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ISO14001环境管理体系认证
Certified by ISO14001 environment system
首批荣获国家质检总局颁发全国工业产品生产许可证
First got the refrigeration equipment
production permit issued by National Quality Testing Bureau

AIR PURIFYING SERIES
净化系列
F5

IAQ FRESH AIR UNIT PIPE TYPE FRESH AIR UNIT

IAQ 洁净新风机
管道式洁净新风机



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以前我们认识世界，现在世界认识我们
We knew the world before, the world knows us now.



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DEZHOU YATAI GROUP

CHINA

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I Group CHINA
YATAI Group CHINA

亚太的品牌理念

全力推动创新科技的应用
致力于人类生活品质的提升、让科技引领生活
创世界满意品牌

THE CONCEPT OF YATAI BRAND

Promotes,with full strength,the application of innovative technology.Strives for the extension of living quality for human being,let the science and technology lead the new life and creates world satisfactory brand.

全球信赖品质

World Trusted Quality



德州亚太集团是国内大型中央空调制冷系统集成供应商。

集多年潜心研究，博采众长自成体系，打造出一流的中央空调全套设备和众多精品工程。国内以中央电视台新址、酒泉卫星发射中心、国家质检总局、三峡工程及近二十个北京奥运场馆等为代表，国外以巴基斯坦乌奇电厂、柬埔寨金边市大都会广场、印度帕帕多拉工程为代表的重点项目，采用了亚太中央空调设备，长期稳定，节能环保，获得了广泛的赞誉。

ISO9001、14001、3C、UL、CE、CRAA 等一系列认证；主机列入节能产品政府采购清单、数十项国家专利、国家级高新技术企业、中国驰名商标，充分标明了亚太集团的管理水平和产品水平。

与荷兰阿波罗合资，以欧洲标准制造的洁净设备全部返销发达国家、中央空调设备相继进入十几个国家和地区，展示亚太集团已经步出国门，与国际接轨。

植根齐鲁大地，秉持“以人为本”的经营理念，崇尚“以德待人”的儒家文化，亚太集团愿与您共同开创明天的辉煌。

Dezhou Yatai Group is a supplier of large central air conditioning and refrigeration system in China.

Yatai has developed whole set of advanced central air conditioner and lots of wonderful projects based on long-term research and features of the others. Many famous projects adopted Yatai central air conditioners that run smoothly, save energy, protect environment and won good reputation widely like the New CCTV, the Jiuquan Satellite Launching Center, the General Bureau of National Quality Inspection, Three-gorge Engineering Project, over 20 Beijing Olympic Stadiums and others in China; the UCH Power Plant in Pakistan, the Phnom Penh Capital Squire in Cambodia, the Priyadarshini Jurala Project in India and others across the world.

Yatai has certified by ISO9001, 14001, 3C, UL, CE, CRAA and others; its chiller names have been put on the government purchasing list as energy saving products and obtained dozens of national patents, National High-technology Enterprise and Chinese Famous Trademark, which show the managements and product qualities of Yatai Group.

The filtering equipment made by the joint venture, co-invested with Dutch Afpro Company, according to the European Standards air exported fully to the developed countries; the central air conditioners have exported to over 10 countries or regions, which show that Yatai Group has stepped into oversea markets and been in the line with the international.

Located at Shandong Province, insisting on business idea of "humanism" and advocating the Confucianism of "getting along with people by morality" Yatai Group wishes to create a brilliant future with you.



中国德州亚太集团
CHINA DEZHOU YATAI GROUP



以一流技术研制全方位产品

Developing the omni-directional products by the first-class technology

使用精品 造就精品

世界著名制造商生产的最现代化装备和领先同行业的高科技含量是亚太始终保持竞争优势的强力保证

Using high-quality goods Making high-quality goods

The modernized equipment produced by world famous manufacturers And the high content leading in the same profession

Are Yatai's guarantee of maintaining his competitive advantage all the time

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World Trusted Quality



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Honorable Qualification



AIR PURIFYING
SERIES
净化系列

IAQ FRESH AIR UNIT
PIPE TYPE FRESH AIR UNIT
IAQ洁净新风机
管道式洁净新风机

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净化配套产品
Relative Products Of Air Cleaning



ZK-J净化组合式空调机组
ZK-J Packaged Air Purifying And Handling Units



ZK-JD风冷净化空调机组
ZK-JD Air-cooled Room Air Handling Unit



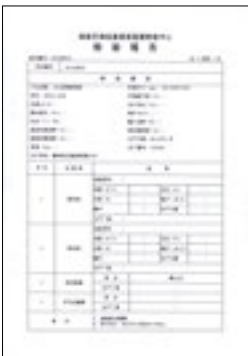
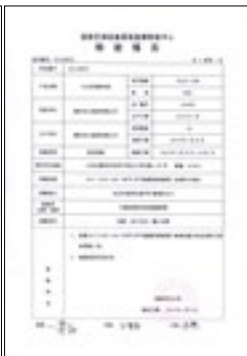
ZK-XJPM洁净新风机组
ZK-XJPM Air-cooled clean room air handling unit

IAQ FRESH AIR UNIT PIPE TYPE FRESH AIR UNIT

IAQ 洁净新风机 管道式洁净新风机

AIR PURIFYING
SERIES
净化系列







净化配套产品
Relative Products Of Air Cleaning



ZK-J净化组合式空调机组
ZK-J Packaged Air Purifying And Handling Units



ZK-JD风冷净化空调机组
ZK-JD Air-cooled Room Air Handling Unit



ZK-XJPM洁净新风机组
ZK-XJPM Air-cooled clean room air handling unit

前言

Preface

PM2.5是什么，它对人们的生活有多大影响？可能很多人都不太清楚。按照专业的说法，PM2.5即泛指直径小于等于2.5微米的粉尘（微米即千分之一毫米），由于它比人体最小的细胞还小，可以直接穿透肺部，进入血液从而严重危害我们的身心健康。

有人简单的以为口罩可以解决问题，其实这种想法是不正确的，因为真正能挡住PM2.5的口罩，人们几乎不能呼吸。那我们如何才能免受其害呢？一是减少能源消耗，因为空气污染90%以上来自于能源燃烧产生的废气。二就是采用室内空气净化产品，直接过滤掉不干净的对我们有害的浮游尘埃。

亚太热回收洁净新风系统能够实现24小时新风循环，在引入新风的同时，可以全效滤除新鲜空气中的各种细菌、细微的PM颗粒物和有害挥发物质，保证输入室内的空气新鲜洁净，排风系统将室内由人体、人的生活行为、家具产生的污浊空气排出，除此之外该机组内置的热回收装置可以对室内外空气进行热湿交换，保证室内换气的同时，也会尽量减少冷暖能量损耗，让人们享受新鲜空气的同时，更享受空调带来的舒适温度。

此外，亚太集团还有专业换气设计团队提供免费咨询和专属换气设计，为客户量身定制换气方案，提供全方位高效、节能的换气环境。

What is PM2.5 and how does it affect people's lives? Maybe a lot of people don't know. Professionally speaking, PM2.5 refers to dust with a diameter of 2.5 microns or less. (1 micron equals to 1/1000 millimeter.) Because it is smaller than the smallest cells in the human body, it can penetrate directly into the lungs and enter the blood, thus seriously harming our physical and mental health.

Some people simply think that masks can solve the problem, but actually this idea is not correct, because masks that can truly block PM2.5 can hardly allow people to breathe. So how can we protect ourselves from it? One is to reduce energy consumption, because more than 90 percent of air pollutants come from exhaust fumes from energy combustion. Second is to use indoor air purification products, directly filtering out the dirty harmful floating dust.

Yatai heat recovery fresh air system can realize 24-hour fresh air circulation. At the same time of introducing fresh air, it can fully filter out all kinds of bacteria, fine PM particles and harmful volatile substances in the air, so as to ensure indoor air fresh and clean. Exhaust air system will discharge indoor polluted air produced by human body, human behavior and furniture out. Besides, the built-in heat recovery device can realize heat and humidity exchange between indoor and outdoor air, which ensures air ventilation and also reduces loss of energy. Both fresh air and comfortable temperature are guaranteed.

In addition, Yatai Group also has a professional ventilation design team to provide free consultation, exclusive ventilation design, customized ventilation scheme for customers, and a full range of efficient, energy-saving ventilation environment.

YATAI GROUP

IAQ系列热回收洁净新风机

IAQ series heat recovery fresh air unit

亚太公司IAQ系列热回收洁净新风机是根据执行标准GB/T21087-2007、国家卫生组织制定PM2.5上限要求研发生产的专用双向流净化空调机组。风量范围180-280m³/h，全热回收效率77%。机组具有对空气进行PM2.5过滤、全热交换、除异味等功能，适用于住宅、酒店、写字楼、商场、学校、洁净室等许多场所。

该机组采用主动净化送风，主动排风原理，在向室内补充新鲜干净空气的同时把室内污浊空气排出室外。外壳采用钢板静电喷涂，叶轮采用多翼式单侧离心进风技术。

整机具有外形美观、机体强度高、耐腐蚀性好、体积小、噪音低、重量轻、运行稳定等特点。新风主机配置有2台风机，独立的送排风通道，杜绝交叉混风。

Yatai brand IAQ series heat recovery fresh air unit is a two-way flow purification air-conditioning unit developed and produced according to the executive standard GB/T21087-2007 and upper limit of PM2.5 made out by the national health organization. Air flow range is 180-280m³/h. Total heat recovery efficiency is 77%. The unit has functions of PM2.5 filtration, total heat exchange, odor elimination, etc., which is suitable for residential buildings, hotels, office buildings, shopping malls, schools and clean rooms.

The unit adopts the principle of active air purification and supply and active air exhaust, which can supply fresh and clean air to the room and at the same time discharge dirty indoor air out of the room. The shell is made of electrostatically sprayed steel plate, and impeller adopts multi-wing single-side centrifugal air inlet technology. The machine has characteristics of beautiful appearance, high strength, good corrosion resistance, small size, low noise, light weight and stable operation. Fresh air main machine is equipped with two fans. Independent air supply and exhaust channels prevent air mixing.



技术特点

Technical characters

◎ 双重净化功能先进性

机组内置两级空气过滤，采取抽拉式设计，可自由拆卸，方便清洗更换。初效过滤可反复清洗，高效过滤PM2.5过滤效率可达99%以上。

◎ 节能低噪先进性

机组内置高效全热交换芯体，能够有效进行空气中温湿交换，效率高达77%，大大降低了能耗，而且减少了空调和暖气使用量。

◎ 智能控制先进性

机组可以让新风系统处于节能运行状态，可根据室内空气温度实时调节，既节省系统能耗也节省系统运行的部件损耗，让空气新鲜更节能。

◎ 使用维护先进性

机组采用面板扣板式设计，无需专业工人专业工具即可打开面板置换过滤网和热交换芯体，维护更加方便。

Advanced double purification function

The unit is equipped with two levels of air filtration device and designed into a pull-out style. It can be disassembled freely for easy cleaning and replacement. The primary filtration can be cleaned repeatedly, and the PM2.5 filtration efficiency of high efficiency filters can reach more than 99%.

Advanced energy saving and low noise

The unit is equipped with a high-efficiency total heat exchange core, which can effectively exchange temperature and humidity of the air with efficiency up to 77%. Thus, energy consumption and the use frequency of air conditioning and heating units are greatly reduced.

Advanced intelligent control

The unit can make the fresh air system in an energy-saving operation state, and can adjust it according to the indoor air temperature in real time, which can not only save the energy consumption of the system but also reduce wear and tear on parts resulted from system operation, so as to make the air more fresh.

Advanced use and maintenance

The unit adopts pinch plate design, which makes maintenance more convenient.

Non-professional workers can open the panel to replace a filter screen and heat exchange core easily.



机组参数

Parameters

型号 Model	风量 (m ³ /h) Air volume	输入功率 (W) Power input	送风余压 (Pa) Air supply surplus pressure	排风余压 (Pa) Air exhaust surplus pressure	制热温度交换效率 Exchange efficiency of heating temperature	噪音 dB (A) Noise	重量 (kg) Weight
ZK180-XJPM	180	125+130	130	70	77%	40	38
ZK250-XJPM	250	166+179	130	70	77%	41	40
ZK280-XJPM	280	216+231	130	70	77%	43	42

备注:

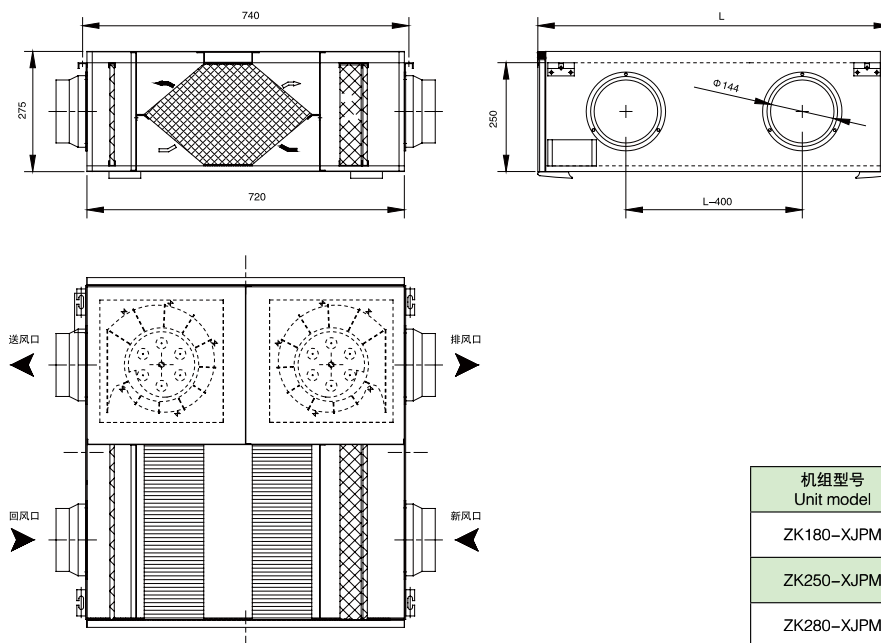
- 1、以GB/T21087-2007为测试标准。
- 2、额定风量和机外静压是以电机的运行效率最高点来设定的，中、低挡风量比例分别为0.65、0.45。
- 3、风量和余压是本公司测试结果的平均值，分别有5%和10%的公差范围。
- 4、输入功率和交换效率是在标准风量下测量的数值。
- 5、噪音值是在全消声噪音测试室中测量的。在实际条件下，由于受环境影响，噪音值会大于所标的数值。
- 6、性能参数仅供参考，本公司保留更改设计的权利，恕不另行通知。

Note:

1. Texting standard is GB/T21087-2007.
2. Rated air volume and external static pressure are set based on the highest operating efficiency of the motor. The ratio of medium and low air volume is 0.65 and 0.45 respectively.
3. The air volume and surplus pressure are the average values of the company's test results, with a tolerance range of 5% and 10% respectively.
4. Input power and exchange efficiency are measured under the standard air volume.
5. The noise value is measured in the full muffled noise test room. Under actual conditions, the noise value will be greater than the labeled value due to environmental impact.
6. Performance parameters are for reference only. We reserve the right to change the design without prior notice.

机组外形图

Physical outline



机组型号 Unit model	L (mm)
ZK180-XJPM	700
ZK250-XJPM	800
ZK280-XJPM	900

管道式洁净新风机

Pipe type fresh air unit



技术特点

Technical characters

◎ 整体结构

结构紧凑、体积小、安装灵活，机组左右式通用。

◎ 节能低噪

采取可抽拉式三层滤网和单进风离心风机技术，运行更节能，噪声更低。

Overall structure

Compact structure, small size, easy installation. Unit is suitable both for left and right types.

Energy saving and low noise

Adopting the technology of pull-out type three layer filter screen and single inlet centrifugal fan, the unit is more energy saving and less noisy.

Intelligent control

The fan gear can be adjusted timely according to the concentration of indoor CO₂ and PM_{2.5}, so as to keep enough fresh air in the room.

Use and maintenance

The unit adopts pinch plate design. Non-professional people can open the panel to replace filter net without professional tools. Maintenance is very simple.

◎ 智能控制

可根据室内CO₂和PM_{2.5}浓度对风机档位进行适时调节，让室内保持足够的新鲜空气。

◎ 使用维护

采用面板扣板式设计，无需专业人员专业工具即可打开面板置换滤网，维护更加方便。



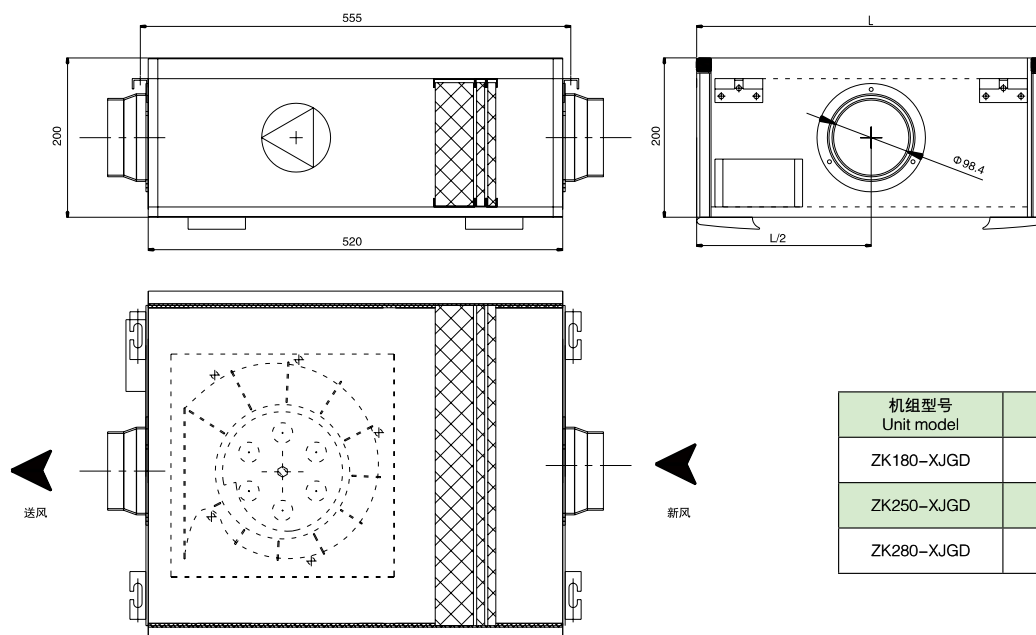
机组参数

Parameters

型号 Model	风量 (m ³ /h) Air volume	功率 (W) Power	送风余压 (Pa) Air supply surplus pressure	重量 (kg) Weight
ZK180-XJGD	180	125	130	38
ZK250-XJGD	250	166	130	40
ZK280-XJGD	280	216	130	42

机组外形图

Physical outline



机组型号 Unit model	L (mm)
ZK180-XJGD	438
ZK250-XJGD	438
ZK280-XJGD	538

全热交换器

Total heat exchanger

◎ 工作原理

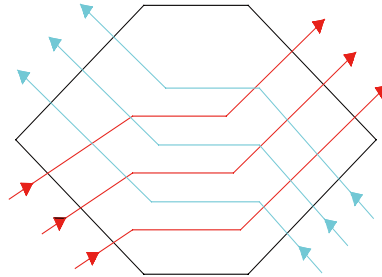
两股气流存在温湿度差时，就会发生湿热传递为原理而运行新风和排风完全分开，避免了任何气味和水分的传递。两股空气交叉进入板式换热器，新风和排风的能量通过平板进行热交换，即温度由较热的一侧传递到较冷的一侧，湿度由较大的一侧传递到较小一侧，从而实现回收排风中的能量。

Working principle

When there is a difference in temperature and humidity between the two air flows, the operation of fresh air and exhaust air are completely separated, avoiding any transmission of odor and moisture. Two air flows cross into the plate heat exchanger, the energy of fresh air and exhaust air exchange heat with each other through the plate, that is, the temperature from the hot side transmit to the cold side, humidity from the higher side to the lower side, so as to achieve the recovery of energy in exhaust air.

气流方向

Airflow direction



功能特点

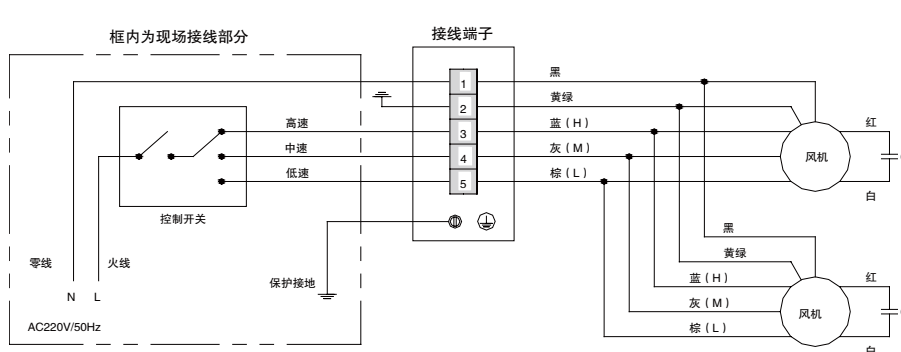
- ◆ 交叉逆流板式全热型热交换器主要是由专用纤维利用特殊工艺制成的纸张构成，这种纸张具有透湿率高、气密性好、抗撕裂、耐老化、防霉变的特点。
- ◆ 采用ABS塑料框架，美观、不易破损、使用寿命长、环保、密闭性好，保证了热交换器的结构强度及严密性，减少串气。
- ◆ 矩形通道结构，合理板间距，内支撑少，阻力小，风压损失小，保证了传热面积的最大化，从而达到最大的换热效率；解决了板翅式全热交换芯体普遍存在流动阻力大、传热系数与压降之间的优选问题。
- ◆ 没有运动部件，设备维护费用较少。
- ◆ 可使用真空吸尘器去除热交换器元件上的灰尘和异物，使用方便，维护简单。

Functional characteristics

- ◆ Cross-counterflow plate type total heat exchanger is mainly made of papers specially processed by exclusive fibers. This kind of paper has advantages of high moisture permeability, good air tightness, tear resistance, aging resistance and mildew prevention.
- ◆ Using ABS plastic frame which has characteristics of beauty, damage resistance, long service life, environmental protection and good tightness. Structural strength and tightness of the heat exchanger have been guaranteed and gas crossing is reduced.
- ◆ Rectangular channel structure, reasonable plate spacing, less internal support, small resistance and small loss of wind pressure ensure the maximum heat transfer area, so as to achieve the maximum heat transfer efficiency. The problems of high flow resistance, heat transfer coefficient and pressure drop of cores of plate and fin type total heat exchanger are solved.
- ◆ No moving parts require less maintenance costs.
- ◆ Vacuum cleaner can get rid of the dust and foreign matter on heat exchanger components. It is easy to use. Maintenance is simple.

电气原理图

Electrical schematic diagram



框内为现场接线部分
零线、火线
控制开关、高速
中速、低速
保护接地
接线端子
黑、黄绿
蓝、灰
棕、风机
红、白

Within the frame is on-site wiring
Neutral wire, Live wire
Control switch, High speed
Medium speed, Low speed
Protective grounding
Wiring terminal
Black, Yellow green
Blue, Gray
Brown, Fan
Red, White



◎ 电气接线

- ◆ 确认有单独的供电回路供机组使用!
- ◆ 机组额定电源参数: 220V ± 10%, 50Hz。
- ◆ 严格按照机组电气原理图进行接线, 严禁出现高、中、低档与零线档混接的情况, 以防烧坏电机。
- ◆ 机组须可靠接地, 接触不良或安装不当可能会造成火灾。
- ◆ 接通电源后请仔细查看电机运转是否正常, 如有异常现象须立即切断电源, 检查线路连接是否正确, 待故障排除后方可接通电源投入使用。
- ◆ 必须安装漏电断电保护器, 否则可能会引起触电事故。

Electrical wiring

- ◆ Make sure there is independent loop power supply for the unit.
- ◆ Rated power parameters: 220V ± 10%, 50Hz.
- ◆ Strictly follow the electrical schematic diagram of the unit for wiring. It is strictly prohibited to mix high, medium and low gear lines with zero line to avoid burning out the motor.
- ◆ The unit needs to be connected to the ground. Poor contact or improper installation may cause fire.
- ◆ After switching on the power, please check carefully whether the motor is running normally. If there is any abnormal phenomenon, cut off the power immediately and check whether its lines are connected correctly. The power can be switched on and put into use after troubleshooting.
- ◆ Power leakage protector must be installed, or it may cause an electric shock.

机组安装

Installation

- ◆ 将机组安装在足以承受机组重量的地方, 并且机组四周应留有充分的维修空间。承重强度不够或安装不牢可能会导致机组跌落, 造成人身伤害。
- ◆ 确认外部空气吸入风口位置远离有可燃气体的存在, 否则可能会导致发生事故。
- ◆ 外接进、出风管应采取柔性连接, 以免振动传递及风管重量由机组支承。
- ◆ 安装室外风管必须保证下斜率, 以防雨水进入机组, 引起电击和火灾。
- ◆ 将室外管道和供气管道用隔热材料包裹, 防止凝结水产生。
- ◆ The unit shall be installed in a place where it can support the weight of the unit and there shall be sufficient maintenance space around the unit. Inadequate load bearing strength or poor installation may cause the unit to fall, resulting in personal injury.
- ◆ Make sure the place where external air is drawn into the air opening is far away from the presence of combustible gas, or it may cause an accident.
- ◆ The external air inlet and outlet ducts shall be flexibly connected to avoid vibration transmission. The weight of air ducts shall not be supported by the unit.
- ◆ The installation of outdoor air duct must have a slope downward to prevent rain flowing into the unit, causing electric shock and fire.
- ◆ Wrap outdoor pipes and gas supply pipes with insulation material to prevent condensation water.

使用维护

Use and maintenance

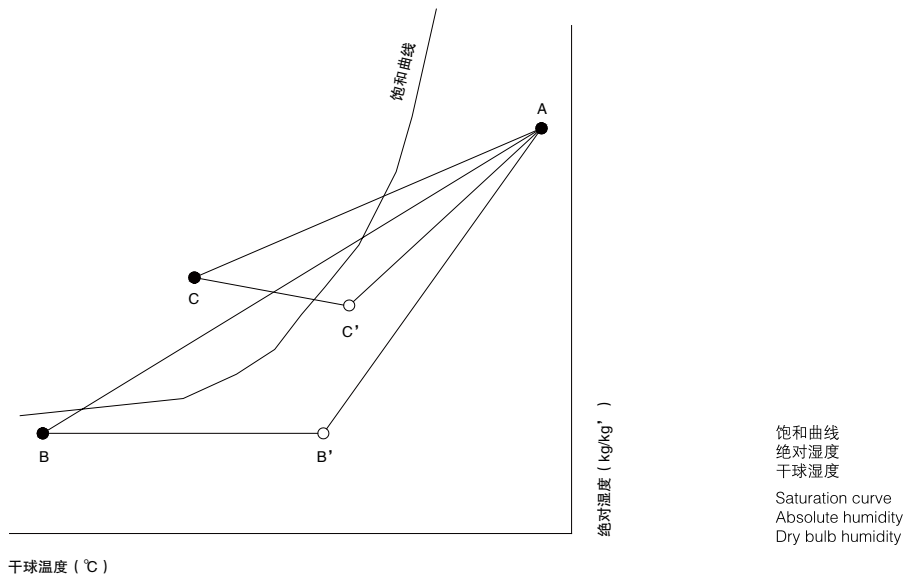
- ◆ 应定期检查风机、电机等运动件的联接、运行情况, 如有松动须及时调整。
- ◆ 过滤器应定期清洗, 以保证机组使用效果, 如发现风量减小, 一般为过滤器积尘过多所致。建议初效过滤器每月清洗1次。清洗时可先行拍打或用压缩空气反吹, 再用肥皂水或清洗剂清洗干净。
- ◆ 亚高效过滤器应定期更换, 建议4个月更换1次, 也可根据使用情况确定。
- ◆ 机组运行2~3年后应进行全面保养, 以保证换热器的换热效率。
- ◆ The connection and operation of fan, motor and other moving parts should be checked regularly. If it is loose, it should be adjusted in time.
- ◆ The filter should be cleaned regularly to ensure operation effect of the unit. If air volume is found to decrease, it is generally caused by too much dust accumulated in the filter. It is recommended to clean the primary filter once a month. When cleaning, you can pat or blow back with compressed air, and then clean it with soap water or cleaning agent.

- ◆ The sub-high efficiency filter should be replaced regularly. It is recommended to replace it once every 4 months. It can also be determined according to the situation.
- ◆ The unit should be fully maintained after 2 ~ 3 years of operation to ensure the heat exchange efficiency.

注意事项

Attentions

- ◆ 当金属风管穿过金属格网或木墙结构的金属内衬时要对风管和壁面作绝缘保护，以防电击或短路。
- ◆ 机组框架面板均经特别隔热处理，如遇高温高湿等极端情况时可采取减少新风进入等措施避免凝露现象的发生。
如下图所示，将高温侧吸入空气条件A和低温侧吸入空气条件B绘成空气曲线图，高温侧空气A经热回收机组进行热交换后，形成空气状态点C，因C点在饱和曲线外，热回收机组会出现结雾或结霜。在这种情况下，请将低温侧空气加热，使B点到B'点，C点到C'点，然后再使用。



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- ◆ When the metal air duct goes through the metal grid or metal lining of wooden wall structure, we need to insulate air duct and wall surfaces to prevent electric shock or short circuit.
 - ◆ The frame panel of the unit is specially insulated, and measures can be taken to reduce the fresh air in case of extreme conditions such as high temperature and humidity to avoid condensation.
- As shown in the figure below, air intake condition A on the high-temperature side and air intake condition B on the low-temperature side are plotted into an air curve. After heat exchange of air A on the high-temperature side with the heat recovery unit, the air state point C is formed. Since point C is outside the saturation curve, fog or frost will appear on the heat recovery unit. In this case, please heat the low temperature side air so that point B goes to point B', point C to point C', and then you can use.
- Please consult the Purification Department of Yatai Group if you need more information.



净化配套产品
Relative Products Of Air Cleaning

ZK-J净化组合式空调机组
ZK-J Packaged Air Purifying And Handling Units

ZK-JD风冷净化空调机组
ZK-JD Air-cooled Room Air Handling Unit

ZK-XJPM洁净新风机组
ZK-XJPM Air-cooled clean room air handling unit



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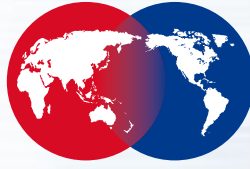
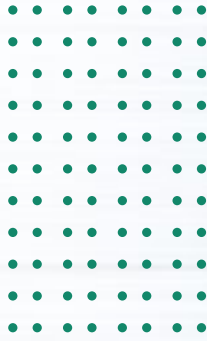
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