


Features:

1. The oval tube volume is small, the refrigerant filling amount is small.
2. Decrease inner diameter of heat exchange tube with core compact tube arrangement can increase the heat exchange area in the same volume.
3. Special oval tube ensure a better contacting of water on the outer surface of the tubes. Also can make the form tighter, less filling rate of liquid and less air flow resistance.

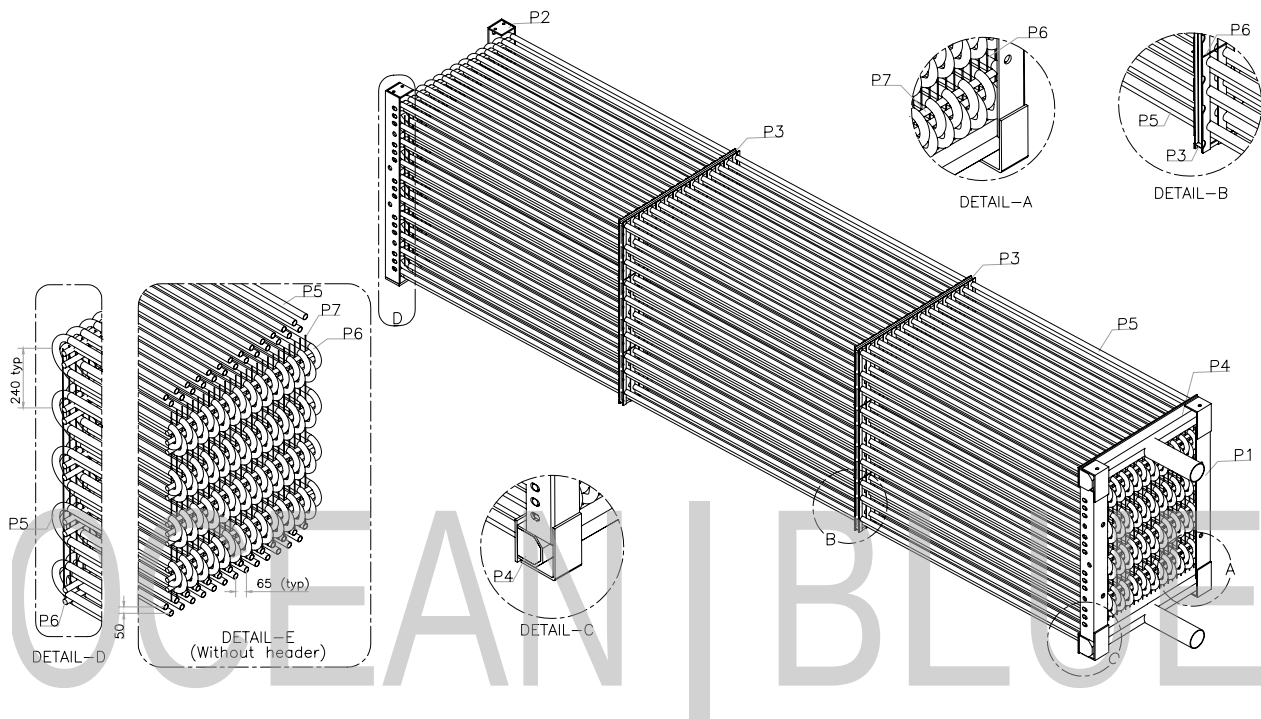


compact oval tube

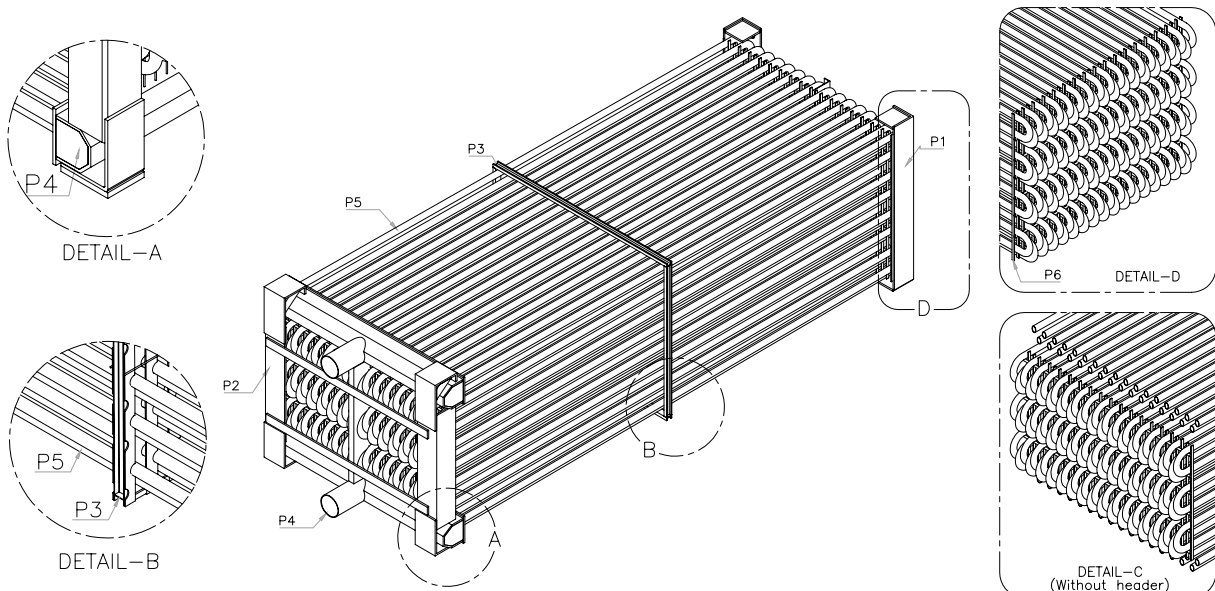


REPLACE OTHER BRANDS COIL

SERIES: VXC, CXV, WXR, CXVE, SPL, FXV



SERIES: ATC, C-ATC, ZNX, LSC, LNZ, PMC



CROSS FLOW EVAPORATIVE CONDENSER

Casing: hot dip galvanized steel, stainless steel 304, stainless steel 304L, stainless steel 316L, galvanized steel G235

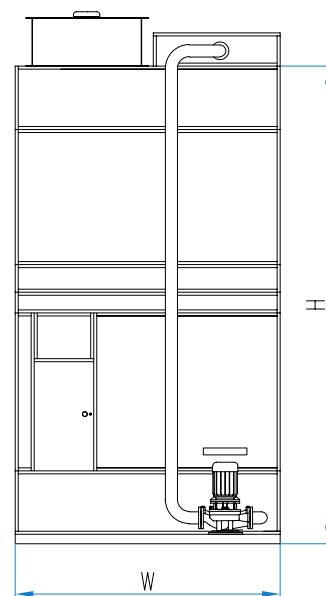
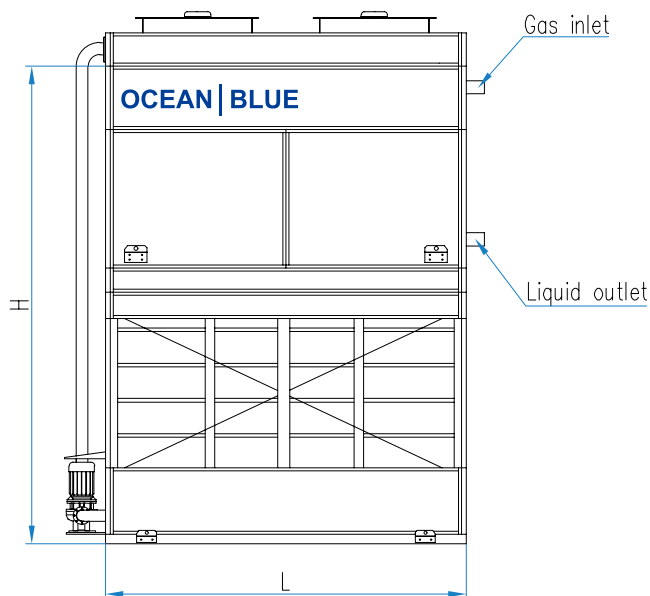
Coil: hot dip galvanized steel, stainless steel 304, stainless steel 304L, stainless steel 316L

Tube size: oval tube(31.8*21.6mm), round tube(26.7mm;25mm)



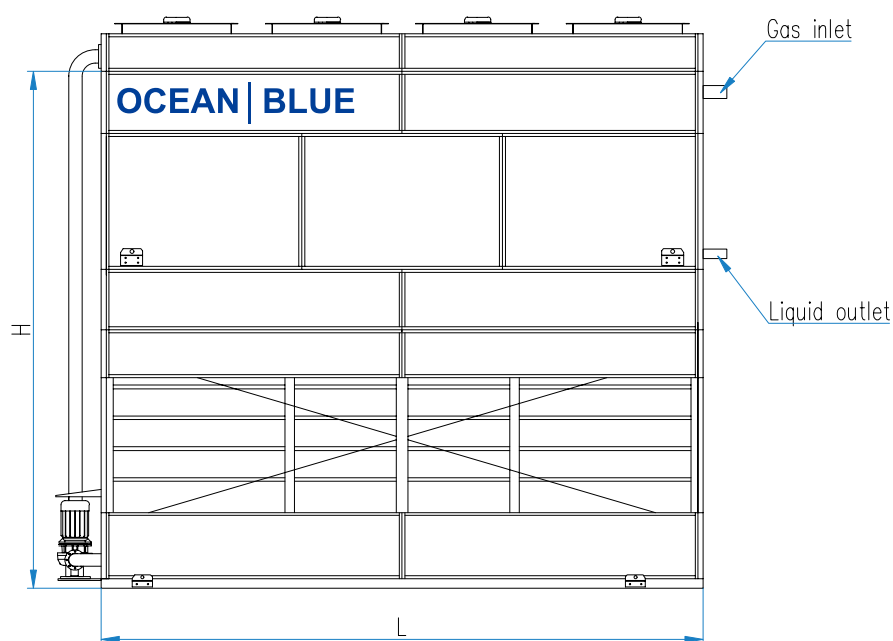
MODEL & SPECS ECB SERIES

Model	Heat Rejection (KW)	Size(mm)			Fan		Water Pump		Weight(Kg)		Gas Inlet/ Liquid outlet (mm)
		L	W	H	Air flow (m ³ /hr)	Power (Kw)	Water flow (L/s)	Power (Kw)	Transport	Operate	
ECB300	300	2460	1850	3715	56000	2.2×2	12.5	2.2	2350	3600	DN80/DN65
ECB350	350	2460	1950	3715	56000	2.2×2	12.5	2.2	2490	3850	DN80/DN65
ECB400	400	2460	2100	3715	56000	2.2×2	12.5	2.2	2630	4100	DN80/DN65
ECB450	450	2460	2150	3940	60000	2.2×2	12.5	2.2	2840	4240	DN100/DN65
ECB500	500	2700	2250	3715	60000	2.2×2	12.5	2.2	3110	4910	DN100/DN65
ECB550	550	2700	2200	3940	60000	2.2×2	12.5	2.2	3270	4980	DN100/DN65
ECB600	600	2700	2250	3940	60000	2.2×2	12.5	2.2	3440	5250	DN100/DN65
ECB650	650	3690	2100	4240	90000	2.2×3	13.9	3	3790	5680	DN100/DN65
ECB700	700	3690	2150	4240	90000	2.2×3	13.9	3	3960	5910	DN100/DN65
ECB750	750	3690	2200	4240	90000	2.2×3	13.9	3	4300	6700	DN100/DN65
ECB800	800	3690	2250	4240	90000	2.2×3	13.9	3	4470	6950	DN100/DN65
ECB850	850	4240	2150	4240	120000	2.2×4	13.9	3	4850	7350	DN100/DN65



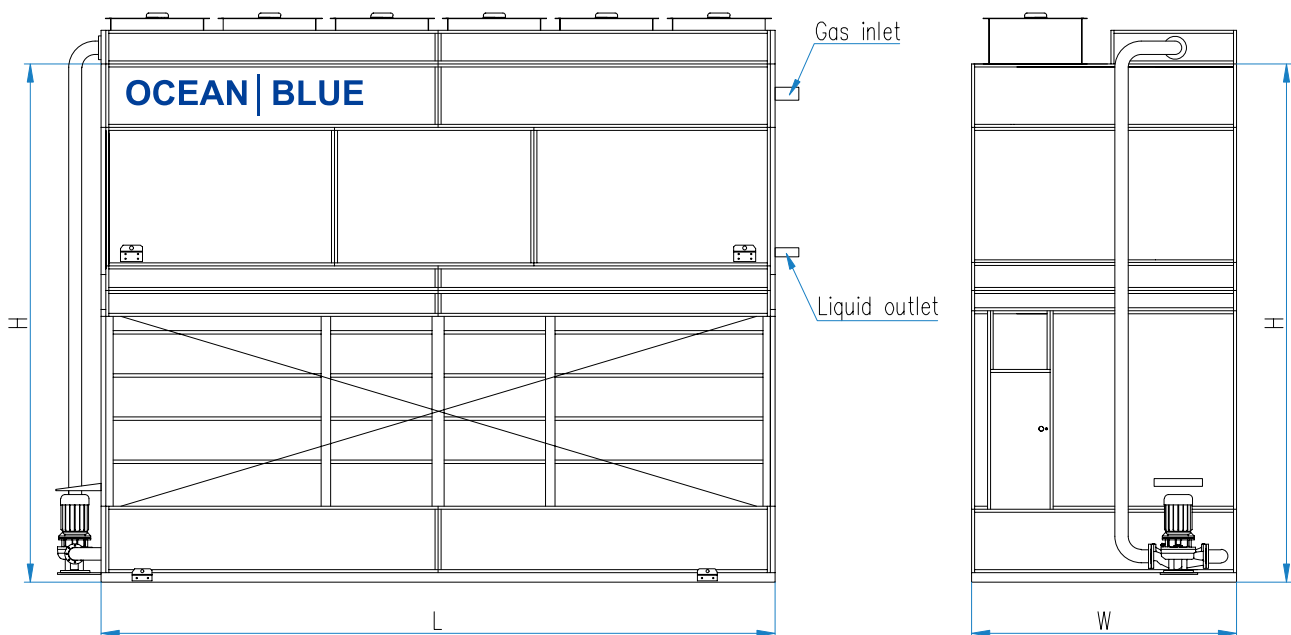
MODEL & SPECS ECB SERIES

Model	Heat Rejection (KW)	Size(mm)			Fan		Water Pump		Weight(Kg)		Gas Inlet/ Liquid outlet (mm)
		L	W	H	Air flow (m3/hr)	Power (Kw)	Water flow (L/s)	Power (Kw)	Transport	Operate	
ECB900	900	4240	2200	4295	120000	2.2×4	24.7	4	5010	7920	DN100/DN65
ECB950	950	4240	2250	4295	120000	2.2×4	24.7	4	5230	8270	DN100/DN65
ECB1000	1000	5000	2150	4295	120000	2.2×4	24.7	4	5450	8980	DN125/DN80
ECB1050	1050	5000	2200	4295	120000	2.2×4	24.7	4	5610	9260	DN125/DN80
ECB1100	1100	5000	2200	4295	120000	2.2×4	24.7	4	5770	9430	DN125/DN80
ECB1150	1150	5000	2250	4295	120000	2.2×4	24.7	4	5920	9700	DN125/DN80
ECB1200	1200	5600	2200	4320	120000	2.2×4	27.8	5.5	6280	10160	DN125/DN80
ECB1250	1250	5600	2200	4320	140000	2.2×5	27.8	5.5	6430	10400	DN100×2/DN65×2
ECB1300	1300	5600	2200	4320	140000	2.2×5	27.8	5.5	6590	10580	DN100×2/DN65×2
ECB1350	1350	5600	2200	4450	168000	2.2×6	27.8	5.5	6740	10840	DN100×2/DN65×2
ECB1400	1400	5600	2250	4450	168000	2.2×6	27.8	5.5	6900	11130	DN100×2/DN65×2
ECB1450	1450	5600	2250	4500	168000	2.2×6	27.8	5.5	7070	11320	DN100×2/DN65×2



MODEL & SPECS ECB SERIES

Model	Heat Rejection (KW)	Size(mm)			Fan		Water Pump		Weight(Kg)		Gas Inlet/ Liquid outlet (mm)
		L	W	H	Air flow (m3/hr)	Power (Kw)	Water flow (L/s)	Power (Kw)	Transport	Operate	
ECB1500	1500	5600	2250	4500	168000	2.2×6	27.8	5.5	7230	11470	DN100×2/DN65×2
ECB1600	1600	5600	2250	4570	168000	2.2×6	27.8	5.5	7500	11780	DN100×2/DN65×2
ECB1700	1700	5600	2900	4520	180000	4×3	39.7	7.5	8150	13900	DN100×2/DN65×2
ECB1800	1800	5600	3100	4520	225000	5.5×3	39.7	7.5	8410	14670	DN100×2/DN65×2
ECB1900	1900	5600	3100	4520	225000	5.5×3	39.7	7.5	8670	15060	DN100×2/DN65×2
ECB2000	2000	5600	3500	4520	255000	7.5×3	39.7	7.5	9180	16350	DN125×2/DN80×2
ECB2100	2100	5600	3500	4520	255000	7.5×3	39.7	7.5	9420	16860	DN125×2/DN80×2
ECB2200	2200	5600	3500	4520	255000	7.5×3	39.7	7.5	9650	17190	DN125×2/DN80×2
ECB2300	2300	5600	3600	4520	255000	7.5×3	39.7	7.5	9910	17580	DN125×2/DN80×2
ECB2400	2400	5600	3600	4570	255000	7.5×3	39.7	7.5	10180	18020	DN125×2/DN80×2



COUNTER FLOW EVAPORATIVE CONDENSER

Casing: hot dip galvanized steel, stainless steel 304, stainless steel 304L, stainless steel 316L, galvanized steel G235

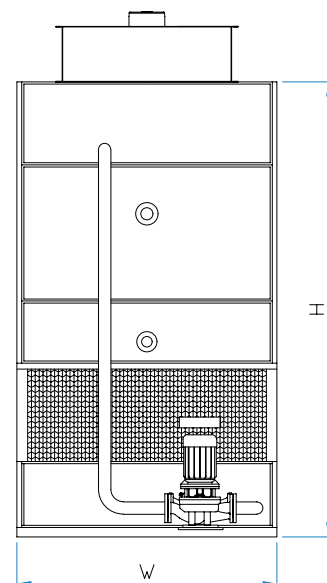
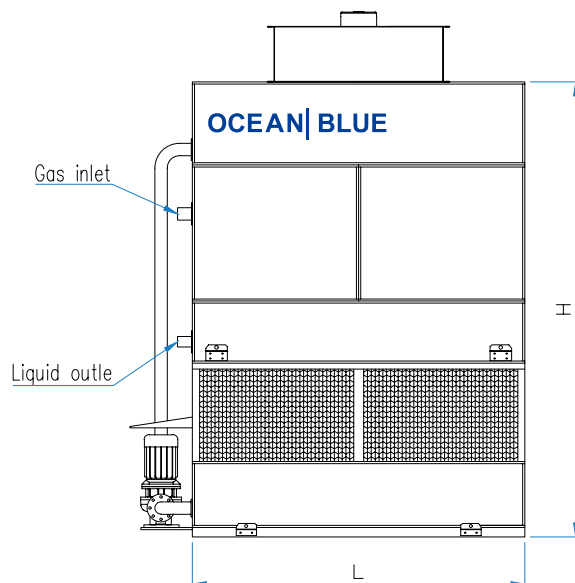
Coil: hot dip galvanized steel, stainless steel 304, stainless steel 304L, stainless steel 316L

Tube size: oval tube(31.8*21.6mm), round tube(26.7mm;25mm)



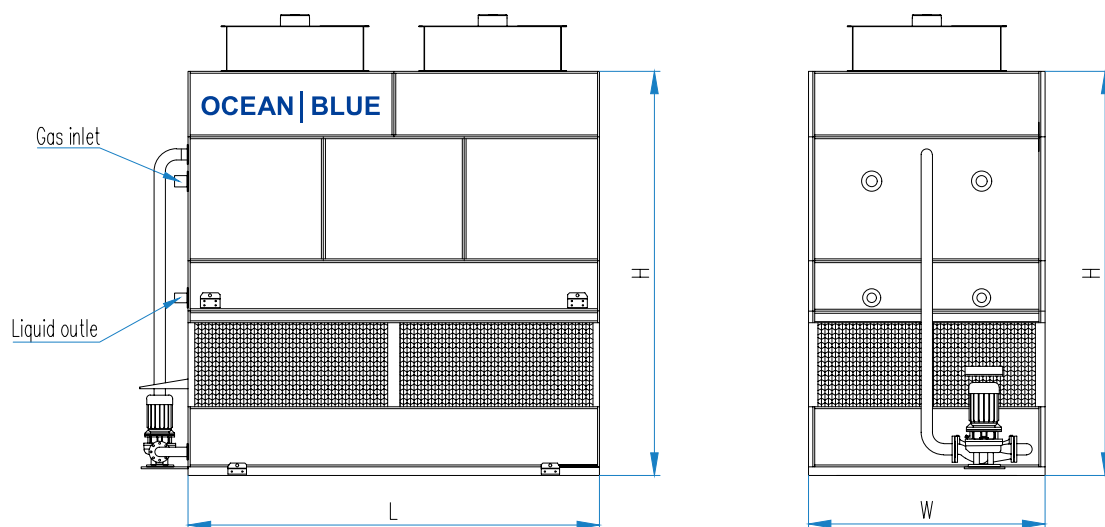
MODEL & SPECS ECE SERIES

Model	Heat Rejection (KW)	Size(mm)			Fan		Water Pump		Weight(Kg)		Gas Inlet/ Liquid outlet (mm)
		L	W	H	Air flow (m3/hr)	Power (Kw)	Water flow (L/s)	Power (Kw)	Transport	Operate	
ECE300	300	2100	1300	3200	40000	3×1	6.2	1.1	1800	2870	DN80/DN65
ECE350	350	2100	1450	3200	50000	3×1	7	1.5	1960	3160	DN80/DN65
ECE400	400	2100	1650	3300	60000	4×1	7	1.5	2130	3500	DN80/DN65
ECE450	450	2460	1550	3400	60000	4×1	7	1.5	2300	3820	DN100/DN65
ECE500	500	2460	1700	3400	60000	4×1	12.4	2.2	2460	4120	DN100/DN65
ECE550	550	2460	1950	3400	65000	5.5×1	12.4	2.2	2630	4530	DN80×2/DN50×2
ECE600	600	2460	2100	3400	75000	5.5×1	12.4	2.2	2950	5000	DN80×2/DN50×2
ECE650	650	2460	2200	3400	75000	5.5×1	12.4	2.2	3120	5280	DN80×2/DN50×2
ECE700	700	2700	2200	3500	85000	7.5×1	13.9	3	3310	5480	DN80×2/DN50×2
ECE750	750	2700	2000	3740	85000	7.5×1	13.9	3	3500	5670	DN80×2/DN50×2
ECE800	800	2700	2100	3740	100000	7.5×1	13.9	3	3600	5880	DN100×2/DN65×2
ECE850	850	2700	2200	3740	100000	7.5×1	13.9	3	3840	6230	DN100×2/DN65×2
ECE900	900	3690	2050	3650	120000	4×2	24.7	4	4100	7530	DN100×2/DN65×2
ECE950	950	3690	2150	3650	120000	4×2	24.7	4	4270	7780	DN100×2/DN65×2



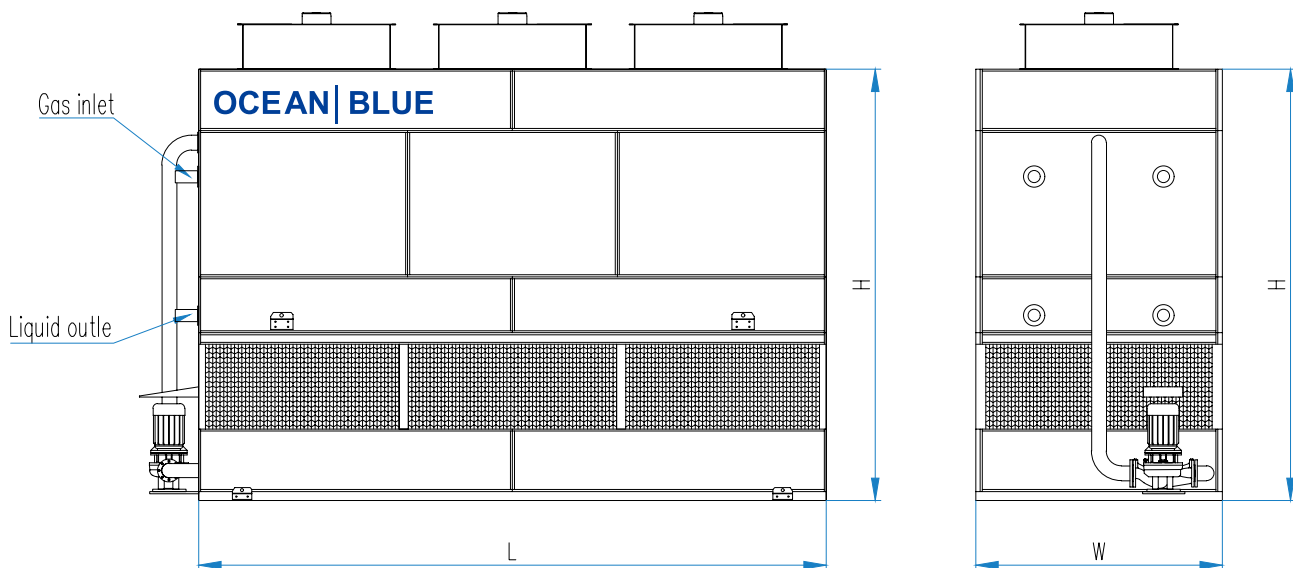
MODEL & SPECS ECE SERIES

Model	Heat Rejection (KW)	Size(mm)			Fan		Water Pump		Weight(Kg)		Gas Inlet/ Liquid outlet (mm)
		L	W	H	Air flow (m3/hr)	Power (Kw)	Water flow (L/s)	Power (Kw)	Transport	Operate	
ECE1000	1000	3690	2250	3650	120000	4×2	24.7	4	4400	7880	DN100×2/DN65×2
ECE1050	1050	3690	2000	3740	130000	5.5×2	24.7	4	4610	8520	DN100×2/DN65×2
ECE1100	1100	3690	2050	3740	130000	5.5×2	24.7	4	5130	9240	DN100×2/DN65×2
ECE1150	1150	4240	2200	3800	150000	5.5×2	24.7	4	5300	9300	DN100×2/DN65×2
ECE1200	1200	4240	2250	3800	150000	5.5×2	24.7	4	5550	9560	DN100×2/DN65×2
ECE1250	1250	4240	2050	4000	150000	5.5×2	24.7	4	5730	9660	DN100×2/DN65×2
ECE1300	1300	4240	2100	4000	150000	5.5×2	24.7	4	5980	10020	DN100×2/DN65×2
ECE1350	1350	4240	2200	4000	150000	5.5×2	24.7	4	6160	10210	DN100×2/DN65×2
ECE1400	1400	5000	2250	3800	170000	7.5×2	24.7	4	6540	10730	DN100×2/DN65×2
ECE1450	1450	5000	2000	4000	170000	7.5×2	27.8	5.5	6720	10970	DN100×2/DN65×2
ECE1500	1500	5000	2050	4000	170000	7.5×2	27.8	5.5	6900	11540	DN100×2/DN65×2
ECE1600	1600	5000	2200	4000	170000	7.5×2	27.8	5.5	7520	12520	DN100×2/DN65×2
ECE1700	1700	5600	2100	4000	200000	7.5×2	27.8	5.5	7910	13250	DN100×2/DN65×2



MODEL & SPECS ECE SERIES

Model	Heat Rejection (KW)	Size(mm)			Fan		Water Pump		Weight(Kg)		Gas Inlet/ Liquid outlet (mm)
		L	W	H	Air flow (m3/hr)	Power (Kw)	Water flow (L/s)	Power (Kw)	Transport	Operate	
ECE1800	1800	5600	2200	4000	225000	5.5×3	27.8	5.5	8640	14250	DN100×2/DN65×2
ECE1900	1900	5600	2250	4000	225000	5.5×3	39.7	7.5	8890	14680	DN125×2/DN80×2
ECE2000	2000	5600	2150	4250	225000	5.5×3	39.7	7.5	9240	15340	DN125×2/DN80×2
ECE2100	2100	5600	2200	4250	266000	11×2	39.7	7.5	9680	16100	DN125×2/DN80×2
ECE2200	2200	5600	2250	4250	266000	11×2	39.7	7.5	9970	16690	DN125×2/DN80×2
ECE2300	2300	5600	2750	4050	266000	11×2	49.4	4×2	10250	17300	DN125×2/DN80×2
ECE2400	2400	5600	2850	4050	300000	11×2	49.4	4×2	10580	17930	DN125×2/DN80×2
ECE2500	2500	5600	3000	4050	300000	11×2	49.4	4×2	10880	18500	DN125×2/DN80×2
ECE2600	2600	5600	3100	4050	340000	15×2	49.4	4×2	11230	19130	DN125×2/DN80×2
ECE2700	2700	5600	2750	4250	340000	15×2	49.4	4×2	11580	19820	DN125×2/DN80×2
ECE2800	2800	5600	2850	4250	340000	15×2	55.6	5.5×2	11870	20400	DN125×2/DN80×2
ECE2900	2900	5600	2900	4250	380000	15×2	55.6	5.5×2	12170	21000	DN125×2/DN80×2
ECE3000	3000	5600	3000	4250	380000	15×2	55.6	5.5×2	12460	21600	DN125×2/DN80×2



HEAT EXCHANGE PLATE ECBP SERIES



Condensing plates

Hot dip galvanized steel (AMMONIA/FREON)
Stainless steel 304,316 (AMMONIA/FREON)
Unique plate pattern, high efficiency heat transfer effect, small volume and weight,
All plates are tested at 2.5MPa air pressure. Easy to cleaning and maintenance.
Longer service life.



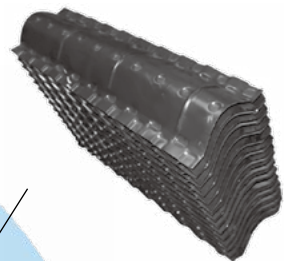
Water distribution system

Avoid blocking, easy to take off and clean.



Axial fan

Low noise with large air-flow.
Aluminum alloy or composite fiber blades.
Damp-proof motor.
One piece molded heavy duty construction.



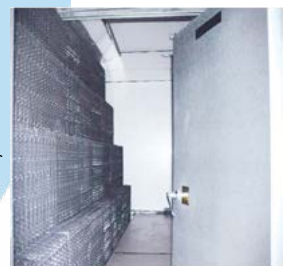
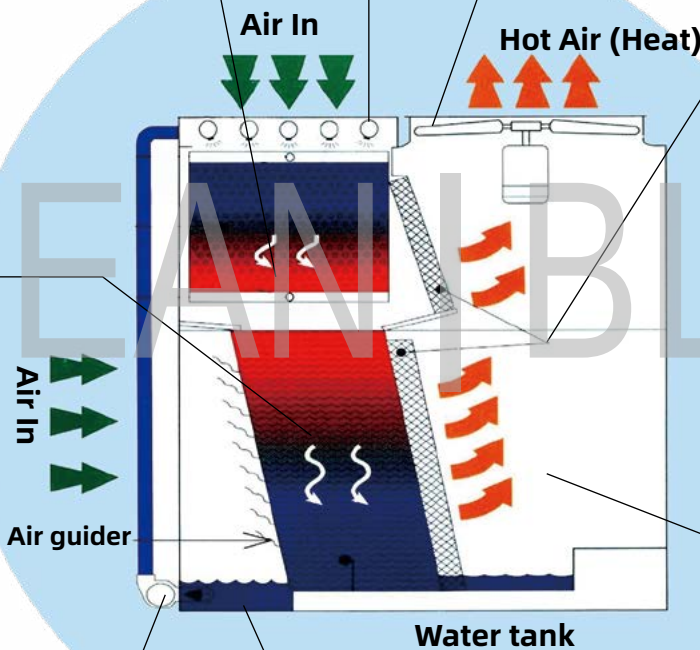
Drift eliminator

High-effective water eliminator is made of PVC, can filter the drips from expelled air-steam. Radiation-enduring and long lifespan. With the access door on the eliminators side panels.



PVC water cooler

Cool the water before drop into the water tank.



Access door

Spacious inside, easy to get in for maintenance.



Water pump

Low noise & Large water flow.
Protection level IP55, Insulation level F.
Trouble-free operation.



Stainless steel floating valve

Controls water supplement into the tank automatically.

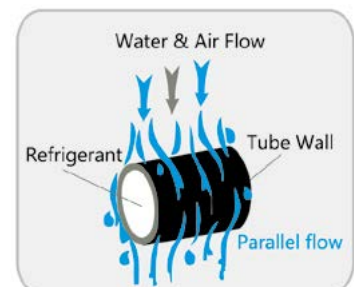


PLATE EVAPORATIVE CONDENSER

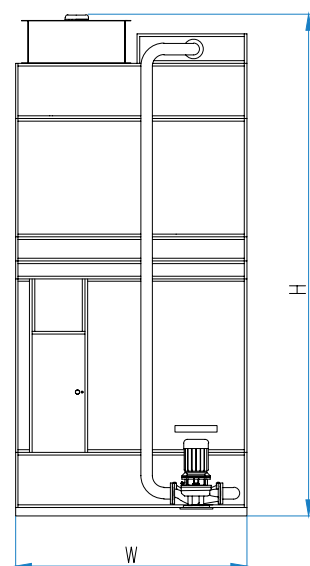
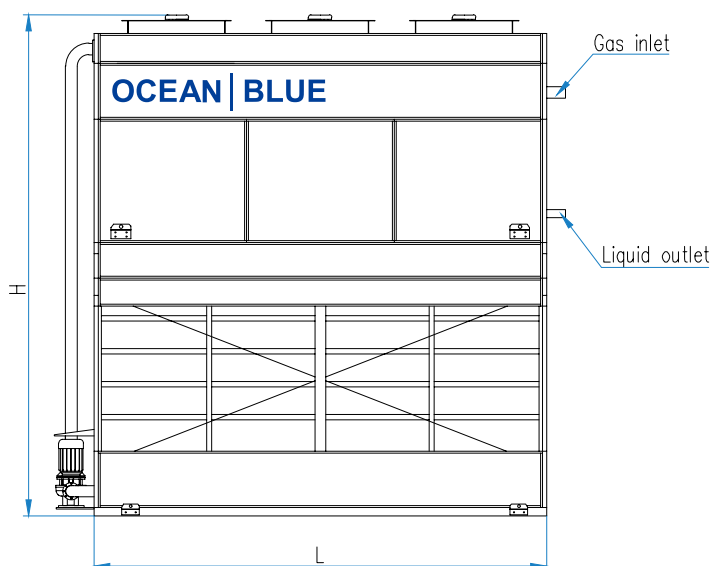
HEAT EXCHANGE PLATES

The heat exchange plates have higher heat transfer coefficient compared with traditional coils. Design working pressure is 2.0Mpa, and all the plates have been tested at least 3 times at 2.5Mpa to avoid leakage. We can supply stainless steel heat exchange plates, and hot-dipped galvanized heat exchange plates.



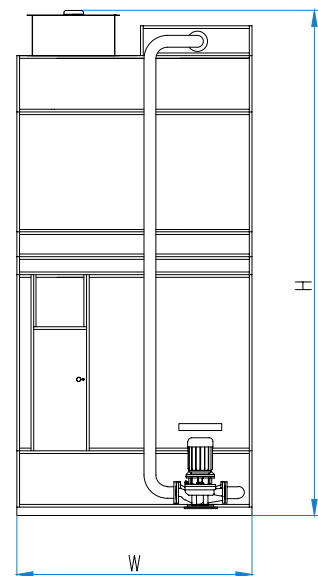
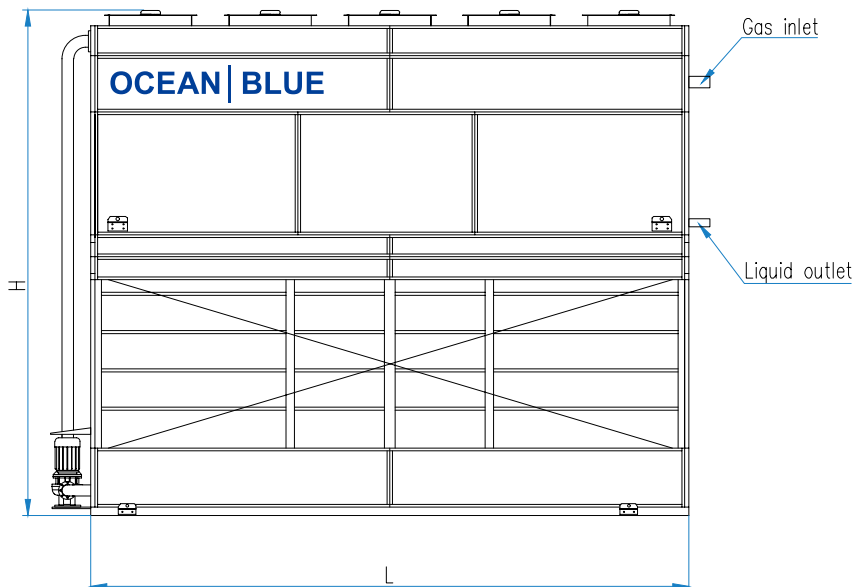
MODEL & SPECS ECBP SERIES

Model	Heat Rejection (KW)	Size(mm)			Fan		Water Pump		Weight(Kg)		Gas Inlet/ Liquid outlet (mm)
		L	W	H	Air flow (m3/hr)	Power (Kw)	Water flow (m3/hr)	Power (Kw)	Transport	Operate	
ECBP300	300	1280	2200	3950	55000	4x1	53	1.1	2100	3050	DN80/DN65
ECBP400	400	1400	2250	4200	60000	4x1	53	1.1	2380	3600	DN80/DN65
ECBP500	500	1700	2250	4200	60000	4x1	70	1.5	2650	3980	DN80/DN65
ECBP600	600	1980	2250	4200	65000	5.5x1	70	1.5	3080	4720	DN100/DN65
ECBP700	700	2290	2200	4200	90000	4x2	70	1.5	3560	5500	DN100/DN65
ECBP800	800	2650	2200	4200	110000	4x2	100	2.2	4010	6200	DN100/DN65
ECBP900	900	2880	2200	4200	110000	4x2	100	2.2	4380	6720	DN100/DN65
ECBP1000	1000	3160	2250	4200	120000	4x2	100	2.2	4830	7490	DN100/DN65
ECBP1100	1100	3470	2250	4200	120000	4x2	100	2.2	5100	7910	DN125/DN80
ECBP1200	1200	3750	2250	4200	130000	5.5x2	150	3	5560	8670	DN125/DN80
ECBP1300	1300	4050	2200	4200	165000	4x3	150	3	5880	9120	DN125/DN80
ECBP1400	1400	4330	2200	4200	165000	4x3	150	3	6130	9650	DN125/DN80
ECBP1500	1500	4640	2250	4200	180000	4x3	150	3	6710	10600	DN125/DN80
ECBP1600	1600	5010	2250	4200	180000	4x3	150	3	6990	10950	DN125/DN80



MODEL & SPECS ECBP SERIES

Model	Heat Rejection (KW)	Size(mm)			Fan		Water Pump		Weight(Kg)		Gas Inlet/ Liquid outlet (mm)
		L	W	H	Air flow (m3/hr)	Power (Kw)	Water flow (m3/hr)	Power (Kw)	Transport	Operate	
ECBP1700	1700	5320	2250	4200	195000	5.5x3	180	4	7570	11820	DN125/DN80
ECBP1800	1800	5600	2250	4200	195000	5.5x3	180	4	7750	12250	DN125/DN80
ECBP1900	1900	5910	2250	4200	195000	5.5x3	180	4	8040	12750	DN100x2/DN65x2
ECBP2000	2000	6100	2250	4200	240000	4x4	233	5.5	8820	13960	DN100x2/DN65x2
ECBP2100	2100	6400	2250	4200	240000	4x4	233	5.5	9100	14500	DN100x2/DN65x2
ECBP2200	2200	6780	2250	4200	240000	4x4	233	5.5	9370	14830	DN100x2/DN65x2
ECBP2300	2300	7090	2250	4200	260000	5.5x4	233	5.5	10350	16560	DN100x2/DN65x2
ECBP2400	2400	7370	2250	4200	260000	5.5x4	233	5.5	10700	17200	DN100x2/DN65x2
ECBP2500	2500	7680	2250	4200	300000	4x5	233	5.5	10850	17530	DN125x2/DN80x2
ECBP2600	2600	7950	2250	4200	300000	4x5	233	5.5	11150	17950	DN125x2/DN80x2
ECBP2700	2700	8262	2250	4200	300000	4x5	300	3x2	11580	18600	DN125x2/DN80x2
ECBP2800	2800	8540	2250	4200	325000	5.5x5	300	3x2	12260	19500	DN125x2/DN80x2
ECBP2900	2900	8850	2250	4200	325000	5.5x5	300	3x2	12540	20100	DN125x2/DN80x2
ECBP3000	3000	9130	2250	4200	325000	5.5x5	300	3x2	12850	20520	DN125x2/DN80x2



HOW TO CHOOSE A RIGHT MODEL

Compressor conditions

Working Conditions		Compressor Model	Cooling Capa.(Kw)	Motor Capa. (Kw)	Q'ty(set)
R717 / R22		Model: ____	A	B	C
Condensing temp.	____ °C				
Wet bulb temp.	____ °C				

Condensing capacity calculating

Total cooling capa. and motor capa. of the compressors: $(A + B) \times C$

Obtain a factor from Table 1/2 according to condensing temp. and wet bulb temp.:t

Total condensing capacity of of the evaporative condenser: $(A + B) \times C \times t$

For example

Compressor: R717; cooling capa. 335Kw; motor power 90Kw; 2 sets

Working conditions: Condensing temp. 35°C and wet bulb temp. 28°C

$(335+90) \times 2 \times 1.37 = 1164.5 \text{ Kw}$

Therefore, select an OceanBlue model ECB1200 with condensing capacity of 1200Kw.

Table 1 - R22 and R134a Heat Rejection Factors

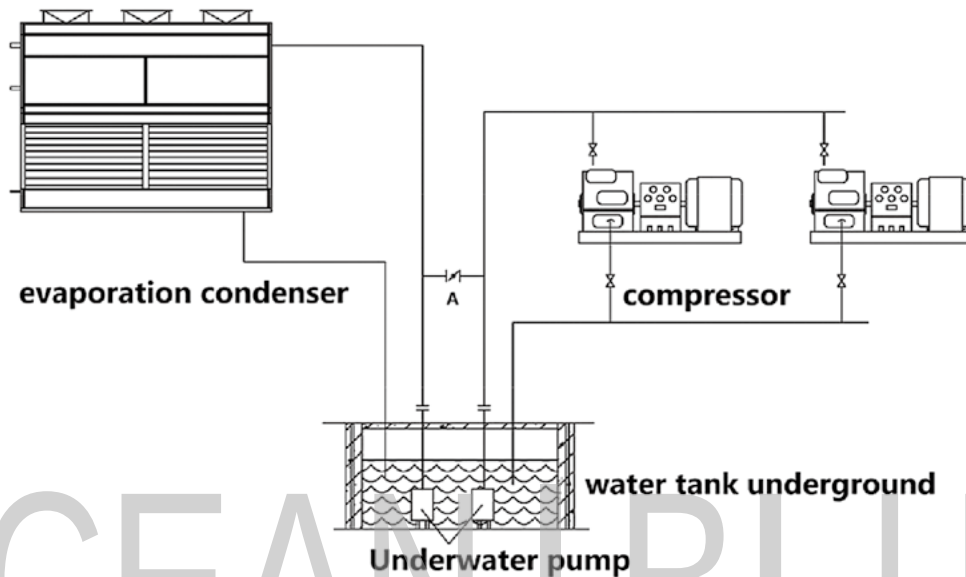
Cond. Temp.	Wet Bulb Temperature (°C)																	
(°C)	10	12	14	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
29	0.89	0.97	1.07	1.19	1.30	1.35	1.46	1.61	1.77	1.98	2.28	2.68	3.30	-	-	-	-	-
32	0.76	0.81	0.86	0.92	0.99	1.04	1.10	1.18	1.26	1.36	1.49	1.66	1.85	2.11	2.50	-	-	-
35	0.64	0.66	0.72	0.77	0.79	0.83	0.87	0.91	0.97	1.03	1.09	1.17	1.26	1.38	1.53	1.70	1.97	2.29
38	0.56	0.58	0.62	0.66	0.68	0.69	0.72	0.74	0.77	0.81	0.84	0.89	0.94	1.02	1.09	1.19	1.29	1.48
40	0.52	0.53	0.56	0.60	0.61	0.62	0.64	0.66	0.68	0.72	0.74	0.77	0.82	0.86	0.91	0.97	1.05	1.15
41	0.50	0.51	0.53	0.56	0.57	0.58	0.61	0.62	0.64	0.67	0.69	0.72	0.76	0.79	0.83	0.88	0.94	1.03
43	0.46	0.47	0.48	0.51	0.52	0.53	0.55	0.56	0.57	0.60	0.62	0.63	0.66	0.68	0.72	0.76	0.81	0.86

Table 2 - Ammonia (R-717) Heat Rejection Factors

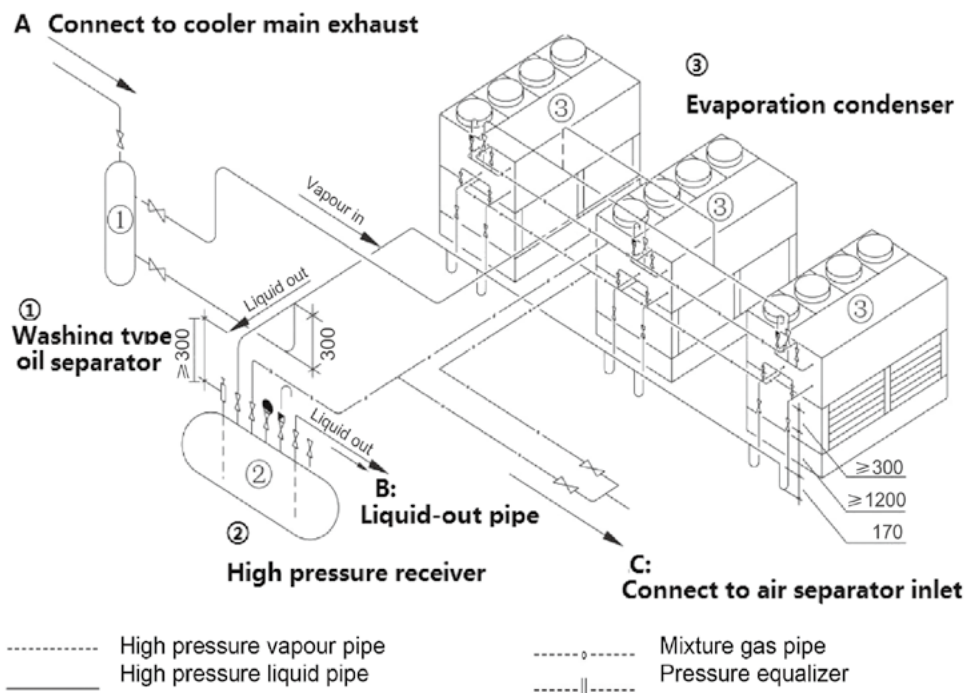
Cond. Temp.	Wet Bulb Temperature (°C)																	
(°C)	10	12	14	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
29	0.72	0.78	0.86	0.96	1.01	1.09	1.18	1.30	1.43	1.60	1.84	2.16	2.66	-	-	-	-	-
32	0.61	0.65	0.69	0.74	0.80	0.84	0.89	0.95	1.02	1.10	1.20	1.34	1.49	1.70	2.02	-	-	-
35	0.52	0.54	0.58	0.62	0.64	0.67	0.70	0.73	0.78	0.83	0.88	0.94	1.02	1.11	1.23	1.37	1.59	1.85
38	0.45	0.47	0.50	0.53	0.55	0.56	0.58	0.60	0.62	0.65	0.68	0.72	0.76	0.82	0.88	0.96	1.04	1.19
40	0.42	0.43	0.45	0.48	0.49	0.50	0.52	0.53	0.55	0.58	0.60	0.62	0.66	0.69	0.73	0.78	0.85	0.93
41	0.40	0.41	0.43	0.45	0.46	0.47	0.49	0.50	0.52	0.54	0.56	0.58	0.61	0.64	0.67	0.71	0.76	0.83
43	0.37	0.38	0.39	0.41	0.42	0.43	0.44	0.45	0.46	0.48	0.50	0.51	0.53	0.53	0.58	0.61	0.65	0.69

INSTALLATION

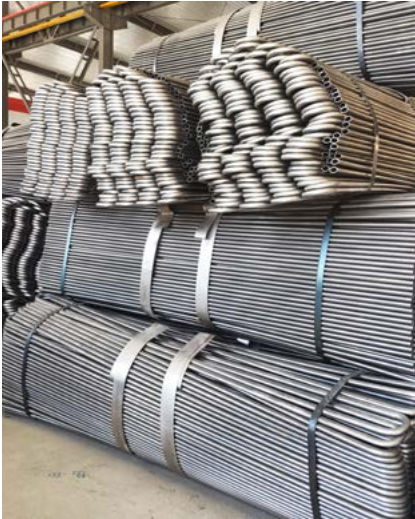
1) COUNTER FLOW SYSTEM CONNECTION



2) CROSS FLOW SYSTEM CONNECTION



PRODUCTION PROCESS



OCEANBLUE PROJECTS



Oceanblue Suppliers And Partners



INDUSTRIAL REFRIGERATION AMMONIA/FREON/CO2



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