



江苏振亚制冷空调设备有限公司
JIANGSU ZENIYA REFRIGERATION & AIR CONDITIONING EQUIPMENT CO., LTD.

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ZAHU Series Air Handling Unit 空气调节机组

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ZAHU 系列空气处理机组

ZAHU series air handling unit

风量：3000~40000 m³/h
Air flow:3000~40000 m³/h

ZAHU 系列空气处理机组是对船舶空调系统空气的温、湿度进行处理的装置，其基本型号有 18 个，功能段包括混合段、过滤段、表冷段、热盘管段、加湿段、风机段、消声段等，具有设计新颖、操作方便、运行稳定、安全可靠、维护保养便利等特点，广泛用于各种类型客船、货船、舰艇及海上石油平台等场合。

ZAHU series air handling unit is such a kind of device used for handling of air temperature、air humidity in marine AC system,it has 18 essential types and consists of the following sections: mixed section、filter section、heating coil section、humidification section、fan section、silencer section and so on, owning the characters as newly design、convenient operation、steady running、safety and reliability、convenient maintenance etc. It is also adopted in all kinds of passenger ship、cargo ship、naval vessel and marine oil platform and so on.

机组特性

Unit Character

● 结构特点

- ☆ 模数化设计：零部件通用性强，调换方便。
- ☆ 双层镀锌面板结构，聚氨酯发泡保温，50mm 发泡面板重量轻、刚性好、导热系数低。
- ☆ 新型密封材料使空气漏风量减至最小。
- ☆ 盘管放水阀：盘管回路最低点处设放水阀放尽盘管内积水，避免盘管冻裂。
- ☆ 机组底座：底座采用拼接底座，外形美观，加强整机强度。

● 性能特点

- ☆ 采用优化设计后倾双进风离心风机，噪音低、效率高。风机叶轮、皮带轮均经过静动平衡校正，整体风机再经运行振动测试校正，运行平稳。风机电机公用底座装有减震器，出风口与箱体有软连接、与运动部件完全隔离，有效隔绝振动。
- ☆ 盘管采用二次波纹翅片并用机械胀管法胀接于铜管上，传热效率极佳。盘管集管设有排水阀和放气阀，保证回路中无空气积聚，同时冬季盘管内可放尽积水，避免冻裂。迎面风速大于 2.5m/s 时，盘管后需设置挡水器。
- ☆ 初效过滤器为板式结构，效率 G3~G4 级。中效过滤器为袋式结构，效率 F5~F8 级。

● 维护简易

- ☆ 机组配有特殊设计的检修门，容易开启检修维护。

Structural Features

- Modulization design: Components has universal use and can be exchanged conveniently.
- Double-layer galvanized plate structure, polyurethane foam temperature protection, 50mm foam plate owns low weight, good rigidity and low heat conductivity coefficient.
- New sealed materials contribute to minimize leakage air volume.
- Coil drain valve: The lowest part of coil is equipped with drain valve used for draining water Inside tube, providing that frost crack happen in tube.
- Unit base: The base is applying stitching base, thus it owns charming outline, which also guaranteed strength of the unit.

Performance characters

- It applies newly designed backward double-air-inlet centrifugal fan, owning the features of low noise, high efficiency. Fan impeller, belt will be adjusted by static and dynamic balance, while the whole fan will be regulated by running vibration again to reach steady condition. Fan motor is fitted with vibration damper in common base, air outlet will be connected to box by flexible tube and insulated from running components totally, which resulting in low vibration.
- Coil adopts second-used corrugated fin and connected to copper tube by mechanical tube expanding method, which bring forth to good heating transferring efficiency. Coil collector is equipped with vent valve and water drain valve, guaranteed that there will be no accumulated air in circulation, meanwhile, water in coil can be drained totally in winter for avoiding frost crack. Water defector will be equipped in the back of coil, when face velocity is higher than 2.5m/s.
- Primary filter is plate type, whose efficiency presents as G3~G4 grade. Middle efficient filter is bag type with efficiency of F5~F8 grade.

Simple maintenance

- Unit is equipped with inspection door with special design, which result in easily opening for inspection maintenance.

● 智能控制

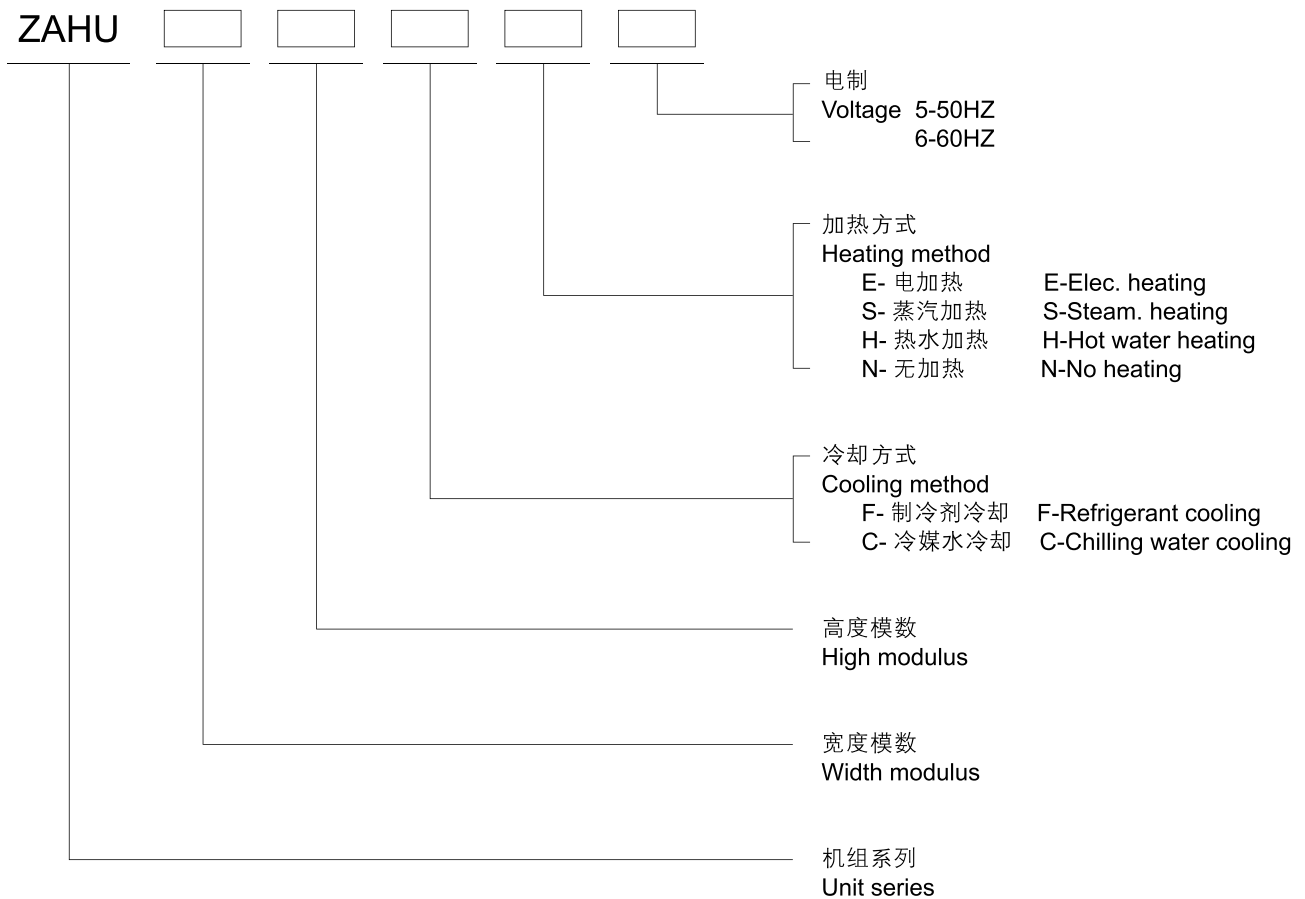
- ☆ ZAHU 空气处理机组可根据用户要求增加以下控制功能（需另购）。
- ☆ 通过加装各类传感器，电动风门执行机构、电动阀门等设备通过 PLC 控制，实现机组所服务区域精确温、湿度控制。
- ☆ 通过加装变频装置，全面实现机组变风量运行，达到节能功效。

Intelligent control

- ZAHU air handling unit can added the following function (purchased additionally) according to customer's requirement.
- Accurate temperature and humidity can be reached through installation of all kinds of sensors and PLC controls electric air damper actuator、electrical valve and so on.
- By way of installing frequency converter device, the air flow change running can be fully achieved, finally reaching energy conservation effect.

机组型号标注方法

Unit type mark method



机组模数和尺寸计算公式

Unit model and dimension calculation formula

- (1) 机组宽度 = 宽度模数 X 100 + 50 Width=width modulus x 100 +50
 (2) 机组高度 = 高度模数 X 100 + 50 Height=height modulus x 100 +50

例：ZAHU1209

Example:

12 宽度模数 机组宽为：12 X 100 + 50 = 1250mm

12 width modulus width：12 X 100 + 50 = 1250mm

09 高度模数 机组高为：9 X 100 + 50 = 950mm

09 height modulus height：9 X 100 + 50 = 950mm

注：机组高不包括底座 150 mm 及顶部风口尺寸

Note:Unit height is except for base in 150mm and dimension of top air inlet

快速选型

Fast type selection

- ☆ 制冷工况：舱外干球温度 35°C，相对湿度 70%，舱内干球温度 27°C，相对湿度 50%。
 - ☆ 制热工况：舱外干球温度 -20°C，舱内干球温度 20°C，相对湿度 50%。
 - ☆ 新风比：~40%
- Design terms of cooling condition: outside temperature 35°C, relative humidity 70%,inside temperature 27°C, relative humidity 50%.
 - Design terms of heating condition: outside temperature -20°C,inside temperature 20°C, relative humidity 50%.
 - Fresh Air Rate: ~40%.

机组型号 Model		ZAHU0909	ZAHU1109	ZAHU1309	ZAHU1509	ZAHU1510	ZAHU1610
风机和电机 Fan&Motor							
名义风量 Nominal Air Flow	m ³ /h	3000	4500	5800	7000	8200	9300
机外静压 Static Pressure	Pa	600	700	800	900	1000	1200
风机 Fan		船用离心风机 Marine Centrifugal Fan					
电机功率 Motor Output(50/60Hz)	KW	2.2/1.8	3/3.6	4/4.8	5.5/6.3	7.5/6.3	11/8.5
制冷盘管 Cooling Coil		根据用户实际工况选配 Optional according to user's situation					
名义制冷量 Nominal Cooling capacity	KW	34	54	64	80	92	108
进风工况 Air Inlet Condition	T/RH	30.8°C /60%	30.8°C /60%	30.8°C /60%	30.8°C /60%	30.8°C /60%	30.8°C /60%
		表冷器 Chilled Water Cooling Coil					
冷水进出口温度 Water Inlet/Outlet	°C	7/12	7/12	7/12	7/12	7/12	7/12
水流量 Water Flow	m ³ /h	5.8	9.3	11	13.7	15.8	18.6
进出口管径 Connection Size	DN	DN32	DN40	DN50	DN50	DN50	DN65
		蒸发器 DX Cooling Coil					
蒸发温度 Expansion Temperature	°C	5	5	5	5	5	5
液管管径 Liquid Line 气管管径 Suction Line	Q x Size Q x Size	1 x 7/8" 1 x 1-3/8"	1 x 7/8" 1 x 1-3/8"	1 x 7/8" 1 x 1-5/8"	1 x 1-1/8" 1 x 1-5/8"	1 x 1-1/8" 1 x 2-1/8"	1 x 1-1/8" 1 x 2-1/8"
制热盘管 Heating Coil		根据用户实际工况选配 Optional according to user's situation					
名义制热量 Nominal Heating capacity	KW	31	47	60	73	85	97
进风工况 Air Inlet Condition	T/RH	4°C /88%	4°C /88%	4°C /88%	4°C /88%	4°C /88%	4°C /88%
		电加热 Electrical Heating Coil					
分级 Stage	-	3	3	3	3	3	3
		热水盘管 Hot Water Heating Coil					
热水进出口温度 Water Inlet/Outlet	°C	60/50	60/50	60/50	60/50	60/50	60/50
水流量 Water Flow	m ³ /h	2.7	4.1	5.3	6.4	7.5	8.5
进出口管径 Connection Size	DN	DN32	DN32	DN32	DN40	DN40	DN50
		蒸汽盘管 Steam Heating Coil					
蒸汽进口温度 Steam Inlet	°C	143	143	143	143	143	143
蒸汽压力 Steam Pressure	Bar	4bar	4bar	4bar	4bar	4bar	4bar
蒸汽耗量 Steam Flow	Kg/h	53	79	102	123	144	163
进出口管径 Connection Size	DN	DN25/DN20	DN25/DN20	DN25/DN20	DN25/DN20	DN32/DN25	DN32/DN25
加湿器 Humidifier		根据用户实际工况选配 Optional according to user's situation					
名义加湿量 Nominal Humidifier Capacity	kg/h	12	18	24	29	34	38
		蒸汽加湿器 Steam Humidifier					
蒸汽压力 Steam Pressure	Bar	2bar	2bar	2bar	2bar	2bar	2bar
喷孔孔径 Hole Diameter	mm	6	6	6	6	6	6
进口尺寸 Connection Size	DN	DN15	DN15	DN15	DN15	DN15	DN15
		湿膜加湿器 Wet Film Humidifier					
进口尺寸 Connection Size	DN	DN15	DN15	DN15	DN15	DN15	DN15

注：其他工况条件下，客户可按风量选择机组型号，具体参数请与我司联系。

Note: Customer can choose the unit model according to the air flow in other working conditions, please contact us to get the specific parameters.

机组型号 Model		ZAHU1710	ZAHU1711	ZAHU1812	ZAHU1813	ZAHU1912	ZAHU2013
风机和电机 Fan&Motor							
名义风量 Nominal Air Flow	m ³ /h	10500	11600	13500	15500	14000	17000
机外静压 Static Pressure	Pa	1300	1400	1500	1600	1600	1800
风机 Fan		船用离心风机 Marine Centrifugal Fan					
电机功率 Motor Output(50/60Hz)	KW	11/12.5	11/12.5	15/12.5	15/17	15/17	18.5/17
制冷盘管 Cooling Coil		根据用户实际工况选配 Optional according to user's situation					
名义制冷量 Nominal Cooling capacity	KW	122	134	158	182	166	203
进风工况 Air Inlet Condition	T/RH	30.8°C /60%	30.8°C /60%	30.8°C /60%	30.8°C /60%	30.8°C /60%	30.8°C /60%
表冷器 Chilled Water Cooling Coil							
冷水进出口温度 Water Inlet/Outlet	°C	7/12	7/12	7/12	7/12	7/12	7/12
水流量 Water Flow	m ³ /h	21	23	27.1	31.3	28.5	33.5
进出口管径 Connection Size	DN	DN65	DN65	DN80	DN80	DN80	DN80
蒸发器 DX Cooling Coil							
蒸发温度 Expansion Temperature	°C	5	5	5	5	5	5
液管管径 Liquid Line 气管管径 Suction Line	Q x Size Q x Size	1 x 1-1/8" 1 x 2-1/8"	1 x 1-1/8" 1 x 2-1/8"	1 x 1-1/8" 1 x 2-5/8"	2 x 7/8" 2 x 2-1/8"	1 x 1-1/8" 1 x 2-5/8"	2 x 1-1/8" 2 x 2-1/8"
制热盘管 Heating Coil		根据用户实际工况选配 Optional according to user's situation					
名义制热量 Nominal Heating capacity	KW	109	120	140	161	145	177
进风工况 Air Inlet Condition	T/RH	4°C /88%	4°C /88%	4°C /88%	4°C /88%	4°C /88%	4°C /88%
电加热 Electrical Heating Coil							
分级 Stage	-	3	3	3	3	3	3
热水盘管 Hot Water Heating Coil							
热水进出口温度 Water Inlet/Outlet	°C	60/50	60/50	60/50	60/50	60/50	60/50
水流量 Water Flow	m ³ /h	9.6	10.5	12.3	14.1	12.7	15.5
进出口管径 Connection Size	DN	DN50	DN50	DN50	DN65	DN50	DN65
蒸汽盘管 Steam Heating Coil							
蒸汽进口温度 Steam Inlet	°C	143	143	143	143	143	143
蒸汽压力 Steam Pressure	Bar	4bar	4bar	4bar	4bar	4bar	4bar
蒸汽耗量 Steam Flow	Kg/h	184	203	237	272	245	298
进出口管径 Connection Size	DN	DN32/DN25	DN32/DN25	DN40/DN25	DN40/DN25	DN40/DN25	DN40/DN25
加湿器 Humidifier		根据用户实际工况选配 Optional according to user's situation					
名义加湿量 Nominal Humidifier Capacity	kg/h	43	47	55	63	57	70
蒸汽加湿器 Steam Humidifier							
蒸汽压力 Steam Pressure	Bar	2bar	2bar	2bar	2bar	2bar	2bar
喷孔孔径 Hole Diameter	mm	6	6	6	6	6	8
进口尺寸 Connection Size	DN	DN15	DN15	DN20	DN20	DN20	DN20
湿膜加湿器 Wet Film Humidifier							
进口尺寸 Connection Size	DN	DN15	DN15	DN15	DN15	DN15	DN15

注：其他工况条件下，客户可按风量选择机组型号，具体参数请与我司联系。

Note: Customer can choose the unit model according to the air flow in other working conditions, please contact us to get the specific parameters.

机组型号 Model		ZAHU2214	ZAHU2215	ZAHU2416	ZAHU2516	ZAHU2617	ZAHU2819
风机和电机 Fan&Motor							
名义风量 Nominal Air Flow	m³/h	20000	22000	26000	29000	34000	40000
机外静压 Static Pressure	Pa	2000	2000	2000	2100	2100	2200
风机 Fan		船用离心风机 Marine Centrifugal Fan					
电机功率 Motor Output(50/60Hz)	KW	22/21	30/36	30/36	37/36	37/42	45/53
制冷盘管 Cooling Coil		根据用户实际工况选配 Optional according to user's situation					
名义制冷量 Nominal Cooling capacity	KW	227	248	303	334	387	464
进风工况 Air Inlet Condition	T/RH	30.8°C /60%	30.8°C /60%	30.8°C /60%	30.8°C /60%	30.8°C /60%	30.8°C /60%
表冷器 Chilled Water Cooling Coil							
冷水进出口温度 Water Inlet/Outlet	°C	7/12	7/12	7/12	7/12	7/12	7/12
水流量 Water Flow	m³/h	39.1	42.6	52.1	57.4	66.5	79.7
进出口管径 Connection Size	DN	DN100	DN100	DN100	DN100	DN125	DN125
蒸发器 DX Cooling Coil							
蒸发温度 Expansion Temperature	°C	5	5	5	5	5	5
液管管径 Liquid Line 气管管径 Suction Line	Q x Size Q x Size	2 x 1-1/8" 2 x 2-1/8"	2 x 1-1/8" 2 x 2-1/8"	2 x 1-1/8" 2 x 2-5/8"	2 x 1-3/8" 2 x 2-5/8"	1 x 1-5/8" DN100	1 x 2-1/8" DN00
制热盘管 Heating Coil		根据用户实际工况选配 Optional according to user's situation					
名义制热量 Nominal Heating capacity	KW	208	228	270	301	353	415
进风工况 Air Inlet Condition	T/RH	4°C /88%	4°C /88%	4°C /88%	4°C /88%	4°C /88%	4°C /88%
电加热 Electrical Heating Coil							
分级 Stage	-	3	3	4	4	4	4
热水盘管 Hot Water Heating Coil							
热水进出口温度 Water Inlet/Outlet	°C	60/50	60/50	60/50	60/50	60/50	60/50
水流量 Water Flow	m³/h	18.2	20.0	23.6	26.4	30.9	36.3
进出口管径 Connection Size	DN	DN65	DN65	DN80	DN80	DN100	DN100
蒸汽盘管 Steam Heating Coil							
蒸汽进口温度 Steam Inlet	°C	143	143	143	143	143	143
蒸汽压力 Steam Pressure	Bar	4bar	4bar	4bar	4bar	4bar	4bar
蒸汽耗量 Steam Flow	Kg/h	350	385	456	508	596	701
进出口管径 Connection Size	DN	DN40/DN25	DN50/DN32	DN50/DN32	DN50/DN32	DN50/DN32	DN65/DN32
加湿器 Humidifier		根据用户实际工况选配 Optional according to user's situation					
名义加湿量 Nominal Humidifier Capacity	kg/h	82	90	106	119	139	164
蒸汽加湿器 Steam Humidifier							
蒸汽压力 Steam Pressure	Bar	2bar	2bar	2bar	2bar	2bar	2bar
喷孔孔径 Hole Diameter	mm	8	8	8	10	10	12
进口尺寸 Connection Size	DN	DN20	DN25	DN25	DN32	DN32	DN32
湿膜加湿器 Wet Film Humidifier							
进口尺寸 Connection Size	DN	DN15	DN15	DN15	DN15	DN15	DN15

注：其他工况条件下，客户可按风量选择机组型号，具体参数请与我司联系。

Note: Customer can choose the unit model according to the air flow in other working conditions, please contact us to get the specific parameters.

盘管制冷量表 Cooling capacity Data Sheet

机组型号 Model	排数 Row	冷水式 Chilled Water								
		空调机组 Air Handling Unit			40% 新风机组 Air Handling Unit (40% Fresh)			新风机组 Fresh Air Handling Unit		
		进风 :27℃ /50%, 进水 7℃ Air Inlet Condition:27℃ /50%; Water Inlet:7℃			进风 :30.8℃ /60%, 进水 7℃ Air Inlet Condition:30.8℃ /60%; Water Inlet:7℃			进风 :35℃ /70%, 进水 7℃ Air Inlet Condition:35℃ /70%; Water Inlet:7℃		
		冷量 KW Cooling capacity	水流 量 m ³ /h Water Flow	水阻力 Kpa Water Resistance	冷量 KW Cooling capacity	水流 量 m ³ /h Water Flow	水阻力 Kpa Water Resistance	冷量 KW Cooling capacity	水流 量 m ³ /h Water Flow	水阻力 Kpa Water Resistance
ZAHU0909	4	15.79	2.71	8.72	24.81	4.26	8.67	41	7.04	20.97
	6	19.83	3.41	13.65	34.02	5.85	23.02	53.83	9.07	49.78
	8	23.21	3.99	15.75	39.64	6.81	40.17	57.47	9.87	11.15
ZAHU1109	4	21.99	3.78	6.89	40.54	6.97	20.17	65.29	11.22	46.65
	6	31.05	5.34	19.2	53.64	9.22	50.11	77.55	13.32	13.82
	8	36.77	6.32	34.48	56.76	9.75	10.73	90.01	15.47	24.13
ZAHU1309	4	30.27	5.20	14.42	54.01	9.28	10.03	76.76	13.19	10.65
	6	41.39	7.11	37.93	63.83	10.97	11.75	102.64	17.64	27.17
	8	47.68	8.19	46.07	75.26	12.93	21.06	117.83	20.25	46.37
ZAHU1509	4	38.29	6.58	25.43	58.27	10.01	7.65	96.24	16.54	18.49
	6	47.99	8.25	18.55	79.73	13.70	20.3	126.5	21.74	45.51
	8	54.36	9.34	13.9	92.78	15.94	35.41	140.93	24.21	34.06
ZAHU1510	4	44.09	7.58	26.5	73.77	12.68	29.4	110.81	19.04	19.27
	6	56.53	8.52	49.2	92.22	15.85	21.34	146.43	25.16	47.98
	8	67.01	11.51	50.22	107.7	18.51	37.42	163.72	28.13	35.05
ZAHU1610	4	52.2	8.97	31.69	79.82	13.71	9.63	130.85	22.48	22.98
	6	67.65	11.62	45.52	107.95	18.55	24.99	162.39	27.90	16.44
	8	76.18	13.09	33.69	124.83	21.45	43.13	181.68	31.22	12.02
ZAHU1710	4	58.69	10.08	41.48	88.07	15.13	11.02	146.75	25.21	30
	6	73.54	12.64	30.24	121.48	20.87	32.8	182.75	31.40	21.61
	8	83.28	14.31	22.66	139.05	22.54	50.12	204.93	35.21	15.87
ZAHU1711	4	64.72	11.12	41.66	99.36	17.07	12.77	161.83	27.81	30.14
	6	76.35	13.12	12.24	134.03	23.03	32.98	201.62	34.64	21.72
	8	91.91	15.79	22.8	152.37	23.80	46.62	226.18	38.86	15.96
ZAHU1812	4	76.45	13.14	50.87	124.8	20.23	48.83	190.8	32.78	36.72
	6	95.7	16.44	37	157.7	27.10	39.98	237.28	40.77	26.37
	8	108.2	18.59	27.57	176.81	30.38	29.33	265.72	45.66	19.33

盘管制冷量表 Cooling capacity Data Sheet

机组型号 Model	排数 Row	冷水式 Chilled Water								
		空调机组 Air Handling Unit			40% 新风机组 Air Handling Unit (40% Fresh)			新风机组 Fresh Air Handling Unit		
		进风 :27℃ /50%, 进水 7℃ Air Inlet Condition:27℃ /50%; Water Inlet:7℃			进风 :30.8℃ /60%, 进水 7℃ Air Inlet Condition:30.8℃ /60%; Water Inlet:7℃			进风 :35℃ /70%, 进水 7℃ Air Inlet Condition:35℃ /70%; Water Inlet:7℃		
		冷量 KW Cooling capacity	水流量 m ³ /h Water Flow	水阻力 Kpa Water Resistance	冷量 KW Cooling capacity	水流量 m ³ /h Water Flow	水阻力 Kpa Water Resistance	冷量 KW Cooling capacity	水流量 m ³ /h Water Flow	水阻力 Kpa Water Resistance
ZAHU1813	4	83.14	14.29	21.55	136.23	23.41	15.47	220.53	37.89	36.12
	6	110.44	18.98	36.3	181.94	31.26	39.2	273.88	47.06	25.97
	8	124.7	21.43	26.95	203.7	35.00	29.14	306.19	52.61	18.91
ZAHU1912	4	76.82	13.20	24.4	125.5	21.56	18.6	202.15	34.73	43.05
	6	101.17	17.38	43.15	166.31	28.58	46.43	250.33	43.01	30.71
	8	114.07	19.60	32.01	185.88	31.94	33.89	279.3	47.99	22.35
ZAHU2013	4	95.18	16.35	30.5	153.61	26.39	19.93	247.6	40.91	46.19
	6	119.08	20.46	20.79	202.93	33.53	49.44	308	52.92	35.51
	8	140.33	24.11	37.05	228.1	39.19	39.71	342.76	58.89	25.81
ZAHU2214	4	111.85	19.22	35.41	182.56	31.37	27.1	263.38	44.37	49.73
	6	140	24.05	25.76	227.39	39.07	19.53	360.86	62.00	43.81
	8	164.84	28.32	45.83	267.8	46.01	48.32	402.36	69.13	31.92
ZAHU2215	4	121.36	20.85	37.52	198.26	34.07	27.97	268.36	46.11	47.54
	6	152.47	26.20	26.73	247.73	42.57	20.28	393.36	67.59	45.6
	8	179.97	30.92	47.77	291.42	49.09	49.69	439.66	75.54	33.31
ZAHU2416	4	149.91	25.76	48.2	244.35	41.98	36.11	323.34	50.51	49.86
	6	186.86	32.11	47.27	302.91	52.05	25.79	471.85	75.07	48.86
	8	212.36	33.17	34.13	339.09	58.26	18.86	530.66	91.18	41.5
ZAHU2516	4	150.92	25.93	16.14	268.01	46.05	44.43	344.73	48.55	48.59
	6	206.06	35.41	42.37	334.03	57.39	32.06	510.02	73.03	48.94
	8	233.06	40.04	31.57	375.33	64.49	23.59	585.37	98.61	49.8
ZAHU2617	4	174.82	30.04	19.91	305.39	50.45	49.52	389.42	51.47	51.09
	6	237.03	39.93	49.68	386.96	66.49	39.43	580.19	76.68	50.39
	8	270.98	46.56	40.14	436.42	74.99	29.2	669.68	100.93	49.15
ZAHU2819	4	212.35	36.49	25.45	357.99	53.96	50.6	460.13	56.47	54.6
	6	275.03	42.19	49.68	464.06	79.74	49.28	684.18	83.97	53.64
	8	324.29	55.72	48.51	521.74	89.65	36.32	792.44	113.47	54.82

盘管制冷量表 Cooling capacity Data Sheet

机组型号 Model	排数 Row	蒸发式 Refrigerant R407C								
		空调机组 Air Handling Unit			40% 新风机组 Air Handling Unit (40% Fresh)			新风机组 Fresh Air Handling Unit		
		进风 :27℃ /50%, 蒸发温度 5℃ Air Inlet Condition:27℃ /50%; Expansion Temperature:5℃			进风 :30.8℃ /60%, 蒸发温度 5℃ Air Inlet Condition:30.8℃ /60%; Expansion Temperature:5℃			进风 :35℃ /70%, 蒸发温度 5℃ Air Inlet Condition:35℃ /70%; Expansion Temperature:5℃		
		冷量 KW Cooling capacity	质量流量 Kg/h Mass Flow Rate	阻力 Kpa Resistance	冷量 KW Cooling capacity	质量流量 Kg/h Mass Flow Rate	阻力 Kpa Resistance	冷量 KW Cooling capacity	质量流量 Kg/h Mass Flow Rate	阻力 Kpa Resistance
ZAHU0909	4	15.44	341	18.11	20.65	456	4.49	32.26	713	10.03
	6	19.82	438	13.69	30.06	664	13.04	45.93	1015	27.98
	8	22.86	505	10.55	35.95	795	23.79	53.45	1181	34.53
ZAHU1109	4	23.77	525	8.77	36.33	803	10.15	55.79	1233	22.01
	6	31.37	693	11.55	49.46	1093	26.19	73.4	1622	32.2
	8	36.81	814	20.41	55.2	1220	11.48	83.45	1844	24.15
ZAHU1309	4	31.96	706	17.67	48.83	1079	20.43	63	1392	4.77
	6	41.4	915	22.51	63.64	1407	29.43	90.82	2007	13.59
	8	47.34	1046	37.97	72.33	1599	22.07	107.17	2369	24.16
ZAHU1509	4	38.39	849	15.28	60.55	1338	34.73	80.73	1784	8.59
	6	50.48	1116	37.14	76.77	1697	25.64	112.77	2492	23.14
	8	56.95	1259	16.59	87.24	1928	19.23	130.18	2877	39.57
ZAHU1510	4	43.62	964	16.2	68.77	1520	36.79	91.38	2020	9.05
	6	57.71	1275	39.8	84.4	1865	11.55	128.89	2849	24.8
	8	63.85	1411	9.25	100.34	2218	20.83	149.71	3309	42.88
ZAHU1610	4	51.32	1134	19.79	77.51	1713	18.75	108.61	2400	11.25
	6	65.04	1438	14.62	98.82	2184	13.98	150.02	3316	29.71
	8	75.79	1675	35.35	115.86	2561	24.61	171.05	3780	22.39
ZAHU1710	4	57.36	1268	25.69	86.74	1917	24.38	122.07	2698	14.75
	6	72.92	1612	19.07	110.92	2451	18.29	158.67	3507	11.38
	8	83.4	1843	14.48	129.4	2860	31.91	191.48	4232	29.14
ZAHU1711	4	62.77	1387	26.15	86.18	1905	6.8	133.44	2949	14.99
	6	76.2	1684	8.06	121.6	2688	18.68	173.85	3842	11.62
	8	91.58	2024	14.84	142.11	3141	32.7	201.25	4448	9
ZAHU1812	4	73.41	1623	32.13	102.08	2256	8.54	157.31	3477	18.66
	6	93.52	2067	23.94	142.44	3148	23	204.58	4522	14.42
	8	107.06	2366	18.21	165.07	3648	39.67	236.38	5225	11.13

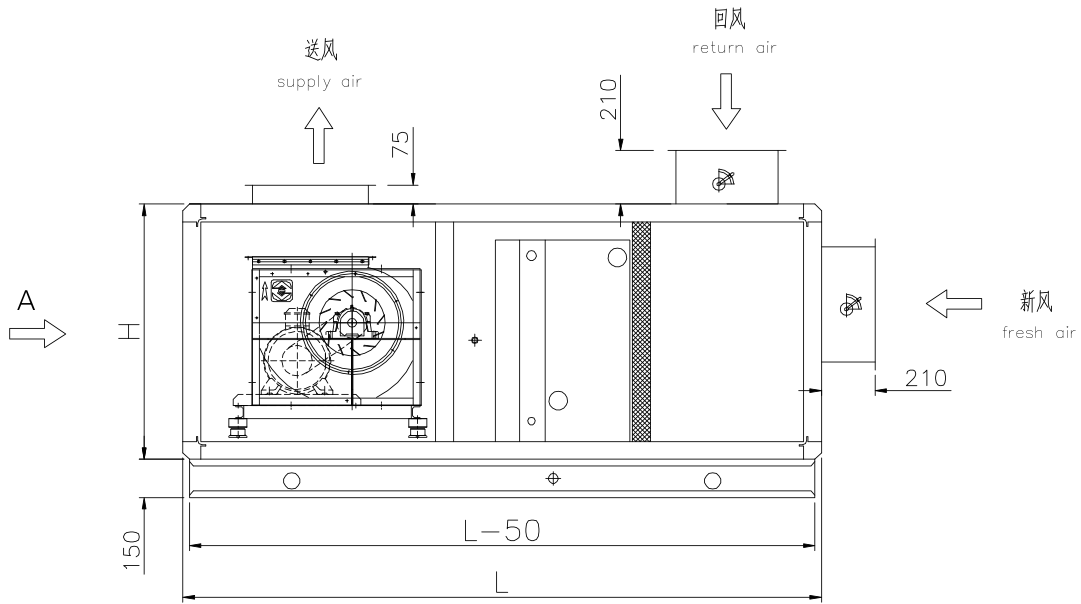
盘管制冷量表 Cooling capacity Data Sheet

机组型号 Model	排数 Row	蒸发式 Refrigerant R407C								
		空调机组 Air Handling Unit			40% 新风机组 Air Handling Unit (40% Fresh)			新风机组 Fresh Air Handling Unit		
		进风 :27℃ /50%, 蒸发温度 5℃ Air Inlet Condition:27℃ /50%; Expansion Temperature:5℃			进风 :30.8℃ /60%, 蒸发温度 5℃ Air Inlet Condition:30.8℃ /60%; Expansion Temperature:5℃			进风 :35℃ /70%, 蒸发温度 5℃ Air Inlet Condition:35℃ /70%; Expansion Temperature:5℃		
		冷量 KW Cooling capacity	质量流量 Kg/h Mass Flow Rate	阻力 Kpa Resistance	冷量 KW Cooling capacity	质量流量 Kg/h Mass Flow Rate	阻力 Kpa Resistance	冷量 KW Cooling capacity	质量流量 Kg/h Mass Flow Rate	阻力 Kpa Resistance
ZAHU1813	4	86.62	1914	30.5	120.68	2667	8.14	186.074	4112	17.8
	6	105.36	2329	9.43	167.11	3694	21.62	240.38	5313	13.58
	8	125.05	2764	16.98	192.77	4261	36.98	276.28	6106	10.39
ZAHU1912	4	77.67	1717	37.52	109.51	2420	10.22	168.03	3714	22.16
	6	95.34	2107	11.78	150.44	3325	26.78	217.25	4802	16.94
	8	112.59	2488	21.03	172.48	3812	45.31	249.79	5521	12.96
ZAHU2013	4	97.46	2154	41.89	139.38	3081	11.7	213.03	4708	25.19
	6	119.76	2647	13.18	187.87	4153	29.64	272.86	6031	18.93
	8	139.68	3087	23.01	212.71	4701	49.04	311.31	6881	14.28
ZAHU2214	4	109.98	2431	22.2	162.37	3589	14.58	246.92	5457	31.11
	6	139.57	3085	16.43	217.76	4813	36.61	317.6	7019	23.55
	8	162.31	3587	28.55	248.13	5484	27.58	363.43	8033	17.87
ZAHU2215	4	115.95	2563	49.22	174.92	3866	15.13	265.82	5875	32.24
	6	151.09	3339	17.2	235.75	5210	38.32	343.66	7595	24.63
	8	176.28	3896	30.05	259.09	5727	8.8	394.81	8726	18.82
ZAHU2416	4	134.41	2971	8.59	215.66	4766	20.14	296.04	6543	35.71
	6	183.63	4059	22.33	283.34	6263	48.78	417.23	9222	31.9
	8	210.66	4656	37.87	322.88	7136	36.74	476.46	10531	24.11
ZAHU2516	4	159.53	3526	29.67	218.72	4834	7.72	338.19	7474	17
	6	202.54	4477	21.97	307.98	6807	21.09	439.79	9720	13.12
	8	231.27	5112	16.62	358.06	7914	36.54	507.9	11226	10.11
ZAHU2617	4	182.54	4035	35.73	252.09	5572	9.41	388.31	8582	20.59
	6	223.23	4934	11.14	354.77	7841	25.7	507.54	11218	16.04
	8	267.3	5908	20.37	411.96	9105	44.45	588.47	13006	12.45
ZAHU2819	4	218.94	4839	44.68	308.7	6822	12.2	472.46	10442	26.39
	6	270.06	5969	14.14	425.56	9406	32.13	613.79	13566	20.33
	8	319.03	7051	25.24	487.05	10765	24.38	707.78	15643	15.62

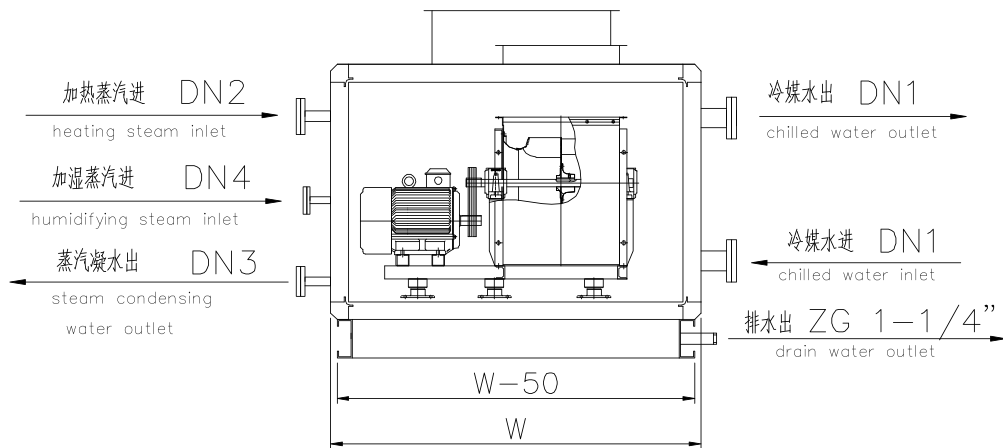
外形尺寸及重量 | Dimension and Weight

ZAHU 型船用紧凑间接式空调器外形尺寸图

ZAHU Marine Compact Indirect AC Unit Dimension Diagram



A向



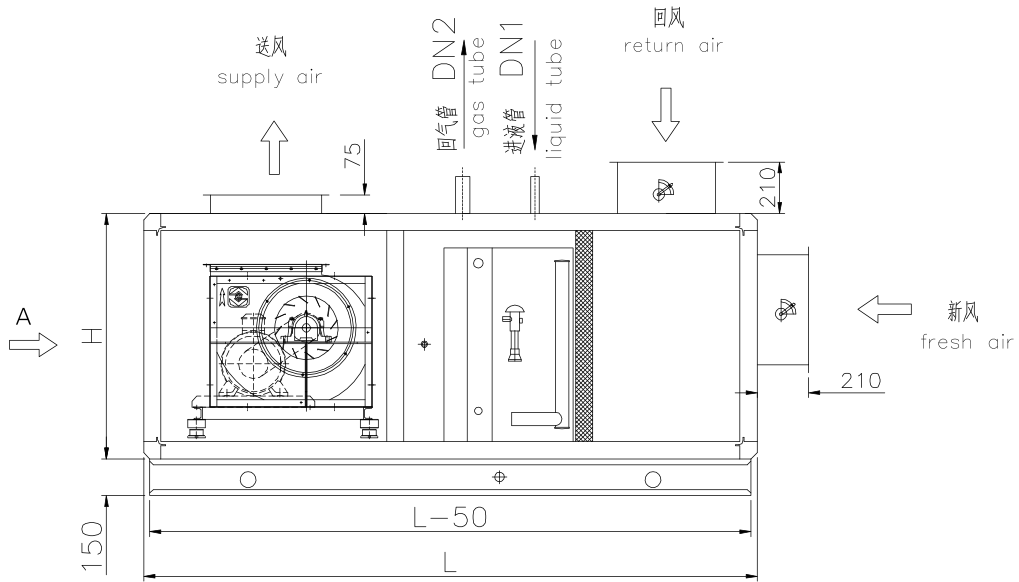
型号 Model	L	W	H	DN1	DN2	DN3	DN4	重量 weight
ZAHU0909	2400	950	950	DN32	DN25	DN20	DN15	~500Kg
ZAHU1109	2500	1150	950	DN40	DN25	DN20	DN15	~700Kg
ZAHU1309	2600	1350	950	DN50	DN25	DN20	DN15	~900Kg
ZAHU1509	2700	1550	950	DN50	DN25	DN20	DN15	~1050Kg
ZAHU1510	2800	1550	1050	DN50	DN32	DN25	DN15	~1150Kg
ZAHU1610	2800	1650	1050	DN65	DN32	DN25	DN15	~1250Kg
ZAHU1710	2900	1750	1050	DN65	DN32	DN25	DN15	~1400Kg
ZAHU1711	2900	1750	1150	DN65	DN32	DN25	DN15	~1550Kg
ZAHU1812	3000	1850	1250	DN80	DN40	DN32	DN20	~1700Kg
ZAHU1813	3100	1850	1350	DN80	DN40	DN32	DN20	~1850Kg
ZAHU1912	3000	1950	1250	DN80	DN40	DN32	DN20	~1900Kg
ZAHU2013	3100	2050	1350	DN80	DN40	DN32	DN20	~2100Kg
ZAHU2214	3200	2250	1450	DN100	DN40	DN32	DN20	~2350Kg
ZAHU2215	3300	2250	1550	DN100	DN50	DN40	DN25	~2550Kg
ZAHU2416	3400	2450	1650	DN100	DN50	DN40	DN25	~2900Kg
ZAHU2516	3500	2550	1650	DN100	DN50	DN40	DN32	~3200Kg
ZAHU2617	3700	2650	1750	DN125	DN50	DN40	DN32	~3500Kg
ZAHU2819	4000	2850	1950	DN125	DN65	DN40	DN32	~3900Kg

注：机组长度为紧凑型空调器的尺寸，功能配置不同时，请与我司确认机组长度。

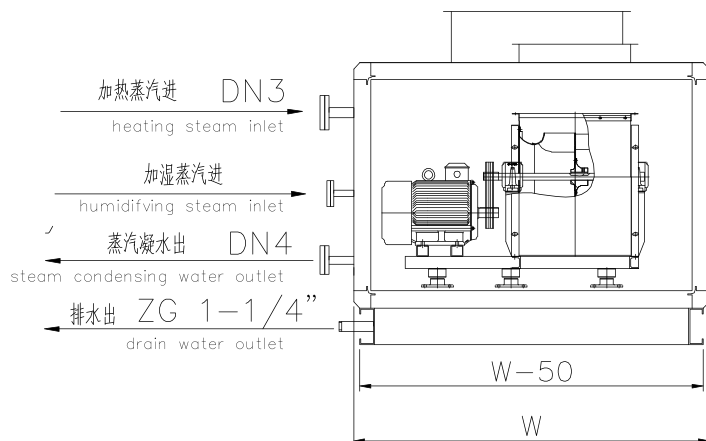
Note: The length in the form is compact size, when in different configuration, please contract us.

外形尺寸及重量 | Dimension and Weight

ZAHU 型船用紧凑型直接式空调器外形尺寸图
ZAHU Marine Compact Direct AC Unit Dimension Diagram



A向



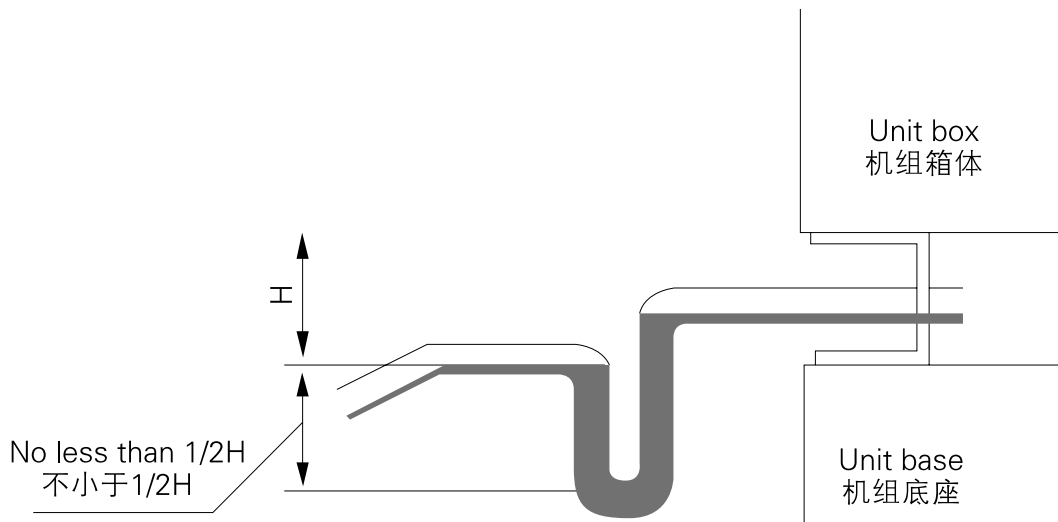
型号 Model	L	W	H	DN1	DN2	DN3	DN4	重量 weight
ZAHU0909	2400	950	950	1X7/8"	1X1-3/8"	DN25	DN20	~500Kg
ZAHU1109	2500	1150	950	1X7/8"	1X1-3/8"	DN25	DN20	~700Kg
ZAHU1309	2600	1350	950	1X7/8"	1X1-5/8"	DN25	DN20	~900Kg
ZAHU1509	2700	1550	950	1X1-1/8"	1X1-5/8"	DN25	DN20	~1050Kg
ZAHU1510	2800	1550	1050	1X1-1/8"	1X2-1/8"	DN32	DN25	~1150Kg
ZAHU1610	2800	1650	1050	1X1-1/8"	1X2-1/8"	DN32	DN25	~1250Kg
ZAHU1710	2900	1750	1050	1X1-1/8"	1X2-1/8"	DN32	DN25	~1400Kg
ZAHU1711	2900	1750	1150	1X1-1/8"	1X2-1/8"	DN32	DN25	~1550Kg
ZAHU1812	3000	1850	1250	1X1-1/8"	1X2-5/8"	DN40	DN32	~1700Kg
ZAHU1813	3100	1850	1350	2X7/8"	2X2-1/8"	DN40	DN32	~1850Kg
ZAHU1912	3000	1950	1250	1X1-1/8"	1X2-5/8"	DN40	DN32	~1900Kg
ZAHU2013	3100	2050	1350	2X1-1/8"	2X2-1/8"	DN40	DN32	~2100Kg
ZAHU2214	3200	2250	1450	2X1-1/8"	2X2-1/8"	DN40	DN32	~2350Kg
ZAHU2215	3300	2250	1550	2X1-1/8"	2X2-1/8"	DN50	DN40	~2550Kg
ZAHU2416	3400	2450	1650	2X1-1/8"	2X2-5/8"	DN50	DN40	~2900Kg
ZAHU2516	3500	2550	1650	2X1-3/8"	2X2-5/8"	DN50	DN40	~3200Kg
ZAHU2617	3700	2650	1750	1X1-5/8"	DN100	DN50	DN40	~3500Kg
ZAHU2819	4000	2850	1950	1X2-1/8"	DN100	DN65	DN40	~3900Kg

注：机组长度为紧凑型空调器的尺寸，功能配置不同时，请与我司确认机组长度。

Note: The length in the form is compact size, when in different configuration, please contract us.

其他说明 | Other Introduction

- 1、机组方向：顺气流方向，盘管进出水管在左侧的为左方向机组，反之则为右方向机组。
Unit direction: For favorable current direction, the unit inlet and outlet water pipe of coil in left side will be left-direction unit and right side will be right-direction unit
- 2、公司也可以根据用户提供的不同工况要求进行非标设计，选择最优机型。
Our company is also able to design according to customer's requirements for selecting optimal unit type.
- 3、机组基础要求：
Unit basic requirements:
机组基础按机组长度和宽度设计，必须保持水平平整。
基础要高于地面，便于设置凝结水存水弯，如图：
The basic frame of unit is designed in terms of its length and width, unit must be kept horizontal balance.
The base should be higher than ground for design of water trap for condensing water.



Note: $H = \text{Max. Negative Pressure (MM)} + 50\text{MM}$
注: $H = \text{最大负压 (mm)} + 50\text{mm}$

- 4、接管时注意：冷水盘管、热水盘管设计使用压力为 1.6MPa。
Tube connection tips: Designed pressure of cool water coil and hot water coil will be 1.6MPa.
- 5、机组开机时注意通过调节风管系统内的风量调节阀，把机组内电机运行时的工作电流控制在电机额定电流值之内，不允许超风量或超电流运行。
When connect unit to electricity, remember to control working current of motor under rated current through regulating air flow regulation valve inside air pipe system, no over air flow or over current is allowed during running of unit.

- 6、凡新风机组所处环境温度或进风温度 $\leq 2^{\circ}\text{C}$ 时，在机组进风口要设置预热装置，系统上应在新风口安装密闭调节阀和防冻开关，并与送风机连锁。

When surrounding temp. for fresh air unit or air inlet temp. $\leq 2^{\circ}\text{C}$,pre-heating device should be installed in air inlet of the unit, enclosed regulation valve、anti-freezing switch will be fitted in fresh air inlet and interlocked with air blowing unit.

- 7、如需订购全新风热回收转轮机组，请于我司联系。

If you want to order enthalpy recovery wheel , Please contact us.

