

CYZ

组合式(净化)空调机组

Purifying & Combination
air conditioner

 **南京创元中央空调有限公司**
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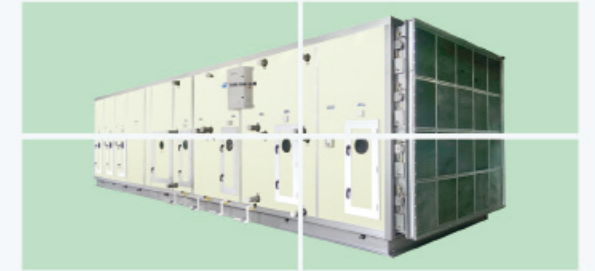


Creating green environment,
building energy-saving source

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概述 Description

本公司具有完善的空调实验、检测设备，设有三维、CAD计算机辅助设计工作站。CYZ系列组合式（净化）空调机组采用模块化设计，结构简单，机组灵活，并可以按用户要求设计专用组合式（净化）空调机组，设计周期短、可靠性高。创元组合式（净化）机组采用三维、CAD计算机辅助设计，并根据大量实验数据开发了空调机组表冷器、加热器热工计算软件。产品应用先进的生产线生产箱体、换热器、骨架、构件等，广泛应用于舒适性空调、工艺性空调及空气净化处理。

The coMPany has improved air conditioning experiments, testing equipment, with three-D, CAD computer-aided design workstation, CYZ series of (purification) modular air-conditioning unit use of modular design, simple structure, and very flexible, you can choose special air condition unit according to your requirements, design cycle is short, and high reliability. Create three-D element air condition unit, CAD computer-aided design, and developed its own form of cold air condition unit, heater thermal calculation software, products widely used central air conditioning terminal field. The production use advanced production line to make the box, heat exchanger, frame, components and so on, Widely used in comfort air conditioning, industrial air conditioning and air purification process.

创元组合式（净化）机组的特点

CYZ series of (purification) modular air-conditioning unit features

- **优质—先进的生产线保证了产品的高水准、高质量；**
Quality - advanced production lines to ensure the products of high standard, high-quality;
- **可靠—组合式空调机组经热工测试和计算机精密计算，保证了创元CYZ空调（净化）机组设计的严格标准和制造的高质量要求；**
Reliable - air condition units have thermal testing and computers precise calculation to ensure of air conditioning design element with strict quality standards and high quality manufacturing requirements;
- **创新—盘管表冷器采用新型翅片设计，降低风阻力，减少电机能耗，多种回路设计，适应不同的运行工况，降低水阻力，提高换热效率，倾斜式样保温水盘，保证凝结水迅速排除，使水盘保持干式状态。**
Innovation - finned coil puts forward a new design, reduce the air resistance, reduce the energy consumption of the motor, a variety of circuit design, adapt to different operating conditions, reduce water resistance, increase in thermal efficiency, tilting insulation water dish, ensure the condensate quickly ruled out, keep the water tray dry state.
- **优材—采用优质板材以及高绝热的高压聚氨酯硬质发泡保温材料，保证箱体的耐压、密封、隔热和强度的良好性能。**
Excellent material - made of high quality metal sheet and high-pressure polyurethane rigid insulation foam materials to ensure that the box can bear high pressure, seal, good thermal insulation and strength.
- **简单—模块化设计、整机或散件出厂，现场快速组装、便于维修和保养容易，达到选用简便、维护保养简单；**
Simple - the modular design, whole set or components delivery ,site rapid on-site assembly, maintenance simple and easy to maintain, easy to use, the combination of simple, easy maintenance;
- **弹性—除标准模数设计外，可按用户独有需求进行非标设计，可最大限度满足用户的各种场合；**
Flexibility - besides standard module design, the non-standard product can be designed by the user's unique needs, can best meet the user's various occasions;
- **服务—保用一年、提供终身维修服务、公司为每位用户建档。**
Service - one year warranty and provide lifetime maintenance services, the coMPany filing for each user.

CYZ组合式（净化）机组的设计制造水平

CYZ series of (purification) modular air-conditioning unit design and manufacture level

- **新技术、新构思**
- **New technology, new ideas**

CYZ型系列组合式（净化）机组以高水准的四条引进生产线和卓越的设计、精密的制造来保证可靠的性能。经过五代改进推出全新设计，CYZ系列组合式（净化）空调机组融入新型平面密封、高绝热复合壁板、低风阻的国际水准表冷器于一体。组合式空调机组可以分段出厂、整机出厂，也可以组件出厂，现场精密组装。

CYZ series of (purification) modular air-conditioning unit use four high standard imported production lines and excellent design, precision manufacturing to ensure the reliable function. we launched a new design after five times' reformation, CYZ series of (purification) modular air-conditioning unit put into the new flat sealing technology, high thermal insulation composite panel and low air resistance in the international standard cooler. Air condition unit can be set out of the factory in segments or the whole machine and can also be components, on-site precision assembly.

- **运转稳定可靠**
- **Stable and reliable operation**

结构设计以简单、可靠的组合保证了组合式（净化）机组高效率的工作；优性能高绝热复合壁板克服了组合式（净化）机组上难以解决的冷桥现象，优良的减振系统保证了空调机组的平稳运行。

Combined with simple and reliable design to ensure the air condition unit work in a high efficient; excellent high-performance thermal insulation composite panels overcome the difficulty to resolve the phenomenon of cold bridges on the air condition unit, excellent damping system ensures smooth operation of the air condition unit.

- **宁静的运行**
- **Quiet operation**

低噪声运行是创元公司的宗旨、创元空调首选国产优质风机，如用户特殊有需要，也可以配用进口优质品牌风机，如科禄格等。

Low noise operation is the goal of our coMPany. We choose high-quality air-conditioning fans, if the user has special need, imported high quality brand fans will be equipped with, such as Kruger and so on.

- **客户的需要是公司追求的目标**
- **The needs of customers is the goal of our coMPany**

全新的表冷器生产线可以提供多种表冷器、加热器规格以满足客户，热工性能计算软件可快速为表冷器热工数据提供设计计算，以及满足客户特殊要求的设计计算。

The new production line of coolers can provide a variety of coolers, heaters to meet customers' special requirement, Thermodynamic performance calculation software quickly provide the cooler thermal data for the design calculations, and to meet the customers' special requirements of design and calculation.

- **使用寿命长**
- **Long service life**

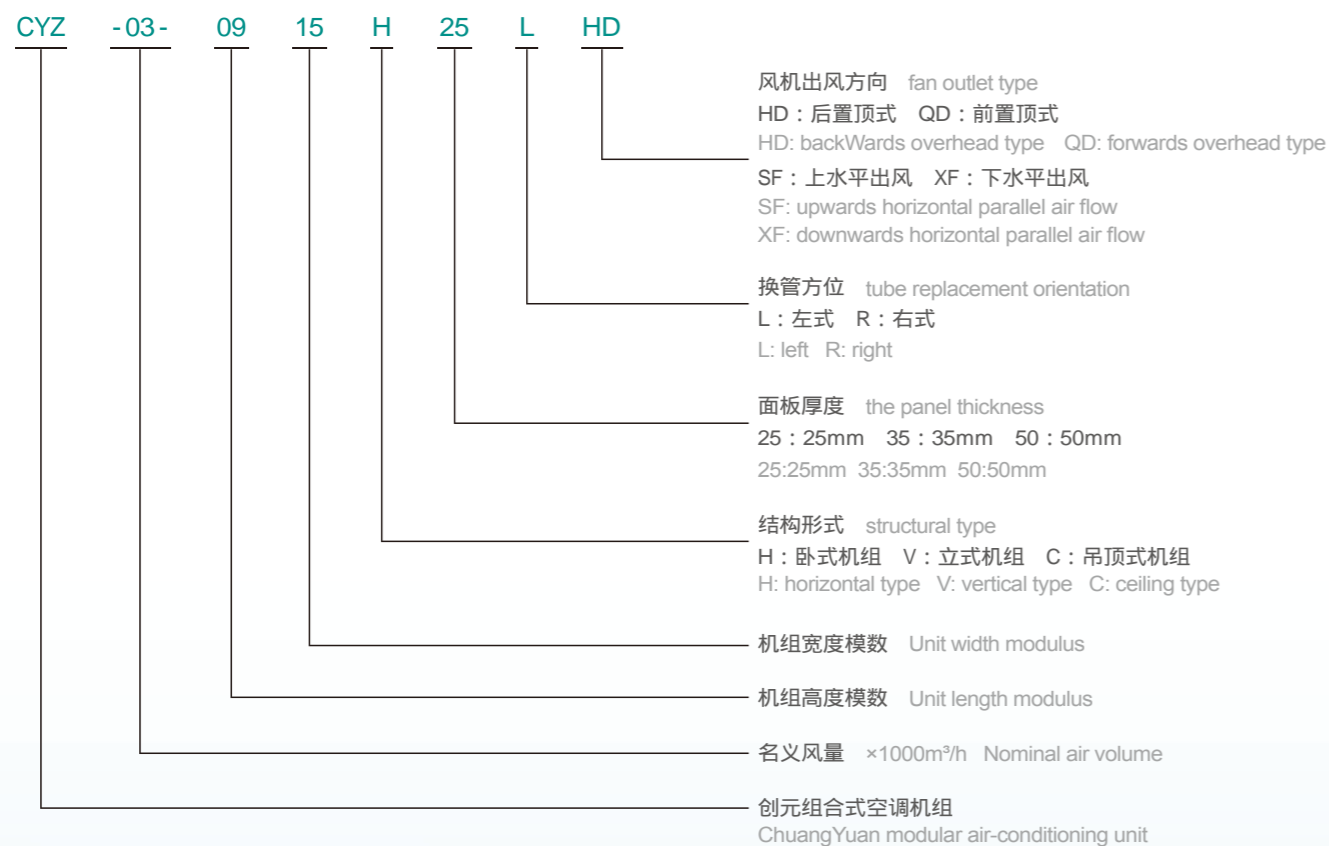
聚氨酯发泡箱板无需经常表面维护，十五年寿命理想使用。
Polyurethane foam box plate surface without regular maintenance, the ideal using is fifteen years.

- 便利的维护
- Convenient to maintain

CYZ系列组合式(净化)机组可以容易地卸下需维护的功能段的箱体保温板,以对故障部位进行检修,而对其它功能段没有影响,修理完毕再顺利装上壁板,对于机房狭小的场所尤为适用。公司对每位用户电脑建档,用户可以随时和本公司联系查询档案为修理提供服务,数控钣金中心和数控折弯中心可以快速调出储存加工单件,以便和原件一致。

CYZ series of(purification) modular air-conditioning unit can easily remove the box plate which functional section need to maintain, in order to repair the fault parts, but had no effect on other functional segments, after repairing completed, then smoothly loaded on a wall, it is particularly applicable to small motor room. CoMPany's computer database for each user, the user can contact the coMPany at any time and check the file for the repair service, CNC sheet metal centers and CNC bending center can quickly adjust the storage and processing units, in order to fit for originals.

型号命名 Model description



机组左右式判断方法

Method to judge air condition unit left type and right type

顺气流方向, 盘管进出水管检修门在左侧则为左式, 反之为右式机组。

Along the airflow direction, coil inlet and outlet pipe's access door on the left side is left type, and vice versa for the right type units.

标准型快速选型表 Standard mode quick selection table

型号 CYZ- model CYZ-	名义风量 m^3/h rated air volume m^3/h	盘管迎风 面积 (m^2) coil face velocity	风量 m^3/h air volume m^3/h				风机叶轮 直径 Φmm Fan impeller diameter Φ	风机性能 fan performance	
			盘管迎面风速 coil face velocity					最大风机 全压Pa Maximum fan total pressure Pa	最大电机 功率kW Maximum fan total power KW
			2.25m/s	2.5m/s	2.75m/s	3.0m/s			
03-0509	3000	0.32	2624	2916	3207	3499	200	1300	3
04-0609	4000	0.41	3280	3645	4009	4374	225	1500	3
05-0612	5000	0.55	4471	4968	5464	5961	250	1800	5.5
06-0810	6000	0.63	5092	5657	6223	6789	280	1800	7.5
07-0812	7000	0.77	6246	6940	7634	8328	280	1800	7.5
08-0912	8000	0.90	7274	8083	8891	9699	315	1800	7.5
09-0815	9000	0.97	7887	8763	9639	10516	315	1800	11
10-0915	10000	1.15	9321	10356	11392	12428	355	2000	11
12-0917	12000	1.32	10685	11872	13059	14246	400	2000	15
15-1118	15000	1.73	13990	15544	17099	18653	450	2000	15
18-1218	18000	1.84	14864	16516	18167	19819	500	2000	18.5
20-1220	20000	2.04	16534	18372	20209	22046	500	2000	18.5
25-1323	25000	2.65	21470	23856	26241	28627	560	2000	22
30-1523	30000	2.81	22734	25260	27786	30312	630	2000	30
35-2020	35000	3.39	27421	30467	33514	36561	630	2000	30
40-2024	40000	4.09	33109	36788	40467	44146	710	2000	30
45-2323	45000	4.74	38420	42689	46958	51227	800	2000	37
50-2226	50000	5.09	41197	45774	50352	54929	800	2000	45
55-2427	55000	5.94	48109	53454	58800	64145	900	2000	45
60-2431	60000	6.87	55644	61826	68009	74192	900	2000	45
70-2631	70000	7.33	59353	65948	72543	79138	900	2000	55
80-2634	80000	8.07	65381	72646	79910	87175	1000	2000	75
90-2540	90000	8.96	72597	80664	88730	96796	1000	2000	75
100-2840	100000	10.16	82277	91419	100561	109703	1120	2000	110
120-3540	120000	12.55	101636	112929	124222	135515	1250	2000	110
140-3648	140000	15.28	123772	137525	151277	165030	1250	2000	132
160-3654	160000	17.37	140726	156362	171998	187634	1400	2000	160
180-3463	180000	19.15	155079	172310	189541	206772	1000 \times 2	2000	75 \times 2
200-3665	200000	21.08	170755	189727	208700	227673	1120 \times 2	2000	110 \times 2
240-3872	240000	25.09	203236	225818	248400	270982	1250 \times 2	2000	110 \times 2

注 Note:

- 本表格所列常用标准机型的快速选型。
Listed in this table is used for standard mode quick selection.
- 以上的风机全压为额定风量下, 标准功能段配置的全压。风机全压=机外余压+机组内部阻力, 内部阻力具体数值可参考后面的功能段阻力表。
The above fan total pressure is under the rated air volume, matched the standard section. Fan total pressure = machine external pressure + units internal resistance, the internal resistance of the specific value can refer to functional section air resistance table .

功能段分类表

Functional section classification table

序号 NO.	功能段名称 section name	检修门设置 Access door	功能段具体功能 Functional section specific functions
1	新回风(混合段)/出风段 fresh and return air section(mixing air section)/ air outlet section	有 Yes	新风、回风的混合 The mix of fresh air and return air
2	初效过滤段 Primary filter section	无 No	新回风的过滤,可与混合段合并,前面要有检修门 Fresh air and return air filter, could combine with mixing box section, install access door in front of it
3	排风新风段 Fresh& exhaust air section	有 Yes	系统排风和新风,与风机配合使用 Fresh& exhaust air system, using with fan.
4	中间段 Middle section	有 Yes	设在因连接、维护必须之部位 Set in connection and maintain place
5	表冷挡水段 Cooling coil with eliminator section	(4排) (4 rows)	冷却及挡水,风速超过2.65m/s或断面高度大时设置挡水板 Cooling and dewatering, air velocity over 2.65m/s or fracture surface is too big, set the water baffle
6		(6排) (6 rows)	
7		(8排) (8 rows)	
8	蒸汽(热水)加热段 Steam (hot water) heating section	(1排) (1 row)	电加热前需要设置挡水板 Water baffle should be set in front of the EL-Heating
9		(2排) (2 rows)	
10	电加热段 EL-heater section	无 No	
11	干蒸汽加湿段 Dry steam humidify section	无 No	一般置于加热段后部 Normally set behind of the heating section
12	中效出风段 Intermediate—efficiency out-let air section	有 Yes	中效过滤、出风口在顶部或端部 Intermediate—efficiency filter、top air outlet at the top or fringe
13	电加湿段及其它加湿段 El-humidifying and other	无 No	加湿,前面需有检修门 Humidifying, access door should be set in front of it
14	风机段 fan section	有 Yes	加压、二次回风混合(加压和排风) Pressure、second mix return air mix (pressurized and exhaust air)
15	风机出风段 fan and outlet air section	有 Yes	加压、顶部、水平送风 Pressurized, top, horizontal parallel air flow
16	均流段 Uniform flow section	有 Yes	均流,风机后有功能段时置于风机出口处 Uniform flow, there are any functional section behind the fan, located in the outlet of the fan
17	消声段 Muffler section	无 No	消声 Muffler
18	喷淋段 spray section	有 Yes	冷却、加湿、净化功能 Cooling and humidifying, modular air-conditioning
19	热回收段 Heat recovery section	板翅 plate-fin heat recovery	用于室内排风的能量回收,前面放置检修门 Used for indoor exhaust air energy recovery, access door should be set in front of it
20		转轮 rotary heat recovery	
21		热管 heat pipe heat recovery	

注 Note :

如有其他需要的功能段请与创元市场部联系

If you have any other required functional section, please contact ChuangYuan Marketing department.

标准机型性能参数表—制冷回风工况

Standard model performance parameters table-cooling return air working condition

型号 CYZ-	名义风量 m³/h	4排 4rows				6排 6rows				8排 8rows			
		全冷量 kW	水量 m³/h	水阻力 kPa	管径 DN	全冷量 kW	水流量 m³/h	水阻力 kPa	管径 DN	全冷量 kW	水流量 m³/h	水阻力 kPa	管径 DN
model CYZ-	rated air volume m³/h	Whole cooling capacity KW	water volume m³/h	Water pressure Pa	water volume DN	Whole cooling capacity KW	water volume m³/h	Water pressure Pa	water volume DN	Whole cooling capacity KW	water volume m³/h	Water pressure Pa	water volume DN
03-0509	3000	18	2.9	7.8	40	23	3.7	10.6	40	26	4.6	11.8	40
04-0609	4000	22	3.6	12.9	40	28	4.7	17.4	40	32	5.7	19.4	40
05-0612	5000	28	4.6	20	40	36	6.0	27	40	40	7.1	30	40
06-0810	6000	35	5.8	18.3	40	46	7.6	24.8	40	51	9.0	27.6	40
07-0812	7000	39	6.5	19.5	40	50	8.4	26.4	40	57	10.0	29.3	50
08-0912	8000	50	8.4	20.4	40	65	11.0	27.6	40	71	12.5	30.7	50
09-0815	9000	52	8.7	21.2	40	67	11.3	28.7	40	75	13.2	31.9	50
10-0915	10000	63	10.6	20	40	79	13.4	27	40	88	15.4	12.8	50
12-0917	12000	73	12.4	22	40	95	16.1	28	50	105	18.2	13.6	50
15-1118	15000	86	14.6	27.8	50	110	18.7	16	50	122	21.3	15.2	65
18-1218	18000	115	19.6	14.9	65	153	26.1	20.1	65	169	29.4	22.4	65
20-1220	20000	120	20.4	16.9	65	148	25.3	22.9	65	163	28.3	25.5	80
25-1323	25000	157	26.8	17	65	208	35.6	23.2	65	229	39.5	26.1	80
30-1523	30000	182	31.1	17.5	50	226	38.6	24.1	65	250	43.1	26.9	65
35-2020	35000	202	34.5	18.6	65	259	44.4	25.1	65	287	49.6	27.9	65
40-2024	40000	259	44.3	23	65	308	52.8	29.9	65	340	58.7	14.2	65
45-2323	45000	289	49.5	23.5	65	348	59.7	18.7	65	383	66.1	13.9	65
50-2226	50000	303	51.9	25.2	65	370	63.4	20.7	65	407	70.3	16.1	65
55-2427	55000	367	62.9	28	80	401	68.8	23	65	443	76.4	18.2	65
60-2431	60000	389	66.7	31.5	80	462	79.3	25.8	65	510	87.9	19.7	65
70-2631	70000	432	74.1	14.4	80	532	91.3	28.6	65	587	101.1	22.7	80
80-2634	80000	475	81.5	15.3	80	602	103.3	34.2	65	634	109.2	24.6	80
90-2540	90000	537	92.2	19.5	80	714	122.6	36.8	80	728	125.5	28.9	80
100-2840	100000	623	107.0	19.8	80	864	148.4	38.6	80	864	148.9	29.8	80
120-3540	120000	772	132.6	24.8	80	940	161.5	36.2	80	941	162.0	37.8	80
140-3648	140000	847	145.5	27.1	80	980	168.4	35	80	980	168.8	42.5	80
160-3654	160000	981	168.5	31.2	80	1094	188.0	44.5	80	1096	188.7	20.4	80
180-3463	180000	1182	203.1	29.5	80	1324	227.5	41.2	80	1325	228.1	17.6	80
200-3665	200000	1234	212.0	34.5	80	1467	252.1	48.2	80	1468	252.7	28.9	100
240-3872	240000	1558	267.8	45.6	80	1780	305.9	65.3	80	1781	306.5	72	100

注 Note :

- 额定供冷回风工况条件,干球温度27℃,湿球温度19.5℃,冷冻水进出水温度7/12℃。
Rated cooling return air condition: dry bulb temperature is 27℃, wet bulb temperature is 19.5℃,the inlet chilled water temperature is 7℃,the outlet temperature is 12℃.
- 盘管为铜管铝翅片,片距为8-14片/英寸。
Coils are copper tube with aluminum fins, pitch of fins is 8 to 14 slice/inch.
- 表中数据仅供参考,实际选用请与创元市场部联系。
The data in the table is for reference only, Please contact ChuangYuan Marketing department at the actual selection.

标准机型性能参数表—制冷新风工况

Standard model performance parameters table-cooling fresh air working conditions

型号 CYZ-	名义风量 m³/h	4排 4rows				6排 6rows				8排 8rows			
		全冷量 kW	水量 m³/h	水阻力 kPa	管径 DN	全冷量 kW	水流量 m³/h	水阻力 kPa	管径 DN	全冷量 kW	水流量 m³/h	水阻力 kPa	管径 DN
model CYZ-	rated air volume m³/h	Whole cooling capacity KW	water volume m³/h	Water pressure Pa	water volume DN	Whole cooling capacity KW	water volume m³/h	Water pressure Pa	water volume DN	Whole cooling capacity KW	water volume m³/h	Water pressure Pa	water volume DN
03-0509	3000	41	6.8	34	40	51	8.6	28	40	56	9.8	46	40
04-0609	4000	54	9.1	27	40	70	11.8	52	40	72	12.6	44	40
05-0612	5000	68	11.5	43	40	83	14.1	51	40	96	16.7	18	40
06-0810	6000	81	13.8	29	50	102	17.3	34	50	113	19.6	51	50
07-0812	7000	95	16.1	25	50	120	20.4	51	50	130	22.6	45	50
08-0912	8000	108	18.4	36	65	130	22.1	41	50	147	25.5	26	50
09-0815	9000	122	20.7	44	65	156	26.6	34	65	162	28.0	49	65
10-0915	10000	135	23.1	41	65	172	29.4	32	65	191	33.1	45	65
12-0917	12000	162	27.7	55	65	198	33.8	43	65	217	37.5	45	65
15-1118	15000	197	33.6	36	65	245	42.0	45	65	270	46.6	62	65
18-1218	18000	236	40.4	43	65	291	49.9	53	65	315	54.4	76	80
20-1220	20000	262	44.9	57	65	318	54.5	69	80	362	62.5	96	80
25-1323	25000	328	56.2	49	80	405	69.5	91	80	437	75.4	125	80
30-1523	30000	393	67.4	47	65	506	86.9	61	65	549	94.7	76	80
35-2020	35000	459	78.7	46	65	567	97.4	57	65	645	111.1	82	80
40-2024	40000	524	90.0	47	65	647	111.1	85	65	704	121.4	110	80
45-2323	45000	590	101.2	51	65	753	129.2	94	80	803	138.4	174	80
50-2226	50000	655	112.5	69	80	788	135.4	128	80	877	151.0	172	80
55-2427	55000	721	123.8	66	80	878	150.8	76	80	995	171.3	52	80
60-2431	60000	786	135.0	50	80	952	163.5	53	80	1100	189.5	51	80
70-2631	70000	917	157.6	55	80	1131	194.3	55	80	1291	222.3	56	80
80-2634	80000	1048	180.1	37	80	1304	224.1	48	80	1389	239.1	69	80
90-2540	90000	1179	202.6	54	80	1500	257.8	69	80	1570	270.2	98	100
100-2840	100000	1310	225.2	60	80	1648	283.3	80	80	1817	312.7	110	100
120-3540	120000	1572	270.2	75	80	1927	331.2	96	80	2092	360.1	115	100
140-3648	140000	1834	315.3	52	80	2261	388.7	55	100	2554	439.5	58	100
160-3654	160000	2096	360.4	36	80	2507	431.0	49	100	2846	489.7	72	100
180-3463	180000	2358	405.4	58	80	2985	513.2	69	100	3270	562.6	89	100
200-3665	200000	2620	450.5	62	80	3191	548.6	76	100	3540	609.1	108	100
240-3872	240000	3144	540.6	75	80	3979	684.2	85	100	4195	721.8	121	100

注 Note :

- 额定供冷新风工况条件, 干球温度35℃, 湿球温度28℃, 冷冻水进出水温度7/12℃。
Rated cooling fresh air condition: dry bulb temperature is 35℃, wet bulb temperature is 28℃, the inlet chilled water temperature is 7℃, the outlet temperature is 12℃.
- 盘管为铜管铝翅片, 片距为8-14片/英寸。
Coils are copper tube with aluminum fins, pitch of fins is 8 to 14 slice/inch.
- 当水阻力超过允许范围时可以提高冷冻水温差, 降低水流量和进水温度来降低阻力。
When the water resistance exceed the permitted range can be increased the chilled water temperature difference, reducing the water flow rate and inlet temperature to reduce resistance.
- 表中数据仅供参考, 实际选用请与创元市场部联系。
The data in the table is for reference only, please contact ChuangYuan Marketing department at the actual selection.

标准机型性能参数表—热水制热回风工况

Standard model performance parameters table-hot water heating return air working conditions

型号 CYZ-	名义风量 m³/h	1排 1row				2排 2rows			
		全冷量 kW	水量 m³/h	水阻力 kPa	管径 DN	全冷量 kW	水流量 m³/h	水阻力 kPa	管径 DN
model CYZ-	rated air volume m³/h	Whole cooling capacity KW	water volume m³/h	Water pressure Pa	water volume DN	Whole cooling capacity KW	water volume m³/h	Water pressure Pa	water volume DN
03-0509	3000	10	0.9	1	40	18	1.5	1	65
04-0609	4000	14	1.2	2	40	24	2.1	1	65
05-0612	5000	17	1.5	3	40	30	2.5	2	65
06-0810	6000	21	1.8	3	40	36	3.1	2	65
07-0812	7000	24	2.1	4	40	42	3.6	2	65
08-0912	8000	28	2.4	9	40	48	4.1	3	65
09-0815	9000	31	2.7	7	40	53	4.6	7	65
10-0915	10000	35	3.0	11	40	59	5.1	5	65
12-0917	12000	42	3.6	15	40	71	6.1	8	65
15-1118	15000	52	4.5	16	40	89	7.7	11	65
18-1218	18000	62	5.3	21	40	107	9.2	12	65
20-1220	20000	69	5.9	22	40	119	10.3	15	65
25-1323	25000	85	7.3	24	50	149	12.9	17	65
30-1523	30000	103	8.8	20	40	177	15.3	18	50
35-2020	35000	121	10.4	27	40	208	17.9	15	50
40-2024	40000	139	12.0	30	40	240	20.6	21	50
45-2323	45000	154	13.2	43	40	266	22.9	22	50
50-2226	50000	175	15.0	42	40	299	25.7	32	50
55-2427	55000	189	16.2	41	40	327	28.1	9	50
60-2431	60000	210	18.1	43	40	358	30.8	7	50
70-2631	70000	244	21.0	42	40	414	35.6	9	50
80-2634	80000	278	23.9	46	40	479	41.2	14	65
90-2540	90000	312	26.8	52	50	537	46.1	16	65
100-2840	100000	350	30.1	48	50	598	51.5	18	65
120-3540	120000	415	35.7	13	50	709	61.0	9	50
140-3648	140000	481	41.4	18	3	834	71.7	9	50
160-3654	160000	560	48.1	15	50	959	82.5	10	50
180-3463	180000	612	52.6	22	50	1063	91.5	8	50
200-3665	200000	694	59.7	21	50	1195	102.8	9	50
240-3872	240000	825	71.0	29	50	1422	122.3	10	50

注 Note :

- 额定供冷回风工况条件, 干球温度15℃, 热水进出水温度60/50℃。
Rated cooling return air condition: dry bulb temperature is 15℃, the inlet/outlet hot water temperature is 60℃/50℃.
- 盘管为铜管铝翅片, 片距为8-14片/英寸。
Coils are copper tube with aluminous fins, pitch of fins is 8 to 14 slice/inch.
- 表中数据仅供参考, 实际选用请与创元市场部联系。
The data in the table is for reference only, please contact ChuangYuan Marketing department at the actual selection.

标准机型性能参数表—热水制热新风工况

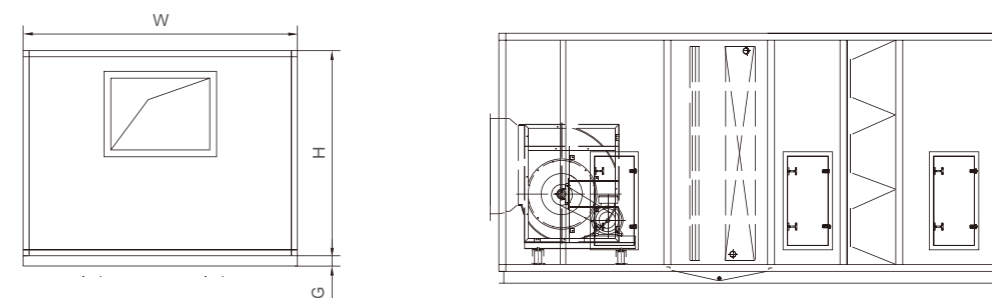
Standard model performance parameters table-hot water heating fresh air working conditions

型号 CYZ- model CYZ-	名义风量 m³/h rated air volume m³/h	1排 1row				2排 2rows			
		全冷量 kW Whole cooling capacity KW	水量 m³/h water volume m³/h	水阻力 kPa Water pressure Pa	管径 DN water volume DN	全冷量 kW Whole cooling capacity KW	水流量 m³/h water volume m³/h	水阻力 kPa Water pressure Pa	管径 DN water volume DN
03-0509	3000	18	1.5	6.9	65	29	2.5	4.5	65
04-0609	4000	24	2.0	8.0	65	39	3.3	10.9	65
05-0612	5000	30	2.6	5.2	65	48	4.2	21.9	65
06-0810	6000	35	3.0	11.4	65	58	5.0	5.9	65
07-0812	7000	41	3.6	9.1	65	68	5.8	12.5	65
08-0912	8000	47	4.0	3.4	65	77	6.6	14.9	65
09-0815	9000	53	4.5	6.9	65	87	7.5	6.2	65
10-0915	10000	59	5.1	9.1	65	97	8.3	12.4	65
12-0917	12000	70	6.1	4.2	65	116	10.0	17.4	65
15-1118	15000	88	7.6	9.0	65	145	12.5	8.1	65
18-1218	18000	105	9.1	12.3	65	174	14.9	16.8	65
20-1220	20000	118	10.1	10.0	65	193	16.6	8.7	65
25-1323	25000	147	12.6	14.4	65	241	20.7	9.7	80
30-1523	30000	178	15.3	8.2	65	288	24.8	34.4	80
35-2020	35000	206	17.7	17.4	65	336	28.9	16.3	65
40-2024	40000	235	20.2	24.6	65	384	33.0	33.3	65
45-2323	45000	266	22.9	12.1	65	432	37.2	50.5	65
50-2226	50000	297	25.5	21.1	65	482	41.4	24.5	65
55-2427	55000	324	27.8	38.9	65	533	45.8	22.7	65
60-2431	60000	356	30.6	15.4	65	581	50.0	39.2	65
70-2631	70000	412	35.4	13.6	50	675	58.0	26.1	65
80-2634	80000	470	40.4	23.6	50	774	66.6	22.7	80
90-2540	90000	532	45.8	17.2	50	873	75.0	43.7	80
100-2840	100000	587	50.5	16.0	50	960	82.6	39.8	80
120-3540	120000	714	61.4	37.3	50	1158	99.6	35.8	80
140-3648	140000	830	71.4	26.7	50	1353	116.3	67.7	80
160-3654	160000	948	81.6	23.2	50	1539	132.3	22.3	80
180-3463	180000	1067	91.8	19.9	50	1745	150.0	45.0	80
200-3665	200000	1181	101.6	22.1	50	1939	166.7	36.5	80
240-3872	240000	1423	122.3	26.2	50	2307	198.4	34.3	80

注 Note :

- 额定供冷新风工况条件，干球温度7℃，热水进出水温度60/50℃。
Rated cooling fresh air condition: dry bulb temperature is 7℃,the inlet/outlet hot water temperature is 60℃/50℃.
- 盘管为铜管铝翅片，片距为8-14片/英寸。
Coils are copper tube with aluminous fins, pitch of fins is 8 to 14 slice/inch.
- 表中数据仅供参考，实际选用请与创元市场部联系。
The data in the table is for reference only, please contact ChuangYuan Marketing department at the actual selection.

标准机型外形尺寸 Standard model overall dimension



型号 CYZ- model CYZ-	名义风量 m³/h rated air volume m³/h	25mm厚面板 25mm thickness plate		35mm厚面板 35mm thickness plate		50mm厚面板 50mm thickness plate	
		H(mm)	W(mm)	H(mm)	W(mm)	H(mm)	W(mm)
03-0509	3000	606	1014	626	1034	656	1064
04-0609	4000	708	1014	728	1034	758	1064
05-0612	5000	708	1320	728	1340	758	1370
06-0810	6000	912	1116	932	1136	962	1166
07-0812	7000	912	1320	932	1340	962	1370
08-0912	8000	1014	1320	1034	1340	1064	1370
09-0815	9000	912	1626	932	1646	962	1676
10-0915	10000	1014	1626	1034	1646	1064	1676
12-0917	12000	1014	1830	1034	1850	1064	1880
15-1118	15000	1218	1932	1238	1952	1268	1982
18-1218	18000	1320	1932	1340	1952	1370	1982
20-1220	20000	1320	2136	1340	2156	1370	2186
25-1323	25000	1422	2442	1442	2462	1472	2492
30-1523	30000	-	-	1646	2462	1676	2492
35-2020	35000	-	-	2156	2156	2186	2186
40-2024	40000	-	-	2156	2564	2186	2594
45-2323	45000	-	-	2462	2462	2492	2492
50-2226	50000	-	-	2360	2768	2390	2798
55-2427	55000	-	-	2564	2870	2594	2900
60-2431	60000	-	-	2564	3278	2594	3308
70-2631	70000	-	-	2768	3278	2798	3308
80-2634	80000	-	-	2768	3584	2798	3614
90-2540	90000	-	-	2666	4196	2696	4226
100-2840	100000	-	-	2972	4196	3002	4226
120-3540	120000	-	-	3686	4196	3716	4226
140-3648	140000	-	-	3788	5012	3818	5042
160-3654	160000	-	-	3788	5624	3818	5654
180-3463	180000	-	-	3584	6542	3614	6572
200-3665	200000	-	-	3788	6746	3818	6776
240-3872	240000	-	-	3992	7460	4022	7490

注 Note :

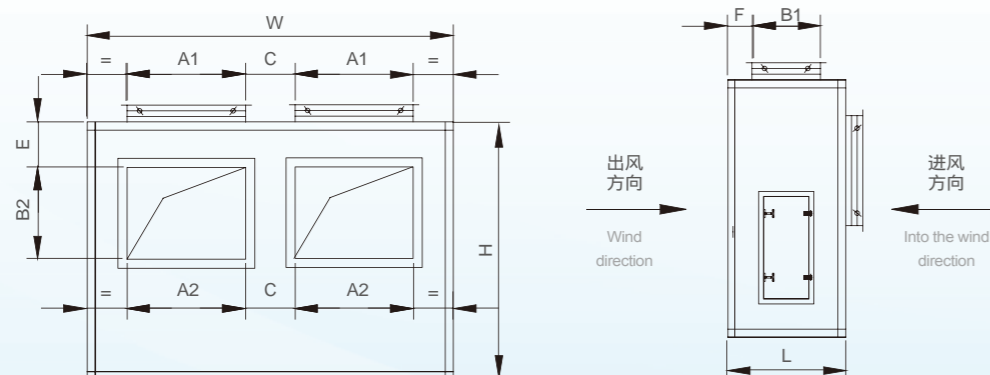
- 以上机组高度尺寸H不包含底座高度尺寸G。
The above unit height dimension H does not contain the base height dimension G.
- 吊顶式机组和25000m³/h以下风量机组底座高度采用80mm,25000m³/h到90000m³/h风量机组底座高度采用100mm,90000m³/h以上风量机组底座高度采用120mm。
Ceiling type unit and the unit which air volume is below 25000m³/h, base height using 80mm,from 25000m³/h to 90000m³/h air volume base height is 100mm,above 90000m³/h air volume base height using 120mm.
- CYZ机组采用模数化设计,断面尺寸模数1M=102mm
CYZ unit adopts the modular design, section size module 1 m = 102 m
机组高度H=高度模数 × 102+50+K
The unit height H = height modulus × 102 + 50 + K
机组宽度H=宽度模数 × 102+50+K
The unit width H = width modulus × 102 + 50 + K
K值根据机组面板尺寸,25mm面板为46mm,35mm面板为66mm,50mm面板为96mm。
The value of K selected according to the unit panel size, K value 25 mm panel is 46 mm, 35 mm panel is 66 mm, 50 mm panel is 96 mm.
- 段长尺寸模数1M=100mm,机组总长度=各个分段模数之和 × 100。
Section length dimension module 1 M = 100 mm, the total length of the unit = the sum of each section modulus by 100.

各功能段的外形尺寸及技术性能

Each functional section overall dimensions and technical performance

进风段/混合段/出风段

air-inlet section/ mixing section/air-outlet section



型号 CYZ-model CYZ-	名义风量 m³/h rated air volume m³/h	尺寸 (mm) Dimension							
		L	A1	B1	A2	B2	C	E	F
03-0509	3000	6M	500	400	500	400	-	200	105
04-0609	4000	6M	600	400	600	400	-	200	105
05-0612	5000	6M	700	400	700	400	-	200	105
06-0810	6000	6M	700	500	700	500	-	200	60
07-0812	7000	6M	600	500	600	500	-	200	60
08-0912	8000	6M	800	500	800	500	-	200	60
09-0815	9000	6M	1000	500	1000	500	-	200	60
10-0915	10000	7M	1000	600	1000	600	-	200	60
12-0917	12000	7M	800	600	800	600	-	200	60
15-1118	15000	7M	800	600	800	600	-	200	60
18-1218	18000	7M	1000	600	1000	600	-	200	60
20-1220	20000	7M	1000	600	1000	600	-	200	60
25-1323	25000	7M	1250	600	1250	600	-	200	60
30-1523	30000	7M	1250	600	1250	600	-	200	60
35-2020	35000	9M	1600	800	1600	600	-	200	60
40-2024	40000	9M	1600	800	1600	600	-	200	60
45-2323	45000	9M	1600	800	1600	600	-	200	60
50-2226	50000	9M	2000	800	2000	600	-	200	60
55-2427	55000	9M	2000	800	2000	600	-	200	60
60-2431	60000	9M	2000	800	2000	600	-	200	60
70-2631	70000	9M	2500	800	2000	600	-	200	60
80-2634	80000	9M	2500	800	2000	800	-	200	60
90-2540	90000	9M	2500	800	2000	800	-	200	60
100-2840	100000	11M	2500	1000	2500	1000	-	200	60
120-3540	120000	11M	3000	1000	2500	1000	-	300	60
140-3648	140000	11M	1800	1000	1250	1000	250	300	60
160-3654	160000	11M	2000	1000	1250	1000	250	300	60
180-3463	180000	11M	2500	1000	1600	1000	250	300	60
200-3665	200000	11M	2500	1000	1600	1000	250	300	60
240-3872	240000	13M	2500	1200	2000	1200	250	300	60

注 Note :

- 以上机组高度尺寸H不包含底座高度尺寸G。
The above unit height dimension H does not contain the base height dimension G.
- 混合段新、回风口标准配置为法兰接口,如用户要求配阀门,可配手动对开多叶密闭阀,也可配电动风阀满足自控要求,风阀的材料为镀锌板或铝合金可选。
Fresh air inlet and return air inlet in the mixing section is flanged connections, return air mouth standard for flange interface, if user need valve, can be equipped with multi-leaf containment valves, and also with electric air valve to meet the requirements of the automatic control, the material of the valve is galvanized sheet or aluminum alloy for option.
- 进风时,A1 × B1为新风阀通风截面积,A2 × B2为回风阀通风截面积,出风时两个风口取一个。
When the intake air, A1 × B1 is fresh air valve sectional area, A2 × B2 is return air valve sectional area, When the wind out, take one from the two outlet.
- 如按图进风方向所示气流形式,则为进风混合段,如按出风方向所示气流形式,为出风段。当按出风段时,如为平出风方式,无需出风口,为顶出风方式时,无侧面出风口。
As shown in Figure ,if the airflow form flow along the inlet airflow direction is the inlet air mixing section, as the airflow form flow along the outlet airflow direction is the outlet air section. When in accordance with air outlet section, if it is flat air out way, no outlet, is the top air out mode, no side outlet.
- 以上尺寸仅供参考,详细的定位尺寸请按创元公司实际选型为准。
The data in the table is for reference only, please contact ChuangYuan Marketing department at the actual selection.

The data in the table is for reference only, please contact ChuangYuan Marketing department at the actual selection.

过滤段 Filter section

标准空调机组过滤器配置表 standard air conditioning unit filter Configuration table

型号 CYZ-model CYZ-	名义风量 m³/h rated air volume m³/h	过滤器规格(数量) Filter specification(quantity)			
03-0509	3000	20" × 20"(1)	20" × 16"(1)	-	-
04-0609	4000	24" × 20"(1)	24" × 16"(1)	-	-
05-0612	5000	24" × 24"(2)	-	-	-
06-0810	6000	16" × 20"(4)	-	-	-
07-0812	7000	16" × 24"(4)	-	-	-
08-0912	8000	20" × 24"(2)	16" × 24"(2)	-	-
09-0815	9000	16" × 20"(6)	-	-	-
10-0915	10000	20" × 20"(3)	16" × 20"(3)	-	-
12-0917	12000	20" × 24"(2)	20" × 20"(1)	16" × 24"(2)	16" × 20"(1)
15-1118	15000	24" × 24"(3)	20" × 24"(3)	-	-
18-1218	18000	24" × 24"(6)	-	-	-
20-1220	20000	24" × 20"(8)	-	-	-
25-1323	25000	20" × 24"(3)	20" × 20"(1)	16" × 24"(6)	16" × 20"(2)
30-1523	30000	20" × 24"(9)	20" × 20"(3)	-	-
35-2020	35000	20" × 20"(16)	-	-	-
40-2024	40000	20" × 24"(16)	-	-	-
45-2323	45000	24" × 24"(9)	24" × 20"(3)	20" × 24"(3)	20" × 20"(1)
50-2226	50000	24" × 24"(2)	24" × 20"(8)	20" × 24"(2)	20" × 20"(8)
55-2427	55000	24" × 24"(8)	24" × 20"(12)	-	-
60-2431	60000	24" × 24"(4)	24" × 20"(20)	-	-
70-2631	70000	24" × 24"(1)	24" × 20"(5)	20" × 24"(4)	20" × 20"(20)
80-2634	80000	24" × 24"(4)	24" × 20"(2)	20" × 24"(16)	20" × 20"(8)
90-2540	90000	20" × 24"(25)	20" × 20"(10)	-	-
100-2840	100000	24" × 24"(15)	24" × 20"(6)	20" × 24"(10)	20" × 20"(4)
120-3540	120000	24" × 24"(25)	24" × 20"(10)	20" × 24"(5)	20" × 20"(2)
140-3648	140000	24" × 24"(48)	-	-	-
160-3654	160000	24" × 24"(54)	-	-	-
180-3463	180000	24" × 24"(32)	24" × 20"(12)	20" × 24"(16)	20" × 20"(6)
200-3665	200000	24" × 24"(60)	24" × 20"(6)	-	-
240-3872	240000	24" × 24"(12)	20" × 24"(48)	-	-

注 Note :

- 初效过滤器：折叠板式厚度为2"，袋式框架为1"，袋长为15"，滤料为无纺布，所有相同规格的过滤器截面积相同。
Primary filter: folding plate thickness of 2" bag framework is 1", bag length is 15", filter material is non-woven fabric, all the same specifications filter have the same sectional area.
- 中效过滤器：袋式，尺寸及材料同初效袋式过滤器。
Medium efficiency filter: bag style, size and material are the same as the primary bag filter.
- 高中效、亚高效过滤器：采用超细玻璃纤维滤料，过滤效率F7-F9(80-95%比色法)。
High & medium efficiency, and sub-high efficiency filter: adopt super fine glass fiber filter material, filtering efficiency F7 - F9(80-95%colorimetry).
- 高效过滤器：用户如需要加装亚高效、高效过滤器，订货时请特别说明。
High efficiency filter: if users require add sub-high efficiency, high efficiency filter, please specify when ordering.
- 过滤器阻力介于初阻力和终阻力。过滤器的终阻力和空调场所的洁净度和室内外大气的污染程度而定，其阻力值不是一个固定的值。
Filter resistance is between the initial resistance and final resistance. The final resistance is determined by the cleanliness of the air-conditioned location and indoor and outdoor air pollution levels, the resistance value is not a fixed value.
- 创元在标准配置外可以提供压差计和压差开关，实现压差的显示和超限报警开关信号。
ChuangYuan can provide differential pressure gauge and differential pressure switch, achieve differential pressure display and overrun alarm switch signal.

中国、美国、欧洲效率规格对照表

China, the United States, European efficiency specifications table

中国 China GB/ T14295	初效5μm Primary efficiency 5μm				中效1μm Medium efficiency 1μm				高中效1μm High & medium efficiency 1μm				亚高效0.5μm Sub-high efficiency 0.5μm			高效0.5μm High efficiency 0.5μm			
	50% > 效率 > 20% 50% > efficiency > 20%				70% > 效率 > 20% 70% > efficiency > 20%				99% > 效率 > 70% 99% > efficiency > 70%				99.9% > 效率 > 95% 99.9% > efficiency > 95%			效率 > 99.99% efficiency > 99.99%			
美国 USA ASH RAE	C1	C2-C4	L5	L6	L7	L8	M9	M10	M11	M12	M13	M14	H12-H16			VH17	VH18	VH19	VH20
欧洲新标准 European new standards	G1	G2	G3	G4	F5				F6	F7	F8	F9	H10	H11	H12	H13	H14	V15, V17	
效率 efficiency	65%	80%	80-90%	> 90%	40%				60%	80%	90%	85%	95%	99%	99.9%	99.99%	99.995%	99.9995%	
旧规格 Old specification	EU1	EU2	EU3	EU4	EU5	EU6				EU7	EU8	EU9	EU10	EU11	EU12	EU13	EU14		

洁净度、通风参数与过滤效率

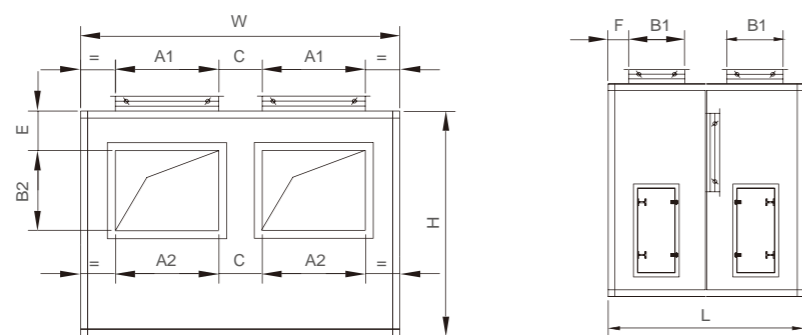
Cleanliness, ventilation parameters and the filtration efficiency

洁净度等级 Cleanliness classification	室内空气流形式 Indoor airflow pattern	换气次数 Air circulation ratio	空气处理机组过滤器等级 Filter classification	末端过滤器效率 Terminal filter efficiency
100	单向流 Unidirectional flow	> 160	H10	V15
1000	单向流 Unidirectional flow	70-160	F9	H12
10000	混合流 Mixing flow	20-70	F9	H11
100000	非单向流 Non-unidirectional flow	10-20	F7	H10
300000	单向流 Unidirectional flow	10	F7	无

注 Note :

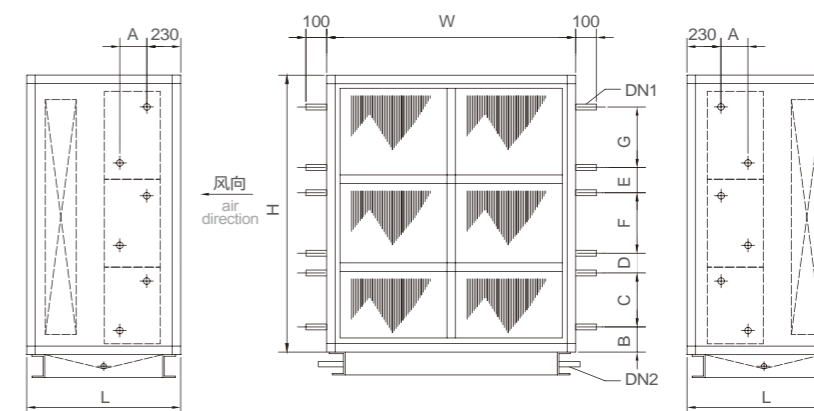
- 上表参数中室内空气流和换气次数基于ISO标准，空气处理机组过滤器等级和末端过滤器效率是创元的推荐值。
The above-mentioned parameters of indoor air flow and ventilation rate based on the ISO standard, air handling units filter grade and terminal filter efficiency is recommended value by ChuangYuan.
- 空气处理机组主过滤器等级是指空气处理机组中的最高过滤器的等级，在主过滤器前应当设置相应的预过滤器。
The main filter level of the air handling unit is the highest filter level in the air handling unit, and the corresponding pre filter should be set before the main filter.
- 末端过滤器效率是指安装在室内的高效过滤风口的过滤效率等级。
The efficiency of the terminal filter is the filtration efficiency level which installed in the indoor high efficiency tuyere.

排风新风段 Exhaust and fresh air section



型号 CYZ- model CYZ-	名义风量 m³/h rated air volume m³/h	尺寸 (mm) Dimension							
		L	A1	B1	A2	B2	C	E	F
03-0509	3000	12M	500	400	500	400	-	200	105
04-0609	4000	12M	600	400	600	400	-	200	105
05-0612	5000	12M	700	400	700	400	-	200	105
06-0810	6000	12M	700	500	700	500	-	200	60
07-0812	7000	12M	600	500	600	500	-	200	60
08-0912	8000	12M	800	500	800	500	-	200	60
09-0815	9000	12M	1000	500	1000	500	-	200	60
10-0915	10000	14M	1000	600	1000	600	-	200	60
12-0917	12000	14M	800	600	800	600	-	200	60
15-1118	15000	14M	800	600	800	600	-	200	60
18-1218	18000	14M	1000	600	1000	600	-	200	60
20-1220	20000	14M	1000	600	1000	600	-	300	60
25-1323	25000	14M	1250	600	1250	600	-	300	60
30-1523	30000	14M	1250	600	1250	600	-	300	60
35-2020	35000	18M	1600	800	1600	600	-	300	60
40-2024	40000	18M	1600	800	1600	600	-	300	60
45-2323	45000	18M	1600	800	1600	600	-	300	60
50-2226	50000	18M	2000	800	2000	600	-	300	60
55-2427	55000	18M	2000	800	2000	600	-	300	60
60-2431	60000	18M	2000	800	2000	600	-	400	60
70-2631	70000	18M	2500	800	2000	600	-	400	60
80-2634	80000	18M	2500	800	2000	800	-	400	60
90-2540	90000	18M	2500	800	2000	800	-	400	60
100-2840	100000	22M	2500	1000	2500	1000	-	400	60
120-3540	120000	22M	3000	1000	2500	1000	-	500	60
140-3648	140000	22M	1800	1000	1250	1000	250	500	60
160-3654	160000	22M	2000	1000	1250	1000	250	500	60
180-3463	180000	22M	2500	1000	1600	1000	250	500	60
200-3665	200000	22M	2500	1000	1600	1000	250	500	60
240-3872	240000	22M	2500	1200	2000	1200	250	500	60

表冷挡水段 Cooling coil with eliminator section

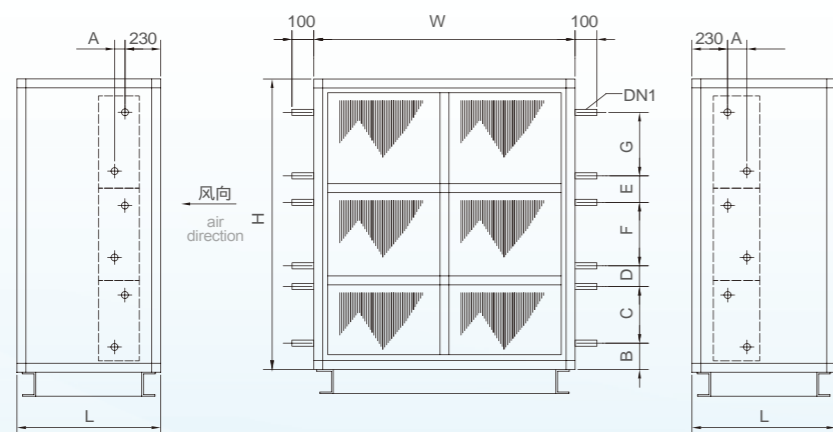


型号 CYZ- model CYZ-	名义风量 m³/h rated air volume m³/h	尺寸 (mm) Dimension											
		L	A			B	C	D	E	F	G	DN2	盘管 个数 Coil quantity
			4排 4rows	6排 6rows	8排 8rows								
03-0509	3000	8M	66	110	154	180	300	-	-	-	-	25	1
04-0609	4000	8M	66	110	154	180	400	-	-	-	-	25	1
05-0612	5000	8M	66	110	154	180	400	-	-	-	-	25	1
06-0810	6000	8M	83	138	193	180	598	-	-	-	-	25	1
07-0812	7000	8M	83	138	193	180	598	-	-	-	-	25	1
08-0912	8000	8M	83	138	193	180	725	-	-	-	-	25	1
09-0815	9000	8M	83	138	193	180	598	-	-	-	-	25	1
10-0915	10000	8M	83	138	193	180	725	-	-	-	-	25	1
12-0917	12000	8M	83	138	193	180	725	-	-	-	-	25	1
15-1118	15000	8M	83	138	193	180	916	-	-	-	-	25	1
18-1218	18000	8M	83	138	193	180	979	-	-	-	-	25	1
20-1220	20000	8M	83	138	193	180	979	-	-	-	-	25	1
25-1323	25000	8M	83	138	193	180	1106	-	-	-	-	25	1
30-1523	30000	8M	83	138	193	180	505	140	-	505	-	32	2
35-2020	35000	8M	83	138	193	180	759	140	-	759	-	32	2
40-2024	40000	8M	83	138	193	180	759	140	-	759	-	32	2
45-2323	45000	8M	83	138	193	180	949	140	-	949	-	32	2
50-2226	50000	8M	83	138	193	180	886	140	-	886	-	32	2
55-2427	55000	8M	99	165	231	180	1010	140	-	1010	-	32	2
60-2431	60000	8M	99	165	231	180	1010	140	-	1010	-	32	2
70-2631	70000	8M	99	165	231	180	1086	140	-	1086	-	32	2
80-2634	80000	8M	99	165	231	180	1086	140	-	1086	-	32	2
90-2540	90000	8M	99	165	231	180	1010	140	-	1010	-	32	2
100-2840	100000	8M	99	165	231	180	1162	140	-	1162	-	32	2
120-3540	120000	8M	99	165	231	180	934	150	150	934	934	32	3
140-3648	140000	8M	99	165	231	180	1010	150	150	1010	1010	32	6
160-3654	160000	8M	99	165	231	180	1010	150	150	1010	1010	32	6
180-3463	180000	8M	99	165	231	180	934	150	150	934	934	32	6
200-3665	200000	8M	99	165	231	180	1010	150	150	1010	1010	32	6
240-3872	240000	8M	99	165	231	180	1086	150	150	1086	1086	32	6

注 Note :

- 表冷段具有冷却、挡水功能，底部设有倾斜式排水管，保证内部不积水。表冷器系铜管串铝片经集束式一次机械胀管工艺加工而成。
Cooler section has cooled, water retaining function, tilting drain on the bottom to assure that no water inside.
Cooler coil is copper tube string aluminum sheet which processed by a mechanical expanding technology clustered together.
- 水盘采用镀锌板表面喷涂，如需其它材料请订货时说明。
Water pan uses electric galvanized sheet, surface spraying, if you need other materials please point out in order.
- 当迎面风速大于2.65m/s或断面高度比较高时，表冷器后应选用挡水装置，创元提供不同材质的挡水装置可选。
When the face velocity is larger than 2.65m/s or section height is relatively high, cooler should be selected water remaining device, different material retaining water remaining device is for optional.
- DN1表示表冷器进出水管径，具体详见样本“机组性能参数表”对应的尺寸。
DN1 represents cooler in/out of the water pipe diameter, Specific size references "standard model performance parameters table".
- 当盘管个数为6时表示表冷器为机组两侧进出水，相应的冷凝水管也为两侧布置排水管。
When the number of the coil is 6, represents that the cooling coil water inlet and outlet are on two sides, the corresponding condensate pipe is also arranged on both sides of the drain pipe.

加热段 heater section



型号 CYZ- model CYZ-	名义风量 m³/h rated air volume m³/h	尺寸 (mm) Dimension									盘管 个数 Coil quantity
		L	A		B	C	D	E	F	G	
			1排 1row	2排 2rows							
03-0509	3000	8M	60	75	180	300	-	-	-	-	1
04-0609	4000	8M	60	75	180	400	-	-	-	-	1
05-0612	5000	8M	60	75	180	400	-	-	-	-	1
06-0810	6000	8M	60	75	180	598	-	-	-	-	1
07-0812	7000	8M	75	75	180	598	-	-	-	-	1
08-0912	8000	8M	75	75	180	725	-	-	-	-	1
09-0815	9000	8M	75	75	180	598	-	-	-	-	1
10-0915	10000	8M	75	75	180	725	-	-	-	-	1
12-0917	12000	8M	75	75	180	725	-	-	-	-	1
15-1118	15000	8M	75	75	180	916	-	-	-	-	1
18-1218	18000	8M	75	75	180	979	-	-	-	-	1
20-1220	20000	8M	75	75	180	979	-	-	-	-	1
25-1323	25000	8M	75	75	180	1106	-	-	-	-	1
30-1523	30000	8M	75	75	180	505	140	-	505	-	2
35-2020	35000	8M	75	75	180	759	140	-	759	-	2
40-2024	40000	8M	75	75	180	759	140	-	759	-	2
45-2323	45000	8M	75	75	180	949	140	-	949	-	2
50-2226	50000	8M	75	75	180	886	140	-	886	-	2
55-2427	55000	8M	75	75	180	1010	140	-	1010	-	2
60-2431	60000	8M	75	75	180	1010	140	-	1010	-	2
70-2631	70000	8M	75	75	180	1086	140	-	1086	-	2
80-2634	80000	8M	75	75	180	1086	140	-	1086	-	2
90-2540	90000	8M	75	75	180	1010	140	-	1010	-	2
100-2840	100000	8M	75	75	180	1162	140	-	1162	-	2
120-3540	120000	8M	75	75	180	934	150	150	934	934	3
140-3648	140000	8M	75	75	180	1010	150	150	1010	1010	6
160-3654	160000	8M	75	75	180	1010	150	150	1010	1010	6
180-3463	180000	8M	75	75	180	934	150	150	934	934	6
200-3665	200000	8M	75	75	180	1010	150	150	1010	1010	6
240-3872	240000	8M	75	75	180	1086	150	150	1086	1086	6

注 Note :

- 图示为热水加热器，每组加热下管为热水进，上管为热水出，如采用蒸汽加热，则每组加热器的上管为蒸汽进，下管为凝结水出。
Shown as hot water heater, each heating lower tube is hot water inlet, the upper tube is hot water outlet, if using of steam heating, the upper pipe in each heater is steam inlet, the lower tube is used for the condensate out.
- DN1表示加热器进出水管径，具体详见样本“机组性能参数表”所对应的尺寸。
DN1 represents cooler in/out of the water pipe diameter, Specific size references "standard model performance parameters table".
- 当盘管个数为6时表示加热器为机组两侧进出水。
When the number of the coil is 6, represents that the heater coil water inlet and outlet are on both sides.

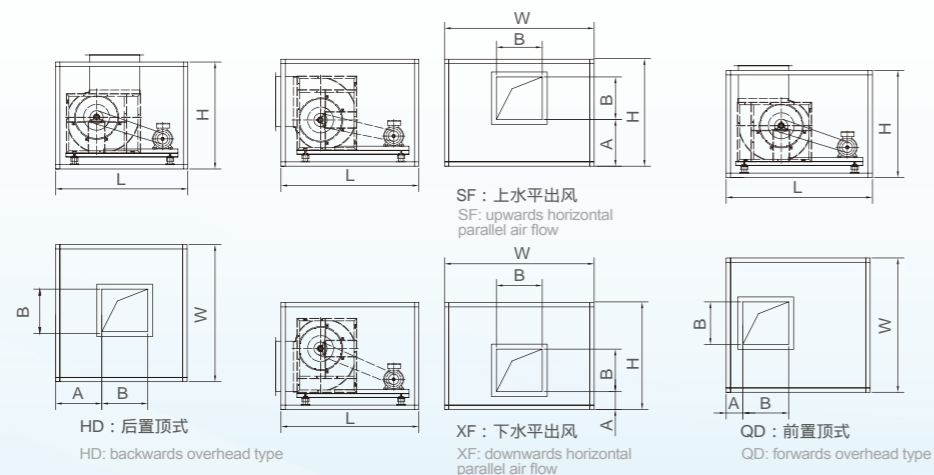
电加热段 EI-heating section

电加热段是采用电热元件加热空气，在无热水、蒸汽源的情况下应用较宜。但因耗电量较大，设计院和用户请慎用。
Electric heating section is the use of electric heating element heats the air, it is appropriate to use in the absence of hot water, steam source. But because of large power consumption, design institute and the user should use it with caution.

使用及维修注意事项 Usage and maintenance announcements

- 电加热必须在通风情况下才能通电使用，电加热器与通风机要有启闭的连锁装置，加热器通电后必须在风机启动之后，断开则应在风机关闭之前。
Electric heating can be energized in use at ventilation conditions, electric heater and fan to have a chain hoist device, heater starts after fan in power, and should be turned off before the fan break.
- 安装时金属外壳部分必须有效接地。
Metal parts must be effectively grounded in installation.
- 第一次使用前必须检查气绝缘电阻，绝缘电阻大于1兆欧方可正常使用，如由于长期不用或保存不善，使产品受潮而绝缘下降。可加热干燥或通电自行干燥使绝缘恢复。
Gas insulation resistance must be checked before the first use, only insulation resistance is greater than 1 MΩ normal use, if it doesn't use in a long-term or save poor, insulation damp down the product. Heating dry or power on can make the insulation recovery.
- 安装时应考虑对电加热及其相连管道的保温措施，使用过程中经常清除电加热及管外的污垢，但不应用尖锐的金属铲刮。
Insulation measures should be considered EI-heating and its associated pipe in the installation, the process using of electric heating, should often remove the dirt outside the tube, but does not apply sharp metal scraping.
- 维修时必须切断电源。
Unit must be cut off the power in repairing.
- 电源电压，三相交流50赫兹380伏。
Supply voltage, 380 volts three-phase AC 50 Hz.
- 电加热器可以分档控制，总功率和分档数由设计院、用户自定。
The electric heater can be classified control, total power and grading number decided by the institute, user.

风机段 fan section



型号 CYZ-	名义风量 m³/h	出风口(后置顶式) Outlet (backwards overhead type)			出风口(上水平出风) Outlet (upwards horizontal parallel air flow)			出风口(下水平出风) Outlet (downwards horizontal parallel air flow)			出风口(前置顶式) Outlet (forwards overhead type)		
		A	B	L	A	B	L	A	B	L	A	B	L
03-0509	3000	184	256	10M	272	256	10M	182	256	10M	120	256	10M
04-0609	4000	197	288	10M	285	288	10M	182	288	10M	120	288	10M
05-0612	5000	208	322	10M	296	322	10M	182	322	10M	120	322	10M
06-0810	6000	328	361	11M	318	361	11M	182	361	11M	120	361	10M
07-0812	7000	228	361	11M	318	361	11M	182	361	11M	120	361	11M
08-0912	8000	244	404	13M	332	404	14M	182	404	14M	120	404	11M
09-0815	9000	244	404	13M	332	404	14M	182	404	14M	120	404	13M
10-0915	10000	272	453	13M	442	453	14M	266	453	14M	120	453	13M
12-0917	12000	300	507	15M	470	507	16M	265	507	16M	120	507	13M
15-1118	15000	329	569	15M	499	569	16M	265	569	16M	120	569	15M
18-1218	18000	350	638	18M	540	638	19M	285	638	19M	120	638	15M
20-1220	20000	350	638	18M	540	638	19M	285	638	19M	120	638	18M
25-1323	25000	386	715	21M	576	715	22M	285	715	22M	120	715	18M
30-1523	30000	427	801	23M	617	801	24M	285	801	24M	120	801	21M
35-2020	35000	427	801	23M	617	801	24M	285	801	24M	120	801	23M
40-2024	40000	474	898	20M	684	898	21M	308	898	21M	120	898	23M
45-2323	45000	532	1007	25M	742	1007	26M	308	1007	26M	260	1007	20M
50-2226	50000	532	1007	28M	742	1007	29M	308	1007	29M	260	1007	25M
55-2427	55000	532	1007	28M	742	1007	29M	308	1007	29M	260	1007	28M
60-2431	60000	588	1130	30M	798	1130	31M	308	1130	31M	260	1130	28M
70-2631	70000	588	1130	30M	798	1130	31M	308	1130	31M	260	1130	30M
80-2634	80000	614	1267	32M	824	1267	33M	308	1267	33M	260	1267	30M
90-2540	90000	614	1267	32M	824	1267	33M	308	1267	33M	260	1267	32M
100-2840	100000	681	1422	25M	891	1422	26M	308	1422	26M	260	1422	32M
120-3540	120000	831	1524	38M	1041	1524	39M	308	1524	39M	260	1524	25M
140-3648	140000	831	1524	38M	1041	1524	39M	308	1524	39M	260	1524	38M
160-3654	160000	860	1794	44M	970	1794	45M	308	1794	45M	260	1794	38M
180-3463	180000	614	1267 × 2	26M	824	1267 × 2	27M	308	1267 × 2	27M	260	1267 × 2	44M
200-3665	200000	681	1422 × 2	26M	891	1422 × 2	27M	308	1422 × 2	27M	260	1422 × 2	26M
240-3872	240000	831	1524 × 2	38M	1041	1524 × 2	39M	308	1524 × 2	39M	260	1524 × 2	26M

注 Note:

- 风机采用皮带传动，小直径叶轮风机为密封型轴承，无需添加润滑油，大直径叶轮轴承需定期添加润滑油。
Fan uses belt transmission, minor diameter of the impeller fan is sealing type bearing, without adding grease, major diameter wheel bearings need to add lubricating oil regularly.
- 标准电机配置为4极全封闭型电机，对于特殊场合也可选用专用电机。
The standard motor is equipped with 4 pole totally enclosed motor, and special motor can be selected for special occasions.
- 风机和电机安装在一独立支架上，采用橡胶或弹簧减震器进行减振。
The fan and motor are mounted on an independent stand, and use of rubber or spring damper for vibration reduction.
- 风机有四种出风方式，具体见上图。
The fan has four kinds of way for air out, specific see above drawing.
- 表中定位尺寸仅供参考，风机规格不同尺寸也会有所变化，详细的尺寸见具体选型结果。
The positioning dimensions of the table are for reference only, and the specifications of the fans vary with the size of the fan, and the detailed size will see the results of the specific selection.

加湿段 Humidifier section

功能说明 Functional specifications

空气含湿量在冬季等需加热的时候比较低，加热后因为温度的升高而使相对湿度很低，因此需要使用加湿器对空气进行加湿。CYZ机组提供干蒸汽加湿、湿膜加湿、电极加湿、高压喷雾加湿、电热加湿等加湿方式。如有其它特殊方式要求，订货时请特别说明。

Air moisture content is relatively low during the winter months which need heating, because the rise of temperature after heating will make the relative humidity lower, so it needs to use a humidifier for humidifying air. CYZ units provide dry steam humidification, wet-film humidification, electrode humidification, high-pressure spray humidification, electric heating humidification methods. If you have any other special requirements, please specify when ordering.

加湿方式 Humidification way

高压喷雾加湿-等焓加湿过程，采用不锈钢水分配和喷嘴，加压雾化喷雾，高效节能、安全可靠。

High-pressure spray humidification- equal enthalpy humidification process, using stainless steel water distribution and nozzles, pressure atomized spray, energy-efficient, safe and reliable.

湿膜加湿-等焓加湿过程，饱和效率高，节约空间，降低机组总长度，无需特殊的水处理。

Wet-film humidification- equal enthalpy humidification process, with high saturation efficiency, saving space, reducing the total length of the unit, doesn't need special water treatment.

干蒸汽加湿-等温加湿过程，加湿效率高，采用不锈钢材料，外形美观、耐腐蚀。

Dry steam humidification- isothermal humidification process, high humidifying efficiency, USES the stainless steel material, beautiful appearance, corrosion resistance.

电极式加湿-加湿效率高，多种控制方式可选。

Electrode humidification- high humidifying efficiency, there is many control ways for selection.

电热加湿-加湿效率高，配上合适的控制方式可以达到很高的控制精度。

Electric heating humidification- high humidifying efficiency, match with a suitable control method can achieve high control precision.

加湿方式比较 CoMParison of humidification way

加湿器名称 Humidifier name	加湿器使用条件 humidifier service conditions						
	环境温度°C Environment temperature	湿度 Temperature	临界风速m/s Critical wind speed m/s	给水水质 Feedwater Quality	给水/蒸汽温度°C Feedwater/ steam temperature °C	给水/蒸汽压力 MPa Feedwater/ steam pressure MPa	加湿段长度mm Humidifier section length mm
高压喷雾加湿器 High-pressure spray humidifier	1~40	85%	0.5~3.5	自来水净化水或同等水质 Tap water, purified water or equivalent quality	4~55	0.1~0.5	900
干蒸汽加湿器 Dry steam humidifier	-10~50	/	/	蒸汽 steam	<150	0.02~0.4	600
湿膜加湿器 Wet-film humidifier	5~100	<90%	3.5	自来水或同类型水 Tap water, purified water or equivalent quality	5~40	0.15~0.75	可与冷盘管一起 Can be put together with the cooling coil
电极加湿器 Electrode humidifier	4~40	<85%	/	洁净自来水或软化水 Clean tap water or demineralized water	4~35	0.1~1.0	600
电热加湿器 Electric heating humidifier	4~40	<85%	/	软化水或纯净水 Demineralized water or purified water	4~35	0.1~0.3	600

干蒸汽加湿器性能 Dry steam humidifier performance

干蒸汽加湿量表 Dry steam humidification quantity

蒸汽压力 Steam pressure	型号 model	JQ-15			JQ-20			JQ-40			JQ-50	
压力 (MPa) Pressure (MPa)	喷孔孔径 Spray-hole diameter	φ2	φ4	φ6	φ8	φ9	φ10	φ10.5	φ12	φ14	φ16	φ18
0.02		1.5	1.4	9	22	27	34	40	55	75	145	187
0.1		2.3	9	21	49	62	75	78	102	141	194	246
0.2		3.6	14	35	68	106	131	142	160	216	311	397
0.3		4.5	18	40	97	152	187	205	217	296	448	569
0.4		6.1	24	58	124	196	227	250	275	375	590	760

注：表中的额定加湿量指调节阀全开启时的加湿量，单位为kg/h
Note: the rated humidification quantity is that in regulating valve fully open, the unit is kg/h

机组型号和干蒸汽加湿器喷管长度对照表

Unit type and dry steam humidifier nozzle length control coMParison table

型号 CYZ- model CYZ-	喷管长度mm Nozzle length	喷管数量 只 Nozzle number only set	型号 CYZ model CYZ	喷管长度mm Nozzle length	喷管数量 只 Nozzle number only set
03-0509	800	1	2024	2100	1
04-0609	800	1	2323	1800	1
05-0612	900	1	2226	2100	1
06-0810	900	1	2427	2100	1
07-0812	900	1	2431	2700	1
08-0912	900	1	2631	2700	1
09-0815	1200	1	2634	3000	1
10-0915	1200	1	2540	3350	2
12-0917	1200	1	2840	3350	2
15-1118	1500	1	3540	3350	2
18-1218	1500	1	3648	3650	2
20-1220	1500	1	3654	2100	4
25-1323	1800	1	3463	2700	4
30-1523	1800	1	3665	2700	4
35-2020	1500	1	3872	3350	4

注 Note :

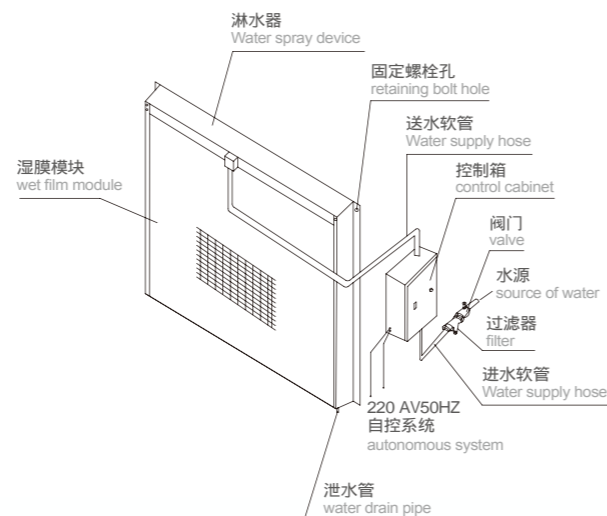
- 干蒸汽加湿器标准配置为国产品牌，如用户需我公司可选配进口品牌。
Dry steam humidifier standard configuration for the domestic brands, if user needs, we can provide imported brand.
- 干蒸汽加湿器分两种方式控制：手动和电动。
Dry steam humidifier is controlled in two ways: manual and electric.
- 干蒸汽加湿器的加湿量仅与加湿器型号，蒸汽压力及喷嘴孔径、数量有关，而与喷嘴长度无关。
Dry steam humidifier humidification quantity only have a connection with humidifier model, steam pressure and nozzle hole diameter, number, and has nothing to do with the length of the nozzle.
- 对于大断面的机组，我公司会根据具体的加湿量和尺寸选配双喷管或多喷管等不同的形式。
For the large section of the unit, our coMPany will choose double nozzle or nozzle and other different forms according to the specific humidification quantity and size.

湿膜加湿器性能 Wet film humidifier performance

湿膜加湿器是利用水的蒸发对空气进行加湿的设备。其介质为由高分子无极材料经过特殊的加工而形成的蜂窝状物，其具有很大的表面积和极强的吸水性能，当空气经过介质时，水分逐渐蒸发，吸收空气中热量，从而使空气中的湿度增加。它具有以下优点：

Wet film humidifier is a equipment which humidifies the air by evaporation of water. Whose medium is honeycomb, the honeycomb is infinite polymer material formed through special processing, which has large surface area and strong absorption ability, when the air passes through the media, the water gradually evaporates, the air to absorb heat, so that the air humidity increases . It has the following advantages:

- 洁净加湿-湿膜加湿时降温无“白粉”现象。
Clean humidifier - when cool wet film no "white powder" phenomenon.
- 加湿距离短-加湿距离仅为自身厚度。
Humidifying distance is short-the distance of wetting distance is only its thickness.
- 饱和效率高-饱和效率可达到80%。
High saturation efficiency - saturation efficiency can reach 80%.
- 安全可靠-膜体材料防霉防菌，使用寿命长达10年。
Safe and reliable - membrane material is mildew and anti-bacteria, service life up to 10 years.
- 降温效果好-采用填料进行直接蒸发冷却降温，体积小，效果好。
Good cooling effect - direct evaporative cooling with fillers, small size, the effect is good.



标准机型湿膜加湿量表 Standard model wet film humidification table

型号 CYZ- Model CYZ-	名义 风量 m³/h Rated air volume m³/h	新风工况 fresh air condition				回风工况 return air condition			
		35%效率 35% efficiency	60%效率 60% efficiency	75%效率 75% efficiency	85%效率 85% efficiency	35%效率 35% efficiency	60%效率 60% efficiency	75%效率 75% efficiency	85%效率 85% efficiency
03-0509	3000	7	13	16	18	5	10	13	15
04-0609	4000	8	25	20	22	7	13	16	18
05-0612	5000	9	18	23	26	8	25	29	22
06-0810	6000	13	24	31	35	10	20	25	29
07-0812	7000	14	26	33	37	11	21	27	31
08-0912	8000	16	30	39	44	13	25	32	36
09-0815	9000	19	35	45	52	15	29	37	42
10-0915	10000	21	39	50	57	17	32	41	47
12-0917	12000	23	44	56	64	19	36	46	52
15-1118	15000	30	58	74	84	25	48	60	69
18-1218	18000	35	67	86	98	29	55	70	80
20-1220	20000	39	74	94	107	32	60	77	88
25-1323	25000	52	99	126	144	42	81	103	118
30-1523	30000	60	114	145	166	49	93	119	136
35-2020	35000	67	128	163	187	55	105	134	153
40-2024	40000	79	150	191	219	64	123	157	179
45-2323	45000	91	175	222	254	75	143	182	208
50-2226	50000	97	185	237	271	80	153	194	222
55-2427	55000	103	195	252	290	90	178	225	249
60-2431	60000	122	233	297	339	100	191	243	278
70-2631	70000	139	266	338	386	114	218	277	316
80-2634	80000	154	295	375	429	126	241	307	351
90-2540	90000	173	332	422	482	142	272	346	395
100-2840	100000	196	375	477	545	160	307	391	446
120-3540	120000	238	455	573	660	194	367	475	546
140-3648	140000	280	535	675	778	228	424	557	629
160-3654	160000	322	615	768	884	262	486	628	722
180-3463	180000	364	695	845	968	296	563	712	819
200-3665	200000	392	750	954	1090	320	614	782	892
240-3872	240000	476	910	1146	1320	388	734	950	1092

注 Note :

- 新风工况为28 相对湿度15%，回风工况为30%新风比。
Fresh air working condition 28℃, relative humidity is 15%, Fresh air working condition is 30% fresh air ratio.
- 不同厚度湿膜的效率不一样，加湿器也不一样，上表中四种效率对应的湿膜厚度为50mm，100mm,150mm，200mm。其它厚度规格的参数具体请和创元公司市场部联系。
Different efficiency of wet film thickness is different, humidifier is also different, four kinds of efficiency of wet film thickness of 50 mm, 100 mm, 150 mm, 200 mm in the above. Please contact ChuangYuan marketing department to get other thickness specification parameters.

其它加湿性能(电极式加湿器，高压喷雾加湿器，超声波加湿器)

Other humidification performance (Electrode humidifier, High-pressure spray humidifier, Electrode humidifier)

电极式加湿装置，不锈钢电极和防腐性能良好的加湿罐保证了设备可靠运行。在使用中可通过调节加湿桶内的水位高低即可达到加湿量的调节。电极式加湿器运行十分可靠，当供水因断绝时点加湿器将会自动停止工作，当恢复供水时又自动恢复工作。

Electrode humidification device is used in this section, stainless steel electrodes and cylinder style to ensure equipment reliable operation. Adjusting the water level inside the cylinder can be adjusted to the amount of humidification. Electrode humidifier operation is very reliable, when the water cut off ,the humidifier will automatically stop working ,after rehabilitation of water, it will back to work immediately.

高压喷雾加湿，通过机械给水加压，将水雾化后，喷到空气中，水雾粒子与流通空气进行热湿交换，达到等焓加湿空气的目的。

High-pressure spray humidification via mechanical pressure water, Make the water into fog, and then spray into the air. Water mist flow in the air and get the heat and moisture exchange to get the purpose of humidifying the air in equal enthalpy. Wet membrane humidification humidifies by water spray to wet film modules to get the purpose of humidifying the air in equal enthalpy. It can get the purpose of replacing the flap in enhancing the humidification and dewatering.

超声波加湿是利用高频振荡，通过电能直接加到电换能片上，将电能转换成高频机械振动，将其表面的水直接雾化成细雾，达到加湿的目的。

Ultrasonic humidification use high frequency vibration to via power energy directly added to the transducer chip, Transform the piezoelectric transducer to convert electrical energy film. The surface of the water will be atomized into a fine mist, to achieve the purpose of humidification directly.

注 Note :

以上电加湿器机组的性能参数请联系创元市场部，标准配置为国产加湿器，也可根据客户的要求，选用同类型的进口加湿器。
If you need the above performance parameters of electric humidifier unit, please contact ChuangYuan marketing department, standard configuration for domestic humidifier, we can select the same type of imported humidifier according to customer's requirements.

消声段 Muffler section

功能说明 Functional Specification

环境噪声要求较高的场合，可根据要求及风机噪声特点为机组选配消声段。消声段采用阻性消声器，其内部由穿孔板内置消声棉构成，在较宽的频率范围均具有良好的消声效果。

Occasions with high requirements for environment noise, according to the requirement and the fan noise characteristics to match muffler section for unit. The muffler section with resistive muffler, its internal consists of perforations, built-in anechoic rock wool, has a good silencing effect in a wider range of frequencies.

消声段分回风消声，送风消声。其消声器采用片式阻性消声器，片厚210mm，阻塞比0.68。

Muffler section is divided into return air muffler, supply air muffler. The muffler adopts the chip resistive muffler, the thickness is 210mm, blocking ratio 0.68.

型号 CYZ- model CYZ-	名义 风量 m ³ /h Rated air volume M ³ /h	不同长度消声器的消声量dB(A) Different length of muffler noise elimination dB (A)			不同长度消声器的空气阻力Pa The air resistance of different length of muffler		
		600mm	900mm	1200mm	600mm	900mm	1200mm
03-0509	3000	17	20	23	20	21	22
04-0609	4000	17	20	23	20	21	22
05-0612	5000	17	20	23	24	26	27
06-0810	6000	17	20	23	30	32	34
07-0812	7000	17	20	23	23	25	27
08-0912	8000	17	20	23	24	26	28
09-0815	9000	17	20	23	22	24	26
10-0915	10000	17	20	23	26	28	30
12-0917	12000	17	20	23	30	32	34
15-1118	15000	17	20	23	25	27	29
18-1218	18000	17	20	23	23	25	27
20-1220	20000	17	20	23	29	31	33
25-1323	25000	17	20	23	25	27	29
30-1523	30000	17	20	23	23	25	27
35-2020	35000	17	20	23	27	29	31
40-2024	40000	17	20	23	24	26	28
45-2323	45000	17	20	23	22	24	26
50-2226	50000	17	20	23	22	24	26
55-2427	55000	17	20	23	30	32	34
60-2431	60000	17	20	23	29	31	33
70-2631	70000	17	20	23	23	25	27
80-2634	80000	17	20	23	26	28	30
90-2540	90000	17	20	23	31	33	35
100-2840	100000	17	20	23	25	27	28
120-3540	120000	17	20	23	25	27	28
140-3648	140000	17	20	23	25	27	28
160-3654	160000	17	20	23	25	27	28
180-3463	180000	17	20	23	25	27	28
200-3665	200000	17	20	23	25	27	28
240-3872	240000	17	20	23	25	27	28

消声器动态插入损失(dB) Muffler dynamic insertion loss(dB)

消声器长度 Muffler length	倍频程 Octave							
	63Hz	125Hz	250Hz	500Hz	1kHz	2kHz	4kHz	8kHz
600mm	6	9	12	22	30	29	21	12
900mm	7	12	16	28	35	35	28	17
1200mm	7	15	20	34	40	40	34	21

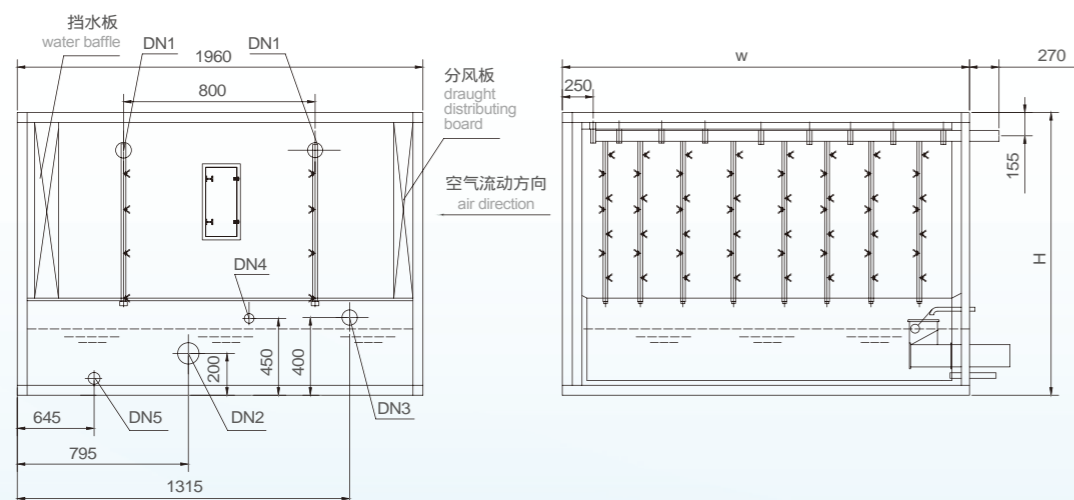
消声器阻力系数 Muffler resistance coefficient

消声器长度mm Muffler length	600	900	1200	1500	1800	2100	2400	2700
阻力系数 Resistance coefficient	5.531	5.834	6.173	6.440	6.721	7.000	7.280	7.607

喷淋段 spray section

喷淋段可以实现多种空气处理过程，既可以实现空气的减焓、除湿，亦可以用于空气的增焓、加湿、升温等过程，并且在空气流通的断面上形成一个水帘通道，对于空气的净化及清洁起到良好的作用，广泛应用于烟厂，电厂等场所。

Spray can achieve a variety of air handling process, can realize the air enthalpy reduction, desiccant, also can be used for air enthalpy enhanced, humidification and heating process, and forms a curtain on the air flow channel cross-section, has a good effect on the purification and clean of the air, is widely used in cigarette factory, power plant etc.



型号 CYZ- Model CYZ-	名义风量 m³/h Rated air volume m³/h	喷嘴个数N The number of nozzle	喷水量t/h Water spray	进水管DN1 Inlet pipe	回水管DN2 Return pipe	溢水管DN3 Overflow pipes	补水管DN4 Fill pipe	排水管DN5 Drain pipe
20-1220	20000	96	28.37	40	80	50		50
25-1323	25000	108	31.91	40	100	50		50
30-1523	30000	160	47.28	50	125	65		50
35-2020	35000	180	53.19	70	125	65		65
40-2024	40000	200	56.74	70	150	65		65
50-2226	50000	224	66.19	80	150	80		65
60-2431	60000	280	82.74	80	150	80		65
70-2631	70000	320	94.56	80	150	80		65
80-2634	80000	360	106.38	80	200	80	32	65
90-2540	90000	390	115.8	80	200	80		65
100-2840	100000	430	127.66	80	200	100		65
120-3540	120000	530	156.02	100	250	100		65
140-3648	140000	580	170.21	100	250	100		65
160-3654	160000	620	182.03	100	250	100		65
180-3463	180000	650	191.48	125	300	125		65
200-3665	200000	680	199.76	125	300	125		65
240-3872	240000	720	212.77	125	300	125		65

注 Note :

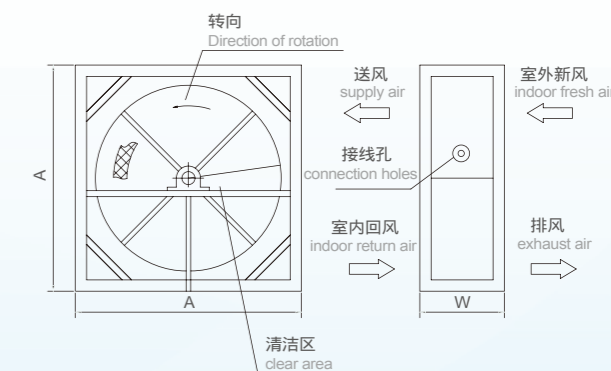
- 喷淋段循环水泵由用户自备，如需创元公司供货请注明。
The circulating water pump of spray section should be provided by the user, for ChuangYuan supplier, please specify.
- 进水管和回水管径会随水泵的改变而改变，表中数值仅供参考，以实际选型为准。
Inlet water pipe and return water pipe diameters can change with the change of the water pump, the numerical value in the table is for reference only, subject to the actual selection.
- 喷嘴个数随着喷嘴的喷孔直径及喷水量的变化会有所改变。
The number of the nozzle can change with the change of the orifice diameter and water quantities.

热回收段 Heat recovery section

转轮热回收 Rotary heat recovery

转轮使用特种金属蜂窝状材料，表面涂特殊的干燥剂吸附。在典型的安装中，转轮定位在空调机的断面中间，把转轮分成上下两部分，来自室内的污浊的空气从其中一半排除，而另一半则从室外通入新鲜的空气，同时转轮慢慢旋转，这时转轮内蓄积的热湿空气和另一半进行交换，从而达到回收全热的功能。

The wheel uses special metal honeycomb material, coated with a special desiccant adsorption. In a typical installation, the wheels positioned in the middle section of the air conditioner, the wheel is divided into two parts, the polluted air from the indoor to exclude from one half and the other half from the outside inlet the fresh air, while the wheel slowly rotate, then the accumulation of heat and moisture in the air wheel exchange with the other half, so as to achieve the total heat recovery function.



热回收转轮技术规格参数 Rotary heat recovery technical specifications parameter

气流速度 Airflow velocity	m/s	1.5	2	2.5	3	3.5	4	4.5	5	5.5	A mm	W mm
效率% Efficiency%	Winter Heating	87	84	81	79	78	76	74	72	70		
	Summer Cooling	87	84	81	79	77	75	73	71	69		
压降 Pressure drop	Pa	74	94	114	142	170	201	239	267	300		
转轮型号 Model	风量m³/h Air volume m³/h											
HRT500	519	692	865	1039	1212	1385	1558	1731	1904	600	340	
HRT600	748	966	1208	1450	1691	1933	2175	2416	2658	700	340	
HRT700	1018	1316	1644	1973	2302	2631	2960	3289	3618	800	340	
HRT800	1329	1718	2148	2577	3007	3436	3866	4296	4725	900	340	
HRT900	1682	2175	2718	3262	3806	4349	4893	5437	5980	1030	340	
HRT1000	2077	2685	3356	4027	4698	5369	6041	6712	7383	1130	340	
HRT1100	2513	3248	4061	4873	5685	6497	7309	8121	8933	1230	340	
HRT1200	2991	3866	4832	5799	6765	7732	8698	9665	10631	1330	340	
HRT1300	3510	4537	5671	6806	7940	9074	10209	11343	12477	1430	340	
HRT1400	4071	5262	6578	7893	9209	10524	11840	13155	14471	1530	340	
HRT1500	4673	6041	7551	9061	10571	12081	13591	15101	16612	1630	340	
HRT1600	5317	6873	8591	10309	12027	13746	15464	17182	18900	1730	340	
HRT1700	6003	7759	9698	11638	13578	15518	17457	19397	21337	1830	340	
HRT1800	6730	8698	10873	13048	15222	17397	19571	21746	23921	1930	340	
HRT1900	7498	9692	12115	14538	16961	19384	21806	24229	26652	2030	340	
HRT2000	8308	10739	13424	16108	18793	21478	24162	26847	29532	2130	340	
HRT2200	10053	12994	16242	19491	22739	25988	29236	32485	35733	2400	400	
HRT2400	11964	15464	19330	23196	27062	30928	34794	38660	42526	2600	400	
HRT2600	14041	18149	22686	27223	31760	36297	40834	45371	49909	2800	400	
HRT2800	16285	21048	26310	31572	36834	42096	47358	52620	57882	3000	400	
HRT3000	18694	24162	30203	36243	42284	48325	54365	60406	66446	3200	430	
HRT3200	21270	27491	34364	41237	48110	54983	61855	68728	75601	3400	430	
HRT3400	24011	31035	38794	46553	54311	62070	69829	77588	85347	3600	430	
HRT3600	26919	34794	43492	52191	60889	69587	78286	86984	95683	3800	430	
HRT3800	29993	38767	48459	58151	67842	77534	87226	96918	106609	4000	430	
HRT4000	33234	42955	53694	64433	75172	85910	96649	107388	118127	4200	430	
HRT4200	36640	47358	59198	71037	82877	94716	106556	118395	130235	4400	430	
HRT4400	40213	51976	64970	77964	90958	103952	116946	129939	142933	4600	430	
HRT4600	43952	56808	71010	85212	99414	113617	127819	142021	156223	4800	430	
HRT4800	47857	61855	77319	92783	108247	123711	139175	154639	170103	5000	430	
HRT5000	51928	67118	83897	100676	117456	134235	151014	167794	184573	5200	430	

注 Note :

表中尺寸和重量均为热回收转轮本身的尺寸和重量。

The dimensions and weight in the table is rotary heat recovery themselves.

板翅式热回收 Plate-fin heat

板翅式热回收是一种空气直接交换式的热回收，不需要通过中间煤质进行换热，利用其隔板内侧的气流温差和水蒸气压力进行显热和潜热回收。显热回收换热器一般用温度传导率高的金属材料制成，用于室内外大温差及湿差小的地方。全热回收换热器用透湿率高、气密性好、抗撕裂的纸张构成，用于室内外温差小温差大的场所。通过多层平行相间的通道进行热湿交换，效率可达到70%。

Plate fin type heat recovery is a direct air exchange type heat recovery, does not need to pass through the medium of heat exchanger, the air temperature and water vapor pressure in the inner side of the separator are used for sensible heat and latent heat recovery. Sensible Heat recovery heat exchanger is made of metal materials with high temperature conductivity, and is used for indoor and outdoor large temperature difference and small humidity difference. Total heat recovery made of high moisture, air tightness, anti-tear paper, Used in the place of small temperature difference between indoor and outdoor temperature difference. Heat exchange through the multilayer and parallel channels for, efficiency can reach 70%.

板翅型号 Plate fin model	断面尺寸 mm Section size		段长mm Section length	叠加尺寸mm Superposition size	板间距mm Distance between plates
HB/S168	168	168	4M	500	2.0 2.5
HB/S202	202	202	4M		
HB/S222	222	222	5M		
HB/S252	252	252	5M		
HB/S312	312	312	6M		
HB/S372	372	372	7M	400	2.0 2.5 3.5
HB/S472	472	472	8M		
HB/S652	652	652	11M		
HB/S802	802	802	13M		
HB/S992	992	992	16M		
HB/S1212	1212	1212	19M	400	2.5 3.5
HB/S1352	1352	1352	21M		
HB/S1512	1512	1512	23M		
HB/S1652	1652	1652	25M		
HB/S2052	2052	2052	31M		

板翅热回收特点 Plate fin type heat recovery characteristic

- 板式热回收装置是静态的，没有运动件，这就保证了极高的运行可靠性和安全性。
Plate fin heat recovery unit type is static, no moving parts, which can guarantee the reliability and safety of the high operation.
- 两股气流，进气和排气分别在板式热回收装置中两条不同的通道中穿过，两股通道做到密封，防止交叉感染，热交换就是通过构成气流通道的板材进行交换。
The two streams, the intake and exhaust respectively across two different channels in the plate heat recovery unit, two strands of channels sealed to prevent cross infection, and heat exchange is exchanged by the board that constitute the airflow channel.
- 热交换板表面采用“湍流”设计几何形状可使热交换效率最高达70%
"Turbulence" is used to design heat exchange plate surface, geometry can make the heat exchange efficiency up to 70%

热管式热回收 Heat pipe heat recovery

热管管体为内壁精心加工过的优质紫铜管，经超声波清洗干燥后，管体两端由气焊密封，抽高真空后并充注适量的工作介质，再用气焊密封工艺管。翅片为高速冲压成型的波纹铝箔翅片。铜热管内充注经过精心筛选的多组分低沸点有机介质，不仅环保、安全、对人体无害，同时也强化了传热过程。热管按照等边三角形排列的热管束，管束外套波纹型整体铝箔翅片，形成热回收器的芯体，用中间隔板将热管的新风段和排风段分开。芯体部分外加钢制的安装边框，边框与中间隔板接成两个独立的风道，即构成整体式的热管热回收器。每根热管都和中间隔板涨接为一体，保证了流过热回收器的两股热气流分隔严密、互不渗漏。

Heat pipe high-quality copper inner wall is careful processing, after ultrasonic cleaning and drying, the tube are sealed by welding at both ends of the body, high vacuum pumping and filling amount of working medium, then sealing process pipe with gas welding. Fin is corrugated aluminum fins which formed by a high-speed punch press. Carefully filtered and multi-component low boiling point organic medium is filling in the copper tube, not only environmental protection, safety, harmless to human body, but also to strengthen the heat transfer process. Heat pipe is arranged tube bundle in the light of equilateral triangle, put corrugated aluminum foil fins on the exterior tube bundle, form a heat recovery core, using the middle clapboard to separate the fresh section and exhaust section. Add steel frame outside of the core, the frame and middle bulkhead are separated into two independent air duct, which constitutes unitary heat pipe recovery. Each pipe expanded with the spacing board, to ensure that the two hot air flow through the heat collector separated tightly, mutual leakage.

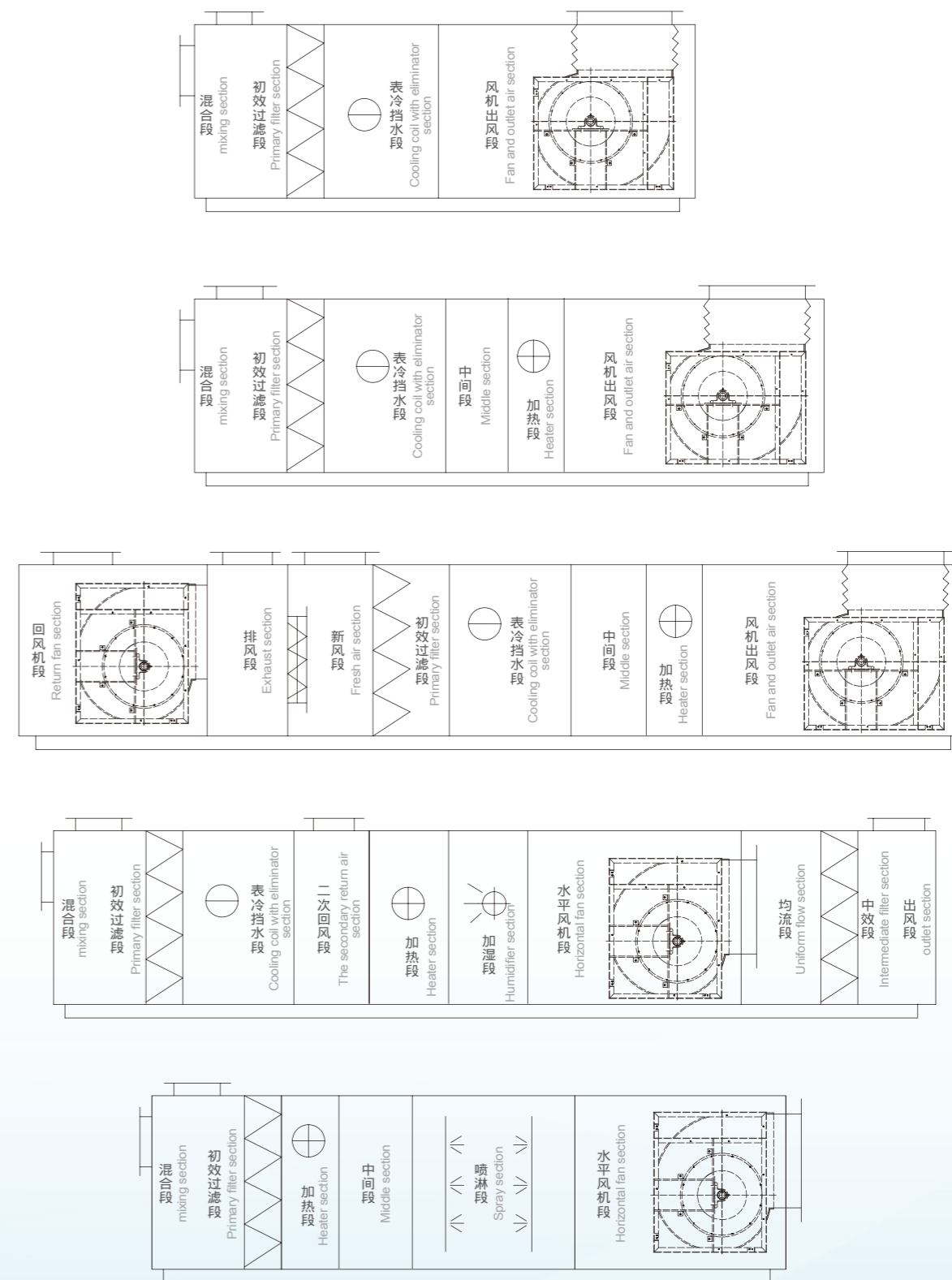
特点：全部为静态装置，每个热管回路互相独立，即使一个损坏不影响整体的使用效果。
Features: all of them are static devices, each heat pipe loop mutually independence, even if one damaged does not affect the overall effect.

注 Note :

因板翅式热回收在不同的风速、长度下，风量、阻力也不一样。热管式热回收机组的数据均为实验数据，因此客户如需资料请与创元市场部联系，以获得相关技术资料。
The air quantity and resistance of the plate fin heat recovery is different in different wind speed and length. Heat pipe heat recovery unit of the data are based on the experimental data, if the customer needs related data, please contact with ChuangYuan marketing department, in order to obtain relevant technical data.

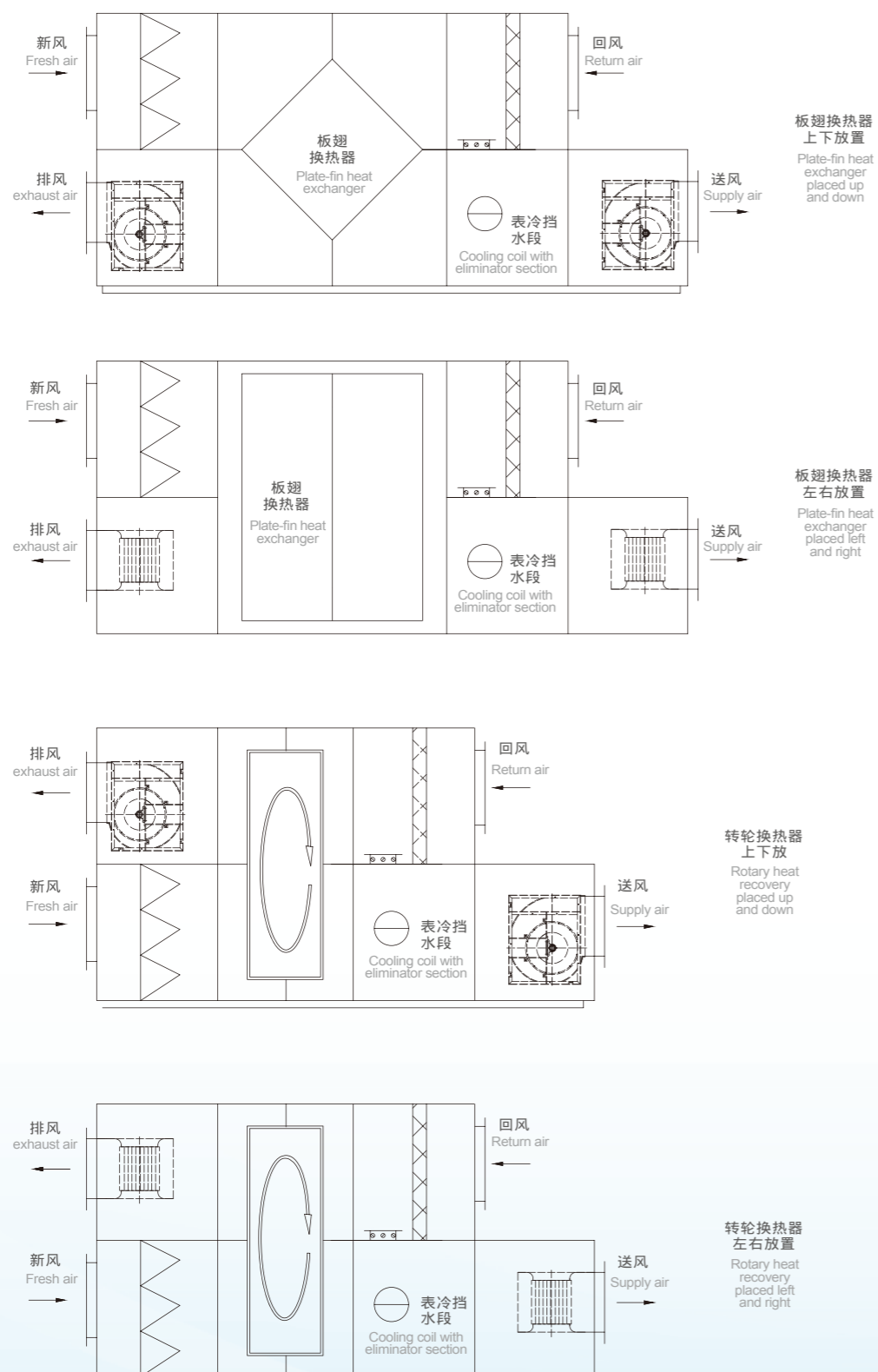
常见功能段组合方式(一)

Common functional section compound mode(a)



常见功能段组合方式(二)

Common functional section compound mode(b)



段长尺寸表 Section length table

型号 CYZ- Model CYZ-	名义 风量 m³/h Rated air volume m³/h	混合段 出风段 Air outlet section	过滤 段 (袋 式) Filter section (bag)	综合过 滤段 Integrated filtering section	表冷段 Cooling section	加热段 Heating section	加湿段 humidifier section			新排风 段 Fresh &exhaust section	均流段 Uniform flow section	消声 段 Muffler section	转轮段 Rotary heat recovery	高效过 滤段 high efficiency air filter section	检修段 Maintenance section
							干蒸汽加 湿 Dry steam humidifier	湿膜加 湿 Wet-film humidifier	高压喷 雾 加湿 High pressure spray humidifier						
03-0509	3000	6M	5M	6M	8M	3M	6M	3M	9M	12M	7M	9M	6M	4M	7M
04-0609	4000	6M	5M	6M	8M	3M	6M	3M	9M	12M	7M	9M	6M	4M	7M
05-0612	5000	6M	5M	6M	8M	3M	6M	3M	9M	12M	7M	9M	6M	4M	7M
06-0810	6000	6M	5M	6M	8M	3M	6M	3M	9M	12M	7M	9M	6M	4M	7M
07-0812	7000	6M	5M	6M	8M	3M	6M	3M	9M	12M	7M	9M	6M	4M	7M
08-0912	8000	6M	5M	6M	8M	3M	6M	3M	9M	12M	7M	9M	6M	4M	7M
09-0815	9000	6M	5M	6M	8M	3M	6M	3M	9M	12M	7M	9M	6M	4M	7M
10-0915	10000	6M	5M	6M	8M	3M	6M	3M	9M	14M	7M	9M	6M	4M	7M
12-0917	12000	7M	5M	6M	8M	3M	6M	3M	9M	14M	7M	9M	6M	4M	7M
15-1118	15000	7M	5M	6M	8M	3M	6M	3M	9M	14M	7M	9M	6M	4M	7M
18-1218	18000	7M	5M	6M	8M	3M	6M	3M	9M	14M	7M	9M	6M	4M	7M
20-1220	20000	7M	5M	6M	8M	3M	6M	3M	9M	14M	7M	9M	6M	4M	7M
25-1323	25000	7M	5M	6M	8M	3M	6M	3M	9M	14M	7M	9M	6M	4M	7M
30-1523	30000	7M	5M	6M	8M	3M	6M	3M	9M	14M	7M	9M	6M	4M	7M
35-2020	35000	9M	5M	6M	8M	3M	6M	3M	9M	18M	7M	9M	6M	4M	7M
40-2024	40000	9M	5M	6M	8M	3M	6M	3M	9M	18M	7M	9M	6M	4M	7M
45-2323	45000	9M	5M	6M	8M	3M	6M	3M	9M	18M	7M	9M	6M	4M	7M
50-2226	50000	9M	5M	6M	8M	3M	6M	3M	9M	18M	7M	9M	6M	4M	7M
55-2427	55000	9M	5M	6M	8M	3M	6M	3M	9M	18M	7M	9M	6M	4M	7M
60-2431	60000	9M	5M	6M	8M	3M	6M	3M	9M	18M	7M	9M	6M	4M	7M
70-2631	70000	9M	5M	6M	8M	3M	6M	3M	9M	18M	7M	9M	6M	4M	7M
80-2634	80000	9M	5M	6M	8M	3M	6M	3M	9M	18M	7M	9M	6M	4M	7M
90-2540	90000	9M	5M	6M	8M	3M	6M	3M	9M	18M	7M	9M	6M	4M	7M
100-2840	100000	11M	5M	6M	8M	3M	6M	3M	9M	22M	10M	9M	6M	4M	7M
120-3540	120000	11M	5M	6M	8M	3M	6M	3M	9M	22M	10M	9M	6M	4M	7M
140-3648	140000	11M	5M	6M	8M	3M	6M	3M	9M	22M	10M	9M	6M	4M	7M
160-3654	160000	11M	5M	6M	8M	3M	6M	3M	9M	22M	10M	9M	6M	4M	7M
180-3463	180000	11M	5M	6M	8M	3M	6M	3M	9M	22M	10M	9M	6M	4M	7M
200-3665	200000	11M	5M	6M	8M	3M	6M	3M	9M	22M	10M	9M	6M	4M	7M
240-3872	240000	13M	5M	6M	8M	3M	6M	3M	9M	22M	10M	9M	6M	4M	7M

注 Note :

- 长度模数M为100mm, 段长=M × 100。
The unit length M is 100,length= M x 100.
- 表中未带功能段长度的具体见各个功能段长度。
No function in the table segment specific see the length of each functional segment length.
- 湿膜加湿段可以放置在表冷器后而不要单独占用段长。
The wet film humidifier section can be placed back of the cooling coil and do not occupy a separate length.
- 表中有些功能段在使用中为维修方便, 需要在其前面加设检修段。
Some functional segments in the table in use for easy maintenance, we need to set up maintenance section.
- 表中数据仅供参考, 实际使用时会根据具体情况进行功能段组合从而使段长有所变化。
The data in the table are for reference only, and It will conduct a functional segment composition according to the actual use of the specific situation, so long the segment length will change last.

功能段空气阻力表 Functional section air resistance table

型号 CYZ- Model CYZ-	阻力Pa Pressure																	
	混合段 风口/ 风阀 Mixing section tuyere/ air valve	初效过滤器 Primary filter		中效过滤器 Medium efficiency filter		亚高效过 滤器 Sub-high efficiency filter	新排风段 Fresh &exhaust section	加热段 Pa/排 Heating section Pa/row	加湿段 humidifier section			喷淋段 Spray section	风机段 Fan section	均流段 Uniform flow section	表冷段 Cooling section			
		G3 板/袋 式 Plate/ bag type	G4 板/袋 式 Plate/ bag type	F5	F7				湿膜 (50mm) Wet film (50mm)	高压 喷雾 High- pressure spray	其他 others				2排 2 rows	4排 4 rows	6排 6 rows	8排 8 rows
03~240	15/40	105/70	120/90	110	130	250	35	26	50	20	10	100	28	30	70	145	205	270

注 Note :

- 风阀阻力为风阀开度为30°时的空气阻力。表冷段计算阻力为湿工况条件下的阻力。
Air resistance of the valve is that when the valve opening is 30 degrees. The resistance of the cooling section is the resistance of wet working condition.
- 将所有设计的功能段空气阻力之和与所需的机外余压即为所需选用的风机的全压P,机组所选用的风机全压P',应与设计选用的P相当 (按 $p-100 < p' < p+200$)。
The total air pressure P is the sum of the sum of the external pressure of the required machines and the air resistance of all the designed functional sections, the total pressure P' of the air blower used in the unit should be the equivalent of the P of the design (according to the $P-100 = P' < p+200$).
- 机组含有新、排风功能时,会有送、回风机。回风机的全压计算为机组内回风机到回风口的阻力之和加上新排风段的阻力及回风段对应的机外余压即可。送风机的全压为新排风段到出风段的阻力之和加上送风机段对应的机外余压。
When the unit has fresh section and exhaust air section, there will be supply air fan and return air fan. The total pressure of the return air fan is sum of return air fans resistance inside of the unit to return air inlet resistance and adding pressure of the fresh air section and the exhaust air section and return air section corresponding external pressure. The total pressure of the supply air fan is the sum of the pressure from fresh and exhaust section to supply air section and add supply air section corresponding external pressure.
- 湿膜加湿为厚度50mm时的阻力,其它厚度时其阻力会改变,具体请和创元市场部联系。
The resistance is that when the wet film thickness is 50mm, the resistance will change at other thickness,, please contact ChuangYuan marketing department.
- 阻力是换热器迎面风速2.5m/s时值,如按2.7m/s时阻力按1.15系数修正,3.0m/s时按1.3系数修正。
Resistance value is the heat exchanger head wind velocity 2.5m / s, If the coefficient is corrected according to 2.7m/s, the coefficient is corrected according to 1.15, and 3.0m/s is corrected by 1.3.

常见功能段重量表 (Kg)

Common functional section weight table (kg)

功能段 Functional section	重量 (Kg) Weight	型号 CYZ- Model CYZ-														
		03-0509	04-0609	05-0612	06-0810	07-0812	08-0912	09-0815	10-0915	12-0917	15-1118	18-1218	20-1220	25-1323	30-1523	35-2020
混合段/进出风段 Mixing air section/ air inlet & outlet section		142	161	178	187	189	205	208	220	233	262	299	310	347	383	423
初/中效过滤段 Primary/medium efficiency filter section		123	141	156	166	176	183	197	202	215	242	277	288	325	362	405
组合过滤段 Integrated filtering section		130	149	165	175	186	193	208	214	227	256	293	305	344	383	429
排风新风段 Exhaust and fresh air section		186	208	227	237	242	257	260	274	285	303	360	373	410	450	493
中间段 Middle section		129	148	163	174	184	192	206	212	225	254	290	302	341	380	425
表冷挡水段 Cooling coil with eliminator section	4排 4rows	192	225	255	273	266	308	312	339	365	429	496	529	596	672	758
	6排 6rows	203	239	271	289	286	336	346	372	403	482	563	597	675	764	872
	8排 8rows	210	252	294	307	304	365	369	340	439	528	622	657	748	823	999
热水盘管段 Hot water coil section	1排 1row	100	116	132	141	145	160	164	176	187	222	257	268	308	347	394
	2排 2rows	105	122	140	150	162	172	177	191	205	244	284	298	344	388	445
电加热段 EL-heater section		76	90	104	111	104	123	126	133	140	170	198	208	233	264	300
回风机段 Return fan section	900Pa	202	219	243	278	278	311	340	368	439	481	562	623	692	744	926
	1200Pa	206	219	251	278	278	311	366	393	456	498	605	666	721	773	965
	1500Pa	210	224	269	290	290	348	366	410	499	541	634	695	721	812	989
	1800Pa	210	231	240	318	318	307	382	410	434	541	634	695	760	836	1062
送风机段 Supply fan section	900Pa	215	240	265	300	297	349	370	403	484	526	607	675	759	812	1009
	1200Pa	219	240	270	300	297	349	395	429	501	543	650	718	788	841	1047
	1500Pa	224	246	291	312	310	323	395	445	501	586	650	747	788	879	1071
	1800Pa	231	251	291	340	337	377	412	445	544	586	679	747	826	902	1144
板式热回收段 Plate-fin heat recovery section		126	170	187	225	219	294	297	304	378	419	595	609	826	1033	1388
转轮式热回收段 Rotary heat recovery section		505	567	674	727	731	829	864	923	990	1292	1564	1786	1963	2150	2469
热管式热回收段 Heat pipe heat recovery section		119	142	166	178	178	208	216	235	254	309	362	381	442	502	586
加湿段 Humidifier section	干蒸汽加湿 Dry steam humidification	227	256	284	298	287	325	329	348	369	418	474	493	545	605	672
	湿膜加湿 Wet-film humidification	102	119	136	145	145	166	170	183	195	233	270	282	325	368	418
	高压喷雾加湿 High-pressure spray humidification	121	140	157	167	154	180	182	189	197	233	270	282	305	340	383

均流段 Uniform flow section	131	149	166	175	167	190	192	204	219	245	279	291	320	355	396
消声段 Muffler section	191	220	248	263	259	296	302	326	353	403	464	484	558	627	672
喷淋段 Spray section	-	-	-	-	-	-	-	536	577	642	731	761	842	934	1040
中效出风段 Intermediate—efficiency out-let air section	265	302	334	353	365	388	405	422	448	504	576	598	672	745	828
亚高效过滤段 Sub-high efficiency filter section	92	115	130	144	141	166	175	185	206	252	296	306	371	421	487

常见功能段重量表 (Kg) (续)

Common functional section weight table (kg) continued

功能段 Functional section	重量 (Kg) Weight	型号 CYZ- Model CYZ-														
		40-2024	45-2323	50-2226	55-2427	60-2431	70-2631	80-2634	90-2540	100-2840	120-3540	140-3648	160-3654	180-3463	200-3665	240-3872
混合段/进出风段 Mixing air section/ air inlet & outlet section		449	544	583	600	630	680	783	849	889	1020	1227	1439	1544	1638	2100
初/中效过滤段 Primary/medium efficiency filter section		433	476	516	530	572	614	661	731	772	899	1025	1207	1254	1350	1640
组合过滤段 Integrated filtering section		458	504	546	561	606	650	700	774	818	952	1086	1279	1329	1431	1738
排风新风段 Exhaust and fresh air section		523	664	710	764	811	944	1013	1059	1208	1301	1544	1757	1909	2008	2602
中间段 Middle section		454	499	541	556	600	644	694	767	810	943	1076	1267	1316	1417	1722
表冷挡水段 Cooling coil with eliminator section	4排 4rows	820	927	1008	1050	1209	1235	1271	1446	1552	1836	2098	2347	2587	2636	3540
	6排 6rows	939	1065	1167	1198	1247	1317	1495	1694	1819	2159	2524	2812	3102	3147	4198
	8排 8rows	1068	1198	1324	1370	1418	1525	1698	1925	2076	2469	2916	3289	3615	3657	4865
热水盘管段 Hot water coil section	1排 1row	423	473	514	514	580	615	660	739	789	930	1094	1225	1356	1436	1860
	2排 2rows	479	538	586	586	590	704	754	850	911	1077	1282	1436	1597	1677	2141
电加热段 EL-heater section		323	357	389	389	470	510	561	595	681	704	869	970	1070	1149	1470
回风机段 Return fan section	900Pa	962	1170	1352	1382	1366	1680	1759	1923	2382	2431	2953	3123	3377	4279	4863
	1200Pa	1024	1194	1413	1443	1464	1749	1825	1993	2453	2554	3085	3255	3545	4454	5120
	1500Pa	1098	1316	1486	1516	1541	1814	1867	2148	2608	2760	3253	3423	3686	4595	5520
	1800Pa	1098	1316	1556	1586	1591	1667	1937	2148	2608	2844	3253	3565	3996	4905	5688
送风机段 Supply fan section	900Pa	1045	1265	1463	1463	1477	1795	1875	2056	2538	2575	3132	3305	3561	4492	5140
	1200Pa	1107	1289	1523	1523	1574	1864	1941	2126	2609	2697	3264	3437	3729	4668	5300
	1500Pa	1181	1412	1596	1596	1651	1930	1983	2281	2763	2904	3432	3605	3870	4809	5810
	1800Pa	1181	1412	1666	1666	1701	1930	2054	2281	2763	2988	3432	3747	4180	5119	6001

板式热回收段 Plate-fin heat recovery section	1453	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
转轮式热回收段 Rotary heat recovery section	2647	2857	3067	3321	3714	4247	4635	4773	4867	5144	-	-	-	-	-	
热管式热回收段 Heat pipe heat recovery section	634	717	784	796	840	950	1011	1155	1244	1478	1802	2024	2024	2246	2860	
加湿段 Humidifier section	干蒸汽加湿 Dry steam humidification	718	783	845	845	1046	1072	1116	1210	1280	1478	1732	1989	2110	2252	1692
	湿膜加湿 Wet-film humidification	449	504	548	548	601	657	704	791	846	999	1285	1365	1478	1667	1976
	高压喷雾加湿 High-pressure spray humidification	412	445	484	484	550	586	627	689	712	841	1011	1120	1234	1322	1695
均流段 Uniform flow section	424	461	498	550	589	589	633	689	726	844	989	1117	1209	1289	1711	
消声段 Muffler section	722	806	875	875	890	936	1012	1130	1207	1421	1690	1913	2045	2238	2835	
喷淋段 Spray section	1113	1213	1311	1311	1450	1546	1655	1817	1917	2228	2613	2949	3190	3409	4434	
中效出风段 Intermediate—efficiency out-let air section	882	1020	1099	1130	1202	1294	1444	1580	1661	1919	2252	2646	2798	2988	3740	
亚高效过滤段 Sub-high efficiency filter section	520	587	647	1194	1435	1435	1571	1689	1790	1521	1623	1708	1890	2051	2501	

注 Note:

- 根据设计好的需要功能段查找各个相应功能段对应的重量，然后相加即为机组的总重量。该重量不包含机组底座平台（用户提供）及运行时的冷冻水重量。运行时冷盘管重量应加8%余量。
According to the requirements of the design function to find the corresponding function section weight, then sum of them is the total weight of the unit. The unit weight does not include the base platform (users provided) and chilled water weight at running time. Cooling coil weight should add 8% margin at running time.
- 安放基础的承重能力应不小于2.5倍的机组重量。
The foundation bearing capacity should be not less than 2.5 times the unit weight.
- 加湿段及喷淋段重量不包含内部水盘内存水的重量。
Humidifier section and spray section weight does not contain the weight of the water inside the water dish.
- 未知段的重量请咨询创元市场部。
Unknown section weight consult ChuangYuan marketing department.
- 以上重量仅供参考。
The above weight is only for reference.

其他非标组合式(净化)空调机组

Other non-standard (purification) modular air-conditioning unit

我公司除了以上标准机型之外还有下述形式的组合式(净化)空调机组。

Besides the above standard units, we have the following forms of combined (purification) air-conditioning unit.

无框架型空气处理机组

Frameless air handling unit

该种结构采用新型的工艺,全部采用保温板拼装样式,内部仅有支撑的框架。其他部件选用均与标准型相同的配置。其外形美观、保温及密封性能好、组合灵活,特别适用于小型的组合式(净化)空调机组。风量范围在1000~50000m³/h,机外余压200~1000Pa。

This kind of structure with new technology, are all made of insulation board assembly form, only support shell frame inside. Other components choose the same configuration as the standard. It has beautiful appearance, heat preservation and sealing performance, flexible combination, especially suitable for small combined (purification) air-conditioning units. The air volume range is 1000~50000m³/h, external pressure is 200~1000Pa.



无框架型空气处理机组
No frame type air handling unit

智能机电一体化空气处理机组

Intelligent and mechatronics air handling unit

采用内置钢型材框架,外部为聚氨酯高压发泡保温板,底部为加强型的槽钢底座,内部可以包含所有的标准机型功能(按用户需求设计选用)及控制系统,出风口采用高性能的远程喷射球形喷嘴,广泛应用与机场、车站、各种会议的展览中心等大空间空调场所。该机组只要接通冷冻水及电源即可使用,无需设置庞大而复杂的送、回风管。风量使用范围20000~40000m³/h,气流喷射距离25米左右。

Use built-in profile steel frame and external with high-pressure polyurethane foam insulation board, reinforced bottom of the channel base, interior can contains all standard models feature (according to user needs to design and selection) and control system, The air outlet use high performance remote injection spherical nozzle which is widely used in large space air conditioning places such as airports, stations, conference and Exhibition Center, etc. As long as the unit turns on chilled water and power can be used, no need to set the large and complex supply and return air duct. The air volume range is 20000~40000m³/h, air jet distance of about 25 meters.



智能机电一体化空气处理机组
Intelligent and mechatronics air handling unit

如需选择非标机组请联系南京创元市场部,将要求提供给技术支持工程师,我公司将为你量身定制适合你需要的机组。

If you require non-standard units, please contact Nanjing ChuangYuan marketing department, provide the technical requirements to the technical support engineer, I will provide you tailor fit your needs unit. Our coMPany will provide you with tailor-made units.

使用须知 Use instructions

为了让每位设计院的工程师和广大用户选到理想的组合式(净化)空调机组,请阅读以下注意事项,帮助您选出经济、合理的空调机组,这也是创元公司的服务宗旨和理念。

In order to make every design institute of engineers and customers choose the ideal (purification) modular air-conditioning unit, please read the following notes, help you choose the economic and reasonable air conditioning unit, it is also ChuangYuan coMPany's service tenet and principle.

- 选用之前请详阅样本的说明,创元公司的组合式(净化)空调机组品种规格齐全、数据准确,可以满足不同场合和要求。
Before use, please read the sample description, ChuangYuan coMPany (purification) modular air-conditioning unit has a complete range of specifications, data accuracy, can meet different occasions and requirements.
- 您在项目初选设计中可以将空调机组的基本要求和表冷器前后空气参数用传真、电话、邮件等方式告诉本公司,本公司即可将要求输入CAD计算机工作站,经计算机处理后立即将空调机组的冷热热工计算结果传真给您,以便您的设计能顺利进行下去。具体要求和参数表格见附件1。
You can use the air parameter fax, telephone, mail and other measures to tell our coMPany the basic requirements of the air conditioning unit and the air parameter before and after cooling coil in the primary project design, we You will be asked to enter a CAD computer workstation, after processing, we will fax you the cold and hot thermal calculation results immediately, so that your design can proceed smoothly. See Appendix 1 for specific requirements and parameters.
- 您在设计中如果感到我公司空调机组在功能段的机构、排列功能等方面尚不能完全满足你的要求时请及时和本公司联系,本公司将会尽力满足您的要求。
If you find the unit function sections organization and arrangement function is not fully meet your requirements in your design, please contact our coMPany, we will try our best to meet your requirements.
- 您在最初设计时可使用《机型快速选型表》选出符合送风量的组合式空调机组高度和宽度的标准模数。《功能段分类表》、《常见功能段组合方式》可以确切地排出合理的功能段组合。利用《段长尺寸表》可以算出您选定的组合组合式空调机组的总长度。利用《常见功能段重量表》可以计算出您选定的组合组合式空调机组的总重量。利用《功能段空气阻力表》可以粗算组合式空调机组的总阻力。
You can use the "Standard mode quick selection table" in the initial design to choose air conditioning unit standard modulus height and width. The "Functional section classification table" and the "Common functional section compound mode" can be used to discharge the reasonable functional section combination. The total length of the air conditioning unit can be calculated by using "Section length dimension table". Using "Common functional section weight table" can calculate the total weight of the air conditioning unit you choose. The total resistance of the air conditioning unit can be calculated by using "Functional section air resistance table".
- 您在做施工图设计时可以在《各功能段的外形尺寸及技术性能》获得各功能段的确切资料,这样您就可以顺利地顺利完成组合组合式空调机组的选用和施工图设计,当还需进一步了解样本中未介绍的内容时可以和本公司联系,您将得到满意的答案。
when doing construction drawing design, you can get clear information for each function section at each functional section dimensions and technical performance table, so that you will be able to successfully complete the selection of the unit and drawing design, if you need to further understand the contents of the sample which is not introduced, please contact the coMPany, you will get a satisfactory answer.
- 工程设计时各个设计院和工程师采用参数的单位各不相同,为方便换算为自己熟悉的单位,在附录2里将各单位换算表列出来,换算请直接查用即可。
In engineering design, various design institutes and engineers use different parameter units, for expediently convert to their own familiar units, appendix 2 lists different unit conversion tables, please check the terms of use.

安装、运行与维护 Installation, operation and maintenance

机组的安装 The installation of the unit

- 机组的四周、尤其是检修门或接水管的一侧，应留有足够的空间供设备维护，最佳的空间应大于机组内部单台换热管的长度。

Around the unit, especially the access door or the water pipe side, adequate space for equipment maintenance, optimum space should be more than heat exchange tubes of the single unit.

- 机组应安装在高于机房地面200mm-300mm的平整水泥或槽钢焊接的基础上。基础长和宽应比机组大200mm，外面应有防止溢水的围堰和地漏。空调安装基础由用户自备，制作图纸可以由创元公司提供。

The unit should be installed 200mm-300mm above the ground on the smooth cement or welding steel based in the machine room. The length and width of the foundation should be larger than the unit by 200mm, and the outside should prevent the overflow cofferdam and drain. Air conditioning installation base is owned by the user, drawings can be provided by ChuangYuan.

- 各个进出水管在空调机组外须安装阀门，机组外的阀门、管道及其他重量不得由机组承担。

Each of the inlet and outlet pipes shall be installed valve outside of the air conditioning units, and the valves, piping and other weight shall not be bear by the unit.

- 机组负压段的冷凝水排水管应安装水封，按右图示正确连接，保证冷凝水的顺利排放。

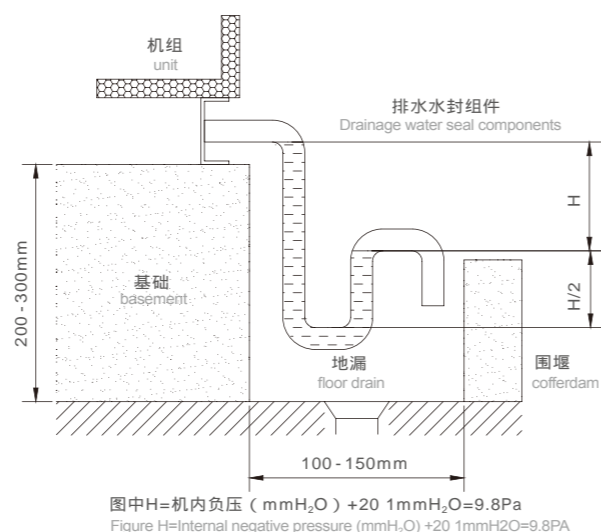
Units of the negative pressure condensate drain pipe should be installed water seal, according to the picture on the right shows the correct connection, guarantee the condensed water discharge smoothly.

- 外接水管的水路必须清洗干净后方可和机组的进出水管连接，连接时不可用力过猛以免损坏换热器。

The inlet and outlet pipe of the unit can be connected after the external connection water pipe cleaned, and the connection can't be too hard to avoid damage to heat exchanger.

- 电机应接在有保护装置的电源上，机组外壳应接地保护，大于15kW的电机应采用降压启动的方式。

The motor should be connected with the power supply protective device, and unit case should be grounded protection, using reduced-voltage start way if motor power greater than 15kW.



机组的运行 The operation of the unit

- 空调机组应由专门的人员管理运行，定期检查机组的运行情况并记录，发现异常应及时排除。
Air conditioning units should be operated by special management, and regularly check and record the operation of the unit, and the abnormal should be excluded.
- 机组在启动前应检查风机转动是否灵活、启动后及时检查转向的是否准确，电气设备应由专业的人员检查无误后方可开机。
Whether the fan rotation is flexible should be checked before starting the unit, starting to check whether the steering is accurate, electrical equipment should be professional inspection without error before starting.
- 机组如果有多重功能运行时，在控制上应考虑各个功能的连锁运行。
If there are multiple functions, the chain operation should be considered in the control.
- 机组在运转前应进行风阀调整，如空调机不接风管负载时应将风阀关闭3/4运行，并检查电机在额定电压下的电流，在任何时候不得将进风口或出风口全部关死，以防止机组发生不可恢复的形变，甚至可能发生机组保温板爆裂的严重事故。
Unit valves should be adjustment before operation, when air conditioner load, it does not connect with air duct, air valve should be closed 3 / 4, and check the motor under the rated voltage current, the inlet and outlet may not be all shut at any time, to prevent the occurrence of unrecoverable deformation, units insulation board may even burst.
- 运行时机组的冷却水为清洁软化水，其工作压力不得超过1.2MPa,蒸汽的供气压力为0.2-0.4MPa。
Chilling water is clean and softened water in the operating unit, the working pressure shall not be more than 1.2 MPa, steam gas supply pressure is 0.2-0.4 MPa.
- 冬季运行时，如需停机应保证机组内的水连续流动，如冬季不使用时应完全排除换热器内的积水，关闭新风阀，以防冻裂。
Operation in winter, when the unit goes down, you should ensure a continuous flow of water in the unit, if not be completely ruled out the ponding water inside of the heat exchanger, close the new valve to prevent cracking.

机组的维护 Maintenance of the unit

- 定期检查过滤器积尘情况，阻力达到终阻力时应进行清洗或更换。
Regularly check the filter dust, resistance reaches final resistance should be clean or replace.
- 定期检查皮带的松紧、磨损，如大化、过松应调整电机底板的调节螺栓。检查轴承的润滑情况，定期加锂基润滑脂，免维护的轴承除外。
Regularly check the tightness of the belt, wear, such as slipping, loose should adjust the motor floor adjustment bolt. Check the lubrication condition of the bearing, and lubricate the lithium grease regularly, except for the maintenance of the bearing.
- 换热器可用压缩空气或高压水冲洗翅片。
Heat exchanger can use compressed air or high pressure water to flush fins.
- 定期检查各部件的密封性，更换老化的密封条。
Regular check the sealing of the components, replace the old saying seal.
- 机组运行1-2年后应进行全面清洗、保养。
The unit should be cleaned and maintained after 1-2 years.

CYZ组合式(净化)空调机组订货附件(附录1)

CYZ series of(purification) modular air-conditioning unit order accessories (appendix 1)

用户名称 Username : _____ 联系方式 Contact information : _____

机组型号 Unit model : _____ 机组数量 Unit quantity : _____

序号 NO.	名称 name	技术要求 Technical requirements
1	风量 (m ³ /h) Air capacity(m ³ /h)	送风量 Air supply volume m ³ /h 新风量 Fresh air volume m ³ /h 排风量 Exhaust air volume m ³ /h
2	箱体面板规格 The box panel specifications	25mm 35mm 50mm
3	机组左右式 Unit left and right style	左式 Left type 左式 Right type
4	供冷量 (kW) Cooling capacity (kW)	kW
5	供热量 (kW) Heating capacity (kW)	kW
6	回风温度 Return air temperature℃	干球温度 Dry-bulb temperature 湿球温度 Wet bulb temperature (或RH %)
7	夏季新风参数 Winter outdoor parameters	干球温度 Dry-bulb temperature 湿球温度 Wet bulb temperature (或RH %)
8	冬季新风参数 Summer outdoor parameters	干球温度 Dry-bulb temperature 湿球温度 Wet bulb temperature (或RH %)
9	机外余压 External pressure	回风 Return air Pa 送风 Supply Pa
10	冷水进出水温度 Chilled water inlet and outlet water temperature	进水温度 The water inlet temperature 出水温度 The water outlet temperature
11	热水进出水温度 Hot water inlet and outlet water temperature	进水温度 The water inlet temperature 出水温度 The water outlet temperature
12	加热蒸汽压力 Heating steam pressure	MPa
13	机组最大外形尺寸 Unit maximum overall dimension	(mm)长 Length × (mm)宽 Width × (mm)高 Height
14	机组组装形式 Unit assembly form	散件现场组装 Spare parts field assembly 整机出厂 Overall machine shipment
15	能量回收单元 Energy recovery element	板翅式 Plate-fin type 转轮式 Heat pipe type 热管式 Heat pipe
16	能量回收类型 Energy recovery type	显热 Sensible heat 全热 Total heat
17	表冷器参数 Cooler parameter	管排数 Tube bay number n= 接管尺寸 joint pipe size DN 冷凝水管尺寸 condensate pipe size DN
18	加热器参数 Heater parameter	管排数 Tube bay number n= 接管尺寸 joint pipe size DN 冷凝水管尺寸 condensate pipe size DN

19	管制 Pipe type	2管制 Bi-tubes 4管制 Tetra-tubes 注:2管制:冷热换热器共用 4管制:冷热换热器分开 Note:bi-tube is hot and cold heat exchanger used in common , tetra-tubes: Hot and cold heat exchanger used separately
20	加湿段 Humidifier section	加湿量 Kg/h 加湿器类型 Humidification amount kg/h Humidifier types
21	冷凝水盘材质 Condensate water pan material	表面喷涂 Surface spraying 不锈钢 Stainless steel
22	初效过滤器 Primary filter	板式 Plate type 袋式 Bag type 过滤效率 Filter efficiency (欧洲新标准 European new standard)
23	中效过滤器 Medium efficiency filter	板式 Plate type 袋式 Bag type 过滤效率 Filter efficiency (欧洲新标准 European new standard)
24	其他过滤器 Other filters	板式 Plate type 袋式 Bag type 过滤效率 Filter efficiency (欧洲新标准 European new standard)
25	机组附件 Unit accessory	照明灯 Floodlight, 电源 Power supply 观察窗 Inspection window 压差计 Differential pressure gauge 压差开关 Differential pressure switch 数显温度计 Digital readout thermometer
26	送风方向 Air supply direction	送风方向 Air supply direction
26	新、回风方向 Fresh and return air direction	新风位置 Fresh air position 回风位置 Return air position
27	组合功能段名称 Combined function section name	
28	其它特殊要求 Other special requires	

注 Note :

- 如机房尺寸有限制请提供机组机房布置图。
If the room size limited please provide unit equipment room arrangement drawing.
- 功能段名称请按顺气流方向排列填写。
Please fill the function name out according to the arrangement in the airflow direction.
- 如有不明确请和创元市场部联系。
If there is any unclear, please contact with ChuangYuan marketing department.

常用单位换算 (附录2)

Commonly used unit conversion (appendix 2)

长度单位换算表 The length of the unit conversion table

毫米mm Millimeter mm	米m Meter m	英寸in Inch in	英尺ft Feet	码yd Yard yd
1	0.001	0.039	3.218×10^{-3}	1.094×10^{-3}
1000	1	39.37	3.281	1.094
25.4	0.0254	1	0.083	0.028
304.8	0.3048	12	3	0.333
914.4	0.9114	36	3	1

面积单位换算 Area of unit conversion table

平方米m ² Square meter m ²	平方英寸in ² Square inch in ²	平方英尺ft ² Square foot ²	平方码yd ² Square yd ²
1	1550	10.77	1.196
6.452×10^{-4}	1	6.94×10^{-3}	7.716×10^{-4}
0.0929	144	1	0.111
0.8361	1296	9	1

体积容积单位换算 Bulk volume unit conversion table

立方米m ³ Stere m ³	升L Litre L	立方英尺ft ³ Cubic foot ft ³	英制加仑gal(UK) UK gallon gal(UK)	美制加仑gal(US) US gallon (us)
1	1000	35.31	219.97	264.17
0.001	1	0.034	0.22	0.26
0.028	28.32	1	6.23	7.48
4.546×10^{-3}	4.55	0.16	1	1.2
3.785×10^{-3}	3.79	0.134	0.83	1

质量单位换算表 The quality unit conversion table

千克Kg Kilogram Kg	磅lb Pound lb	盎司OZ Ounce OZ	吨t Ton t		
			公制t Metric system t	美制t American system t	英制t British system t
1	2.02	35.274	0.001	1.102×10^{-3}	9.842×10^{-4}
0.454	1	16	4.536×10^{-4}	5×10^{-4}	4.464×10^{-4}
0.028	0.063	1	2.853×10^{-5}	3.125×10^{-5}	2.79×10^{-5}
1000	2204.6	35274	1	1.102	0.984
907.2	2000	32000	0.907	1	0.893
1016.1	2240	35840	1.016	1.12	1

力单位换算表 Power unit conversion table

牛N Newtons N	千克力Kgf Kilogram force Kgf	达因dyn Dyne dyn	磅力lbf Pound force lbf
1	0.102	105	0.225
9.807	1	9.807×105	2.205
10×10^{-5}	1.02×10^{-6}	1	2.248×10^{-6}
4.448	0.454	4.484×105	1

压力单位换算表 Pressure unit conversion table

帕Pa N/m ²	千克力/厘米 ² Kgf/cm ²	磅力/英寸 ² lbf/in ²	巴 bar	毫米汞柱 mmHg	毫米水柱 mmH ₂ O	标准大气压 atm
1	0.102×10^{-4}	0.145×10^{-3}	10^{-5}	7.5×10^{-5}	0.102	0.987×10^{-5}
98.067×10^2	1	14.233	0.981	735.56	10^4	0.968
6894.7	0.0703	1	0.069	51.716	703.7	0.0693
10^5	1.0197	14.504	1	750.1	1.02×10^4	0.987
133.322	1.36×10^{-3}	0.0193	1.333×10^{-3}	1	13.6	1.32×10^{-3}
9.807	10^{-4}	1.422×10^{-4}	9.81×10^{-5}	73.556×10^{-3}	1	9.68×10^{-5}
1.013×10^5	1.033	14.696	1.013	760	10333	1

流量单位换算表 Flow unit conversion table

立方米/小时 CMH	美制加仑/分 GPM	立方英尺/分 CFM	升/秒 l/s
1	4.4	0.589	0.278
0.227	1	0.134	0.063
1.699	7.48	1	0.472
3.6	15.85	2.12	1

功率单位换算表 Power unit conversion table

瓦 W	公制马力PS	英制马力HP	千克力·米/秒Kg.m/s	千卡/秒cal/s
1	0.00136	0.0134	0.102	2.389×10^{-4}
735.5	1	0.985	75	0.175
745.7	1.014	1	76.04	0.1781
9.807	0.0133	0.01315	1	2.34×10^{-3}
4187	5.7	5.61	427	1

比焓单位换算表 Specific enthalpy unit conversion table

瓦 W	千焦/时 KJ/h	千卡/时 kcal/h	美国冷吨 USRT	日本冷吨 JPNRT	新英国冷吨 UKRT	英热单位/时 BTU/h
1	3.6	0.86	2.843×10^{-4}	2.59×10^{-4}	2.395×10^{-4}	3.412
0.2778	1	0.239	7.898×10^{-5}	7.19×10^{-5}	6.654×10^{-5}	0.948
1.163	4.19	1	3.307×10^{-4}	3.01×10^{-4}	2.786×10^{-4}	3.968
3516.9	1.27×10^4	3024	1	0.911	0.842	1.2×10^4
3861.1	1.39×10^4	3320	1.098	1	0.925	1.318×10^4
4174.5	1.5×10^4	3589	1.187	1.081	1	1.424×10^4
0.293	1.06	0.252	8.33×10^{-5}	7.59×10^{-5}	7.02×10^{-5}	1

温度换算表 Temperature unit conversion table

温度 Temperature	摄氏度t °C	华氏度t ₁ °F	开尔文t ₂ K
t	t	9/5 t+32	t+273
t ₁ °F	5/9 (t ₁ -32)	t ₁	5/9 (t ₁ -32) +273
t ₂ K	t ₂ -273	9/5 (t ₂ -273) +32	t ₂

注 Note :

不同温标的温差转换公式

The difference in temperature of different scale conversion formula

- $t_1 (°F) = 9/5 t ()$
- $t () = 9/5 t_1 (°F)$