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《莱通产品手册》为V.23.01版本, LTM保留对产品规格及技术资料的更新, 请即时登录LTM官方网站下载最新版本。

LTM Product Manual is of version V.23.01, and LTM retains right to update product specification and technical data.
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全新风辐射空调系统

Fresh air radiant air conditioning system



领先的室内空气处理技术

Führende Raumluftaufbereitungstechnik

COMPANY PROFILE

莱通简介

1992年,莱通LTM(Luftungstechnik Meiner-zhagen)创立于德国迈纳茨哈根,总部位于德国南部城市乌尔姆(Ulm),是一家专注于空气处理技术的设备制造商。

In 1992, Luftungstechnik Meiner zhagen was founded in Minazhagen, Germany, with its headquarters in the southern city of Ulm. It is an equipment manufacturer specializing in air handling technology.

近30年来, LTM已经成长为受人尊重、值得信赖的国际化空气处理技术集团; LTM从拥有第一项核心专利技术开始不断发展扩大, 以创新、优质且获得权威认证的优质产品而广受建筑师、设计师和代理商的青睐;

In the past 30 years, LTM has grown into a respected and trustworthy international air treatment technology group. Since its first core patent technology, LTM has been developing and expanding, and it is widely favored by architects, designers and agents for its innovative, high-quality and authoritative products;

SINCE 1992

中国区研发中心(启东)
江苏莱通环境科技有限公司



Expert in Healthy Air Solutions

来自德国的 健康空气解决专家



1992

全球第一台无管道新风机Thermo-Lufter在LTM研制成功,近30年来, LTM的研发团队,在不断变化的市场需求中取得了巨大进步, LTM的创新产品因为这些需求而不断诞生,目前, LTM已经成长为全球性的空气处理技术集团。

thermo lufter, the world's first ductless fresh air fan, was successfully developed in LTM. In the past 30 years, the research and development team of LTM has made great progress in the changing market demand. The innovative products of LTM are constantly born because of these demands. At present, LTM has grown into a global air treatment technology group.



2014

LTM研发的Dezent系列产品荣获德国节能行业"TGA" 大奖。

2017

LTM入选央视CCTV《匠心》栏目专访, 获得中国市场肯定。

dezent series products developed by LTM won the "TGA" award of German energy saving industry.

LTM was selected for an exclusive interview with CCTV'S "ingenuity" column, which was affirmed by the Chinese market.



2020

江苏莱通环境科技有限公司成立。新公司入驻江苏启东生命健康科技城,将专注于全新风冷暖辐射系统的研发与生产。

Jiangsu LTM Environmental Technology Co., Ltd. was established. The new company has settled in Jiangsu Qidong Life and Health Technology City and will focus on the research and production of new air cooling and heating radiation systems.

01

呵护健康的空气

PROTECTING HEALTHY AIR

莱通作为健康空气呵护者,自1992年于德国成立以来,坚持以创造人类健康舒适的室内环境为己任,致力于空调通风领域高品质产品和系统的研发和生产。大量投入的研发工作使莱通一直位于行业技术创新的前沿。

Since its establishment in Germany in 1992, Leitong, as a health air caretaker, has been committed to Adhering to the mission of creating a healthy and comfortable indoor environment for human health, we are committed to air conditioning and ventilation R&D and production of high-quality products and systems in the wind field. Large investment in research and development The work has kept Leitong at the forefront of technological innovation in the industry.

02

一站式解决方案

ONE-STOP SOLUTION

莱通正在从单纯的设备制造商发展为全系统供应商,真正为客户提供“一站式服务”。莱通百分百自主研发的全新风辐射空调系统集冷暖机组、空气处理机组、辐射模块和智能控制四大技术于一身,是暖通领域的一座里程碑。

LTM is developing from a simple equipment manufacturer to a full system supplier, truly Provide customers with a "one-stop service". A brand new product independently developed by LTM The wind radiation air conditioning system integrates cooling and heating units, air handling units, radiation modules, and The integration of the four major technologies of intelligent control is a milestone in the field of HVAC.

03

非凡的领先技术

EXTRAORDINARY LEADING TECHNOLOGY

近30年来,莱通以先进的技术和卓越的创新引领着行业未来,生产的每一款产品在质量、性能、灵活性、可靠性、能效和洁净度等多个方面都达到了非常高的标准,尤其是全新风辐射空调在公共领域应用中可实现的“零交叉感染”所带来的卫生安全成就,颠覆传统,引人注目。

In the past 30 years, LTM has led the industry's future with advanced technology and outstanding innovation, Every product produced in terms of quality, performance, flexibility, reliability, and energy efficiency It has reached very high standards in various aspects such as cleanliness, especially the all-new wind The "zero cross infection" that radiation air conditioning can achieve in public domain applicationsThe achievements in health and safety have overturned tradition and attracted attention.

04

量身定制解决方案

TAILORED SOLUTIONS

莱通与客户紧密合作,根据各个建筑的特点和用户的需求提供量身定制的系统方案。可持续性的解决方案有助于提高人们的舒适度,保护生命,进而保护整个环境。

LTM closely cooperates with customers, based on the characteristics of each building and the needs of users Provide customized system solutions. Sustainable solutions help improve Improve people's comfort, protect life, and thus protect the entire environment.

RESEARCH SOLUTIONS FOR IMPROVING AIR QUALITY

我们研究改善空气的解决方案 帮助人类呼吸新鲜空气



全球化的智能制造体系

Global intelligent manufacturing system

领先的室内空气处理技术

Leading indoor air treatment technology

稳定的产品与服务质量

Stable product and service quality



Free your Space

simpler
comfortable life

莱通五恒系统

Fresh air radiant air conditioning system

全新风辐射空调系统



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莱通五恒系统

Fresh air radiant air conditioning system

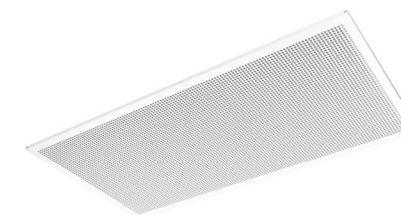
置身天然氧吧 静享静谧生活

System composition

— 系统构成

A 系统末端
冷暖辐射吊顶

End of system
radiant ceiling



B 空气处理
新风除湿机组

Air handling
Fresh air
dehumidification unit



C 冷热源
冷热水机组

Cold&heat sources
water chiller-heater unit



D 智能控制
温湿度、露点、
空气品质控制

Intelligent control
Temperature and humidity,
dew point, air quality control



Working principle of radiant ceiling

冷暖辐射吊顶工作原理



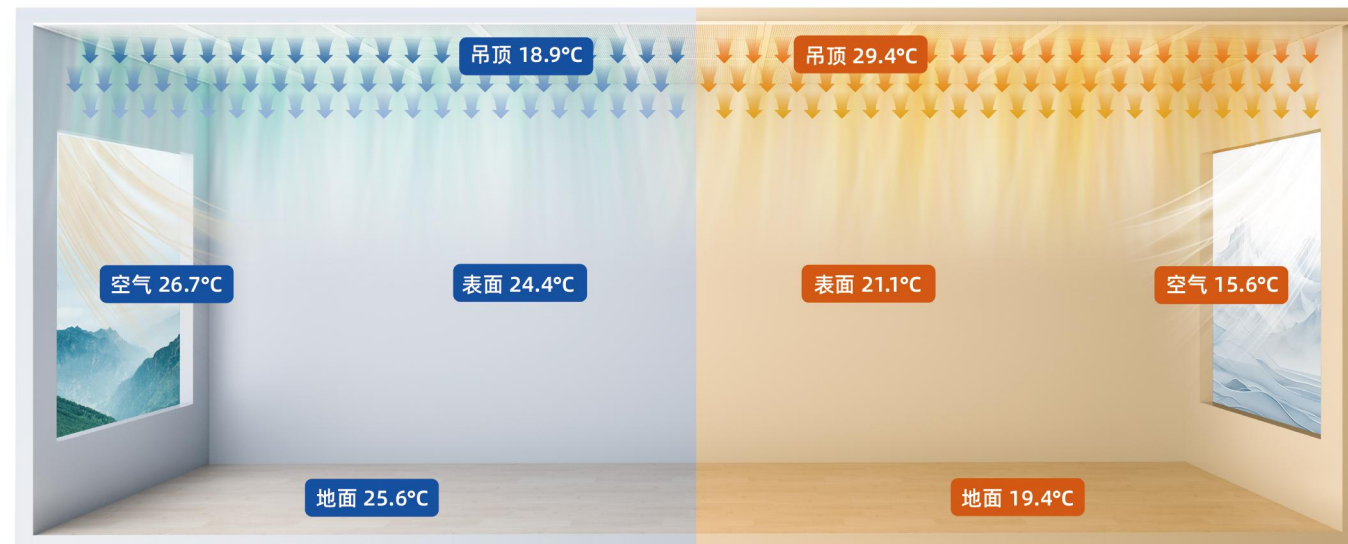
太阳的辐射源于自然：
感受原始的制热、制冷；



The radiation of the sun comes from nature: feel the original heating and cooling; let you be in the forest like silence.

符合人体温度舒适区间

Conforming to the comfortable range of human body temperature



冷辐射 Cold radiation

热辐射 Heat radiation

辐射冷暖系统,室内全年温度均衡在
冬季 $20\pm 2^{\circ}\text{C}$ 、夏季 $24\pm 2^{\circ}\text{C}$,
达到人体最优的舒适区间标准。

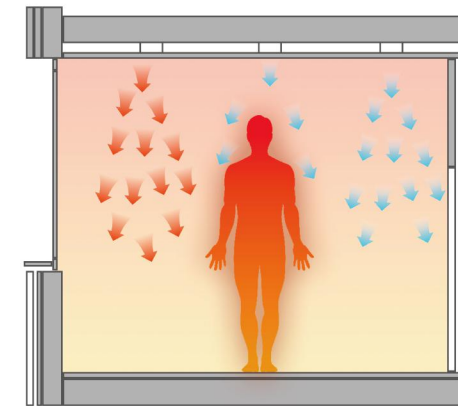
Radiation cooling and heating system, indoor temperature balance in winter
 $20\pm 2^{\circ}\text{C}$ 、summer $24\pm 2^{\circ}\text{C}$, reaching the optimal comfortable range standard of
human body.

Different from traditional air conditioning

区别于传统空调

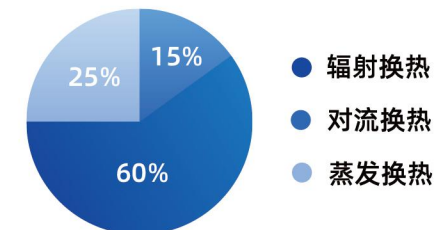
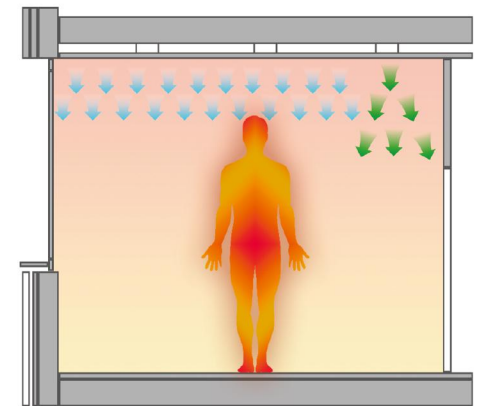
传统空调

Traditional air conditioning



五恒系统

Fresh air radiation air conditioning system



气流带走室内负荷

Air flow takes away indoor load

强烈的吹风感

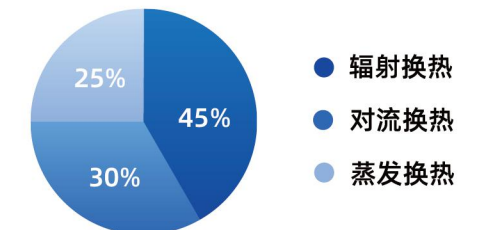
A strong sense of wind blowing

换热比例不协调

Inconsistent heat exchange ratio

热平衡差

Thermal balance difference



辐射传热

Radiative heat transfer

无吹风感

No hair blowing sensation

换热比例适宜

Appropriate heat exchange ratio

热平衡好

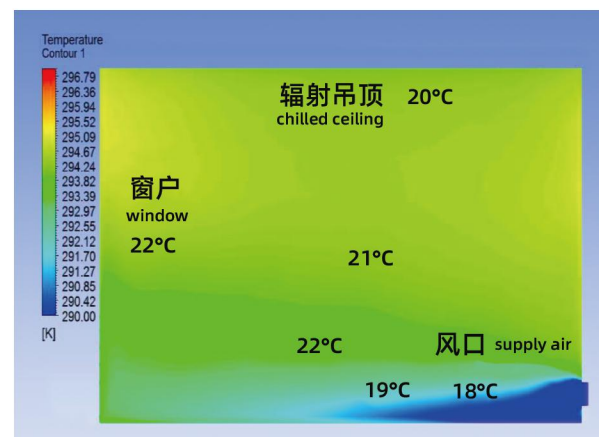
Good thermal balance

Uniform temperature distribution

冷暖辐射温度分布均匀

温度分布均匀

Uniform temperature distribution



温度场

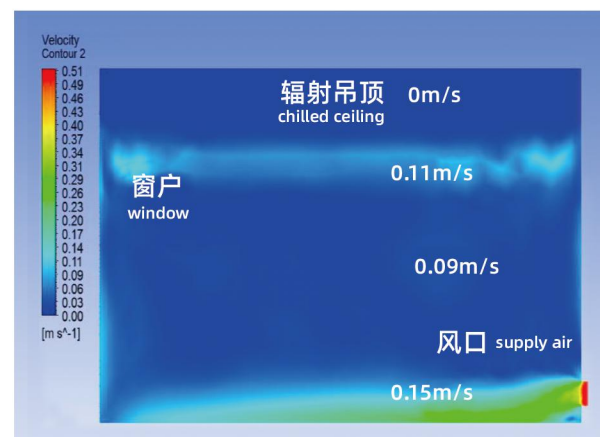
Temperature field

辐射空调系统是直接冷却/供暖系统（显热）

The radiant air conditioning system is a direct cooling/heating system (sensible heat)

气流流动缓慢，温度分布均匀

Slow airflow and uniform temperature distribution



速度场

Velocity field

分区独立控制

Partition independent control

区域集中控制

Regional centralized control

单独室温控制

Individual room temperature control

区域湿度温度独立监控

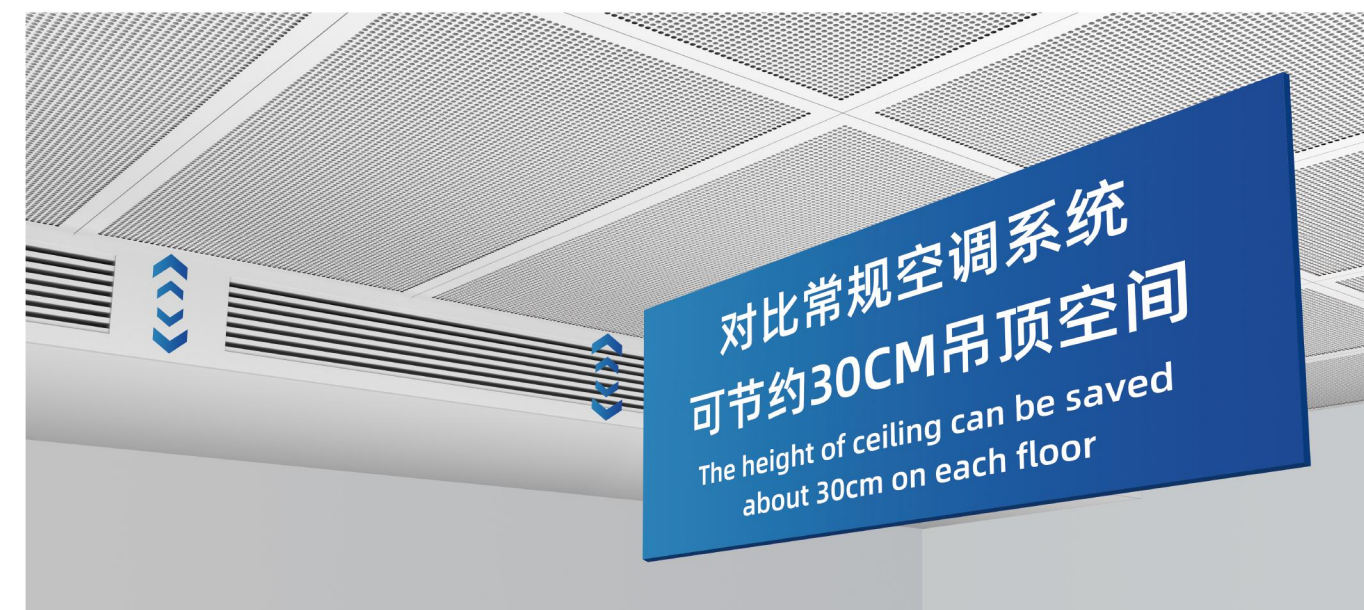
Independent monitoring of regional humidity and temperature

区域露点温度测量

Regional dew point temperature measurement

The value of radiant ceiling

冷暖辐射吊顶的价值



舒适性好

室内垂直温度梯度小、无吹风感、舒适性好

高效节能

采用高温冷源/低温热水,节能50%

智能集成

制冷制热,除湿净化,一套搞定

恒氧恒静

室外引入新风, 过滤净化洁净安全

宁静零污染

室内无运动部件, 无冷凝水,无污染源

Good comfort

Indoor vertical temperature gradient is small, no air drying, good comfort

High efficiency and energy saving

Using high temperature cold source / low temperature hot water, energy saving 50%

Intelligent integration

dehumidification, refrigeration, Dehumidification

Constant oxygen and static

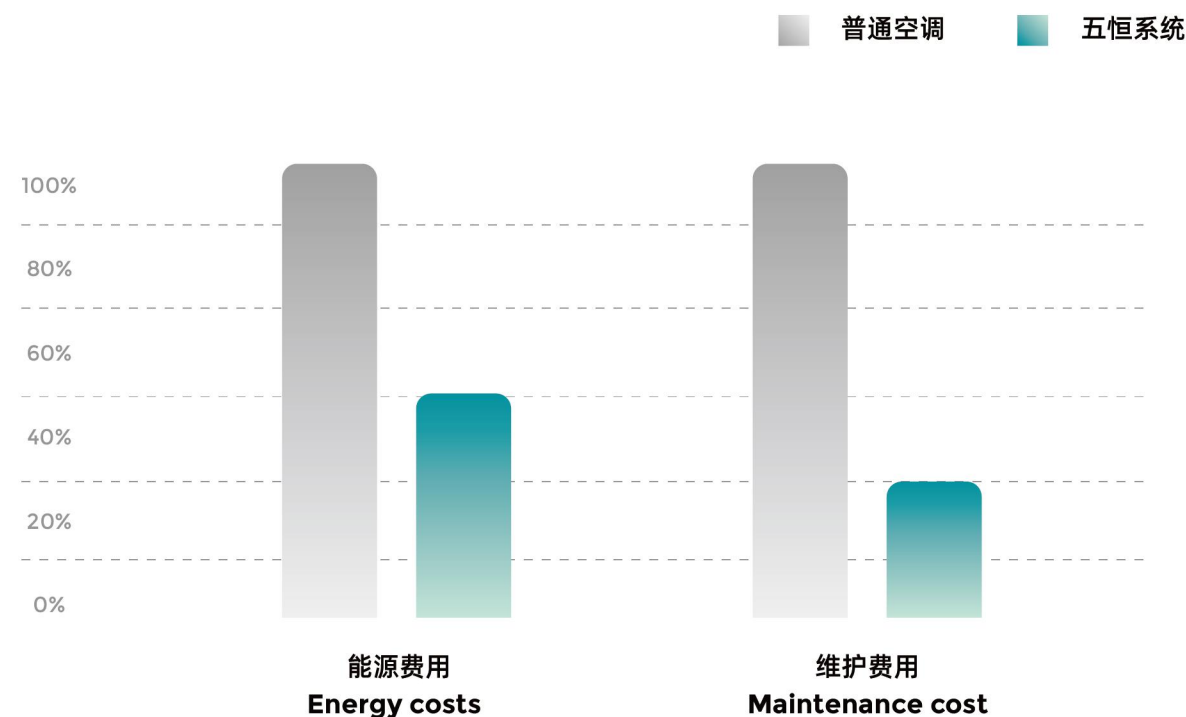
Outdoor introduction of fresh air, filtration purification, clean and safe

Quiet and pollution-free

Indoor five moving parts, no condensate, no pollution source

Efficient energy-saving efficiency

— 高效的节能效率



50%

采用高温冷源/低温热水,整个系统运行成本较传统空调系统节能50%。

Using high temperature cold source / low temperature hot water, the operation cost of the whole system is 50% less than that of the traditional air conditioning system.

70%

室内无运动部件,无需任何保养整个系统维护成本较传统空调系统节省70%。

There are no moving parts and no maintenance in the room. The maintenance cost of the whole system is 70% less than that of the traditional air conditioning system.

Flexible space Free design

— 灵活空间/自由设计

- 新老建筑全能掌控
- 节约吊顶空间30厘米以上
- 定制化的外观设计
- 融入整体的装饰风格





恒温 Temperature

室内温度均匀、稳定，冬季18~22℃、夏季24~28℃，水平无温差，顶地温差≤2℃。

The indoor temperature is uniform and stable, with a temperature range of 18-22 °C in winter and 24-28 °C in summer. There is no horizontal temperature difference, and the temperature difference between the top and ground is ≤ 2 °C.



恒湿 Humidity

全年湿度稳定在30%~70%人体舒服区间，不受黄梅天等季节因素影响，时刻舒爽。

The humidity is stable throughout the year at a comfortable range of 30% to 70% for the human body, unaffected by seasonal factors such as Huangmei Tian, and always comfortable.



恒氧 Oxygen

24小时新风，全屋空气整体置换达1次/时，95%欧标H13有效过滤，室内持久低CO₂、VOC。

24 hours of fresh air, with a total air replacement rate of 1 time per hour for the entire house, 95% European standard H13 effective filtration, and long-lasting low CO₂ and VOC indoors.



恒洁 Clean

全天保持空气洁净、采用自主研发过滤网，室内空气清新自然。

Keep the air clean all day, use self-developed filter screens, and the indoor air is fresh and natural.



恒净 Quiet

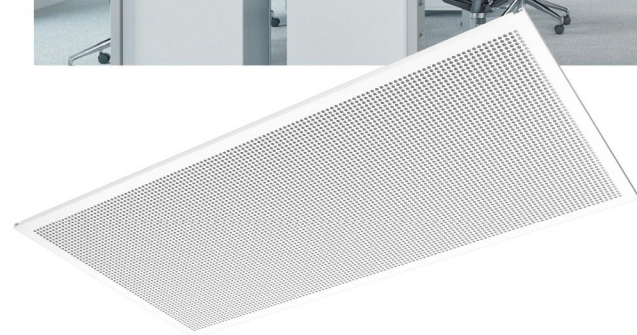
降低噪声，减少环境声音的出现，更加有助于孩子与老人的舒适度。

Reducing noise and reducing the appearance of environmental noise is more conducive to the comfort of children and the elderly.

LTM type A at the end of cold and warm radiation

— 冷暖辐射末端 **LTM A 型**

A



LTM A型 严格按照德国辐射冷暖吊顶技术标准及生产工艺，并通过工艺整合，令产品更符合国内各类建筑需求。

LTM A is in strict accordance with the technical standards and production process of radiant cooling and heating ceiling in Germany, and through process integration, the product can better meet the needs of various domestic buildings.

- 标准化模块拆卸、安装、维护更方便
- 静音吸噪、防水、防火、防腐蚀
- 快速制冷、制热
- 个性化设计,定制化服务
- 适用于各类建筑空间

Standardization module, Easy to maintain

Silent, waterproof, fireproof, anticorrosion

Fast cooling and heating

Personalized design, customized service

Suitable for all kinds of architectural space

LTM type B at the end of cold and warm radiation

— 冷暖辐射末端 **LTM B 型**

B



LTM B型 辐射吊顶末端产品。通过工艺整合,有效简化工艺成本,适用于各类公共空间。

LTM B radiant ceiling end products. Through process integration, the process cost can be effectively simplified, which is suitable for all kinds of public spaces.

- 整体结构简单
- 标准化、模块化产品
- 温度分布均匀
- 高性价比

The overall structure is simple

Uniform temperature compensation

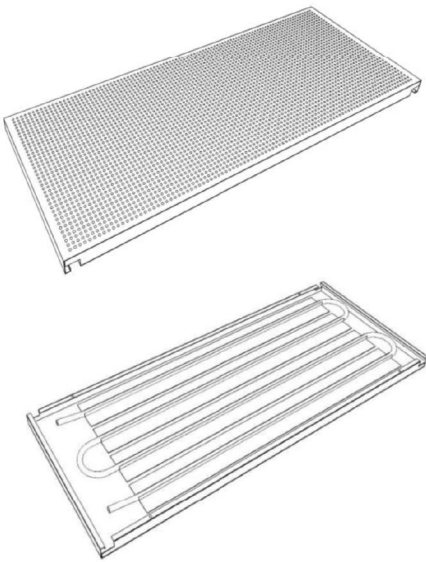
Standardized and modular products

High cost performance

Technical Parameter

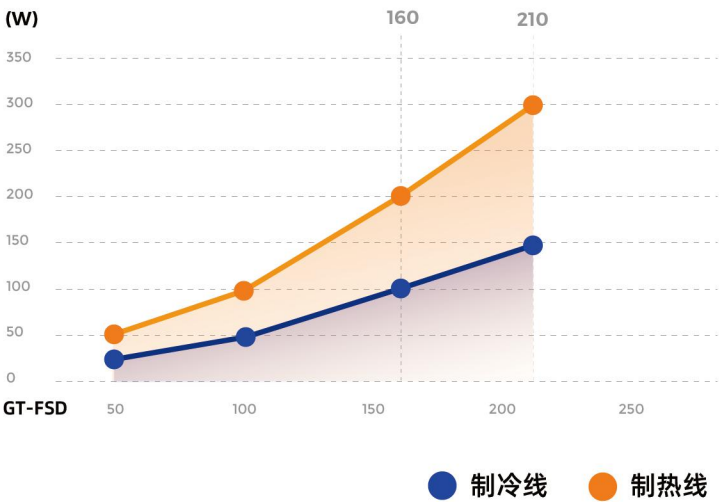
技术参数

末端模块结构图
Front view



单位面积有效制冷/制热量

Effective cooling/heating capacity per unit area



Performance parameter table

辐射模块性能参数表

Model 型号	Unit 单位	GT-FSD-050	GT-FSD-100	GT-FSD-160	GT-FSD-210
制冷量	W	54	108	162	216
制热量	W	80	160	240	320
水流量	L/min	0.26	0.52	0.78	1.04
水侧压降	kpa	10	20	30	40
长 (L)	mm	600	1200	1800	2400
长 (W)	mm	600	600	600	600
长 (H)	mm	50	50	50	50
重量	kg	6	10	15	20

注:

- 制冷工况:室外环境温度35/26℃,室内干球/湿球温度26/19℃;进出水温度18/21℃;
- 制热工况:室外环境温度7/6℃,室内干球/湿球温度20/-℃;进出水温度35/32℃;

Water supply mode of cold and warm radiant ceiling

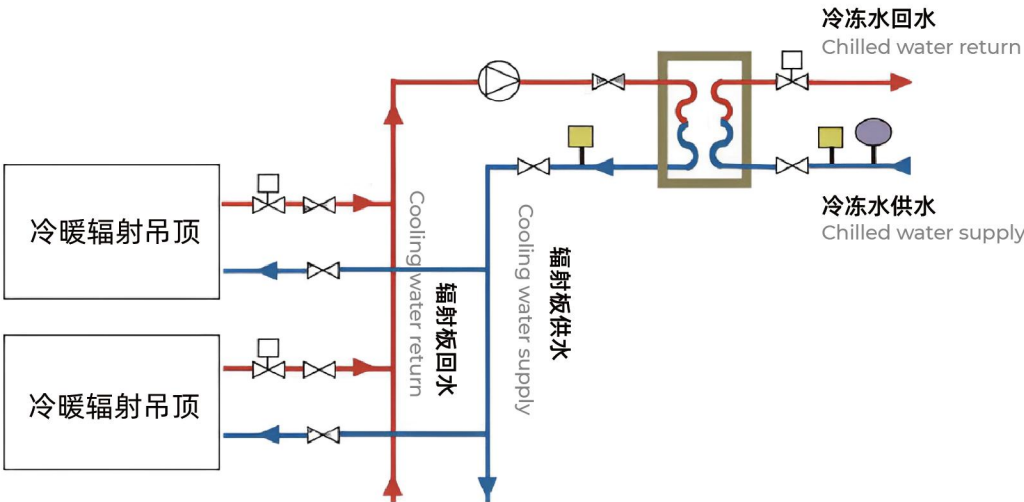
冷暖辐射吊顶的供水方式

室内环境控制方案

Indoor environment control scheme

辐射冷暖系统可使各类建筑更加节能。该系统工作时水温更接近于周围的环境温度,通过低放热设计可降低一次性能源的消耗。管道中有高温冷水或低温热水通过,保证了高效的室内温度条件,不仅减少了常规暖通系统的荷载,还可以从很大程度上减少初期投资、运营方面的成本。

Radiant cooling and heating system can make all kinds of buildings more energy-saving. When the system works, the water temperature is closer to the ambient temperature, and the disposable energy consumption can be reduced by low heat release design. High temperature cold water or low temperature hot water pass through the pipeline, which ensures efficient indoor temperature conditions, not only reduces the load of conventional HVAC system, but also greatly reduces the initial investment and operation costs.



注:

- 制冷工况:室外环境温度35/26℃,室内干球/湿球温度26/19℃;进出水温度18/21℃;
- 制热工况:室外环境温度7/6℃,室内干球/湿球温度20/-℃;进出水温度35/32℃;

Installation and pipeline connection

系统末端安装与管路连接



系统运行时使铜管内的水保持湍流状态,
整体水流量按照模块型号分别
控制在 **0.26-1.04L/min.**
系统统一回路对应连接的吊顶模块数量分别为
600*600 : 5-8块(串联),
600*1200 : 2-4块(串联)。

During the operation of the system, the water in the copper pipe is kept in turbulent state, and the overall water flow is controlled at 0.26-1.04 L/ min according to the module model.
The number of ceiling modules connected to the unified circuit of the system is
600*600:5-8 (pieces in series)
600*1200:2-4 (pieces in series)



冷暖辐射吊顶板块采用模块化结构,使用吊顶龙骨快速安装,板块管路之间采用快速接插口进行快速连接;整体易安装、易维护。

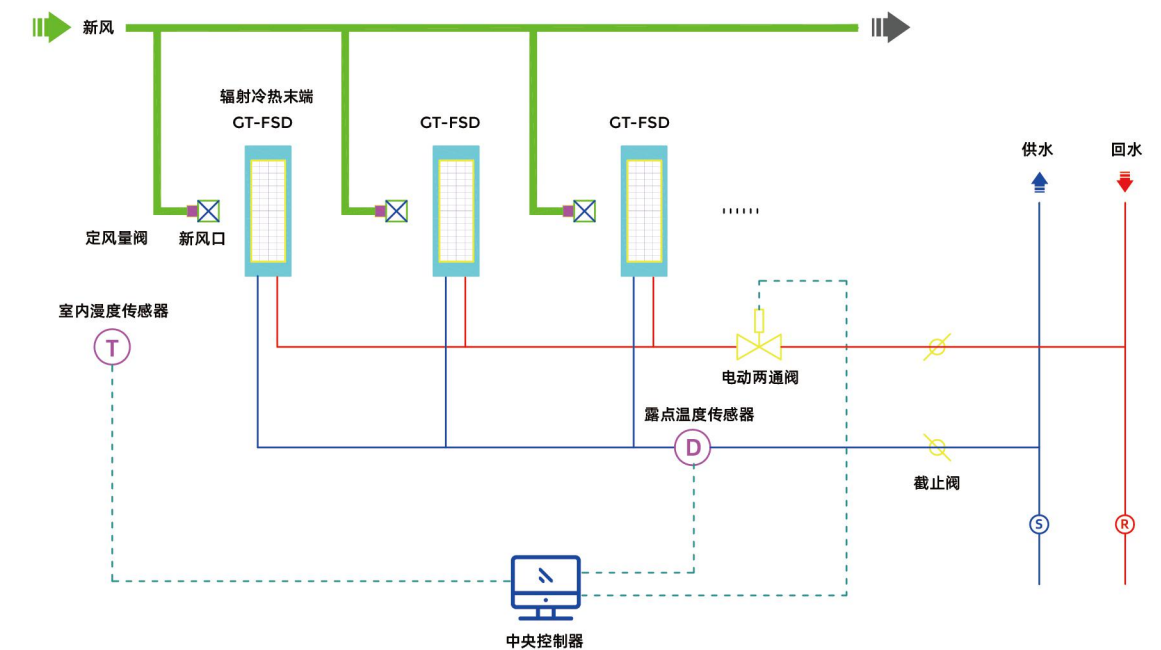
The module structure is adopted for the cold and warm radiation ceiling plate, and the ceiling keel is used for rapid installation, and the fast connection socket is used between the plate pipelines; the overall installation and maintenance are easy.

Intelligence control system

智能控制系统

全新风辐射空调RCDC系统

Fresh air radiation air conditioning RCDC system



- 可实现多种运行工况
- 可实时监控运行状态
- 可定制图形操作界面
- 可与楼宇自控系统联网

It can realize a variety of operating conditions

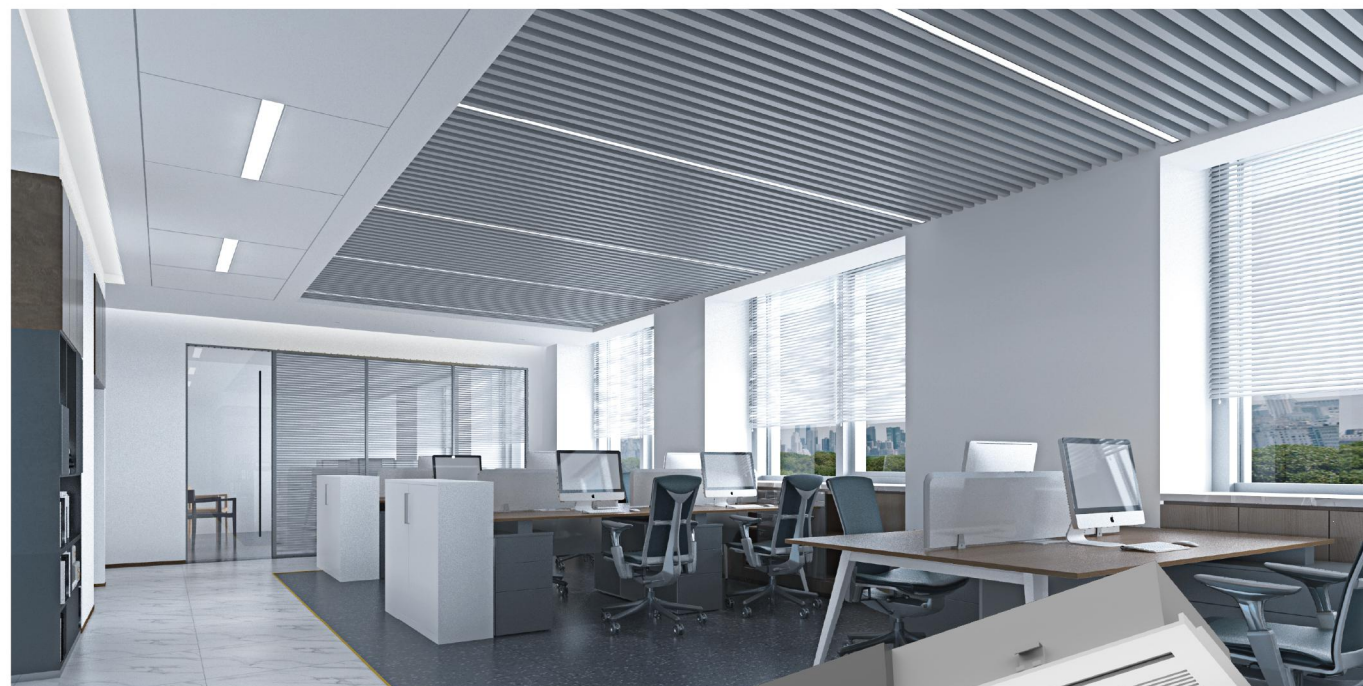
It can monitor the running status in real time

Customizable graphical operation interface

It can be connected with building automation system

Chilled beam

冷梁



配合一次新风制冷量更高，能更好的适应末端负荷需求
Combined with fresh air, the cooling capacity is higher, which can better adapt to the end load demand

集制冷、供热和送风一体的设备

Equipment that integrates refrigeration, heating, and air supply

适合按需通风、独立控制和灵活性要求高的场所

Suitable for places with high requirements for ventilation, independent control, and flexibility

显热负荷一般可达 120W/m² 空气 水

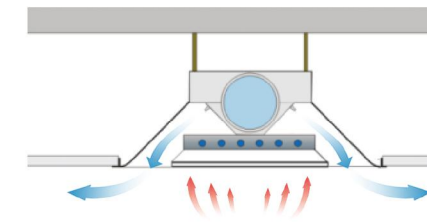
Sensible heat load is generally up to 120 W/m² (air water)

冷梁系统室内噪声在 35 dB 以下

The indoor noise of cold beam system is below 35 dB

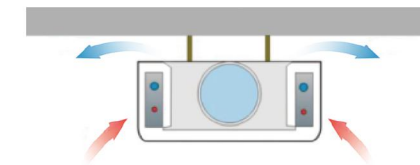
Chilled beam types

冷梁类型



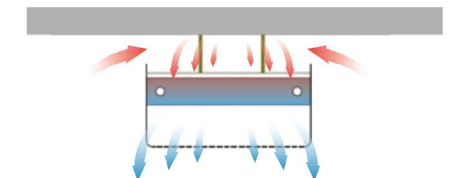
暗装主动式冷梁

Active chilled beam for
suspended installation



明装主动式冷梁

Active chilled beam for
exposed installation

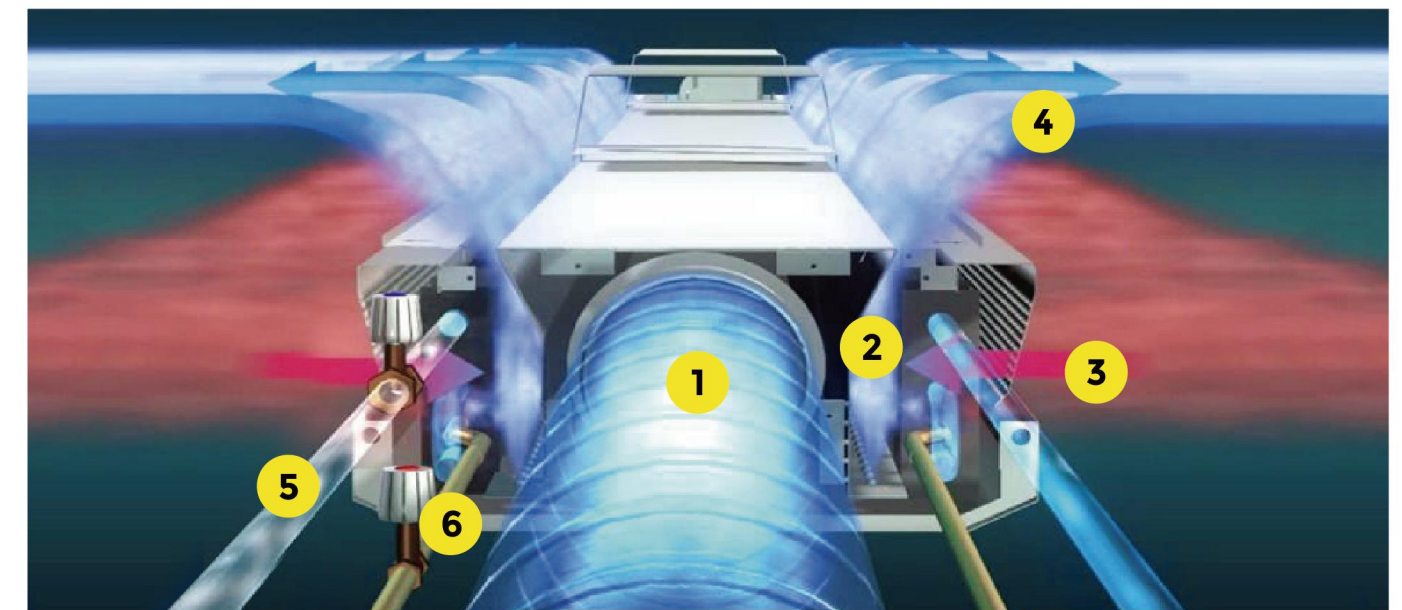


被动式冷梁

Passive chilled beam

Chilled beam types

冷梁工作原理



1 充分除湿的新风送进冷梁

Fully dehumidify the fresh air into the cold beam

2 新风穿过小孔

Fresh air passes through the hole

3 新风诱导室内空气进入盘管循环

Fresh air induces room air into coil circulation

4 回风与新风充分混合送入房间

Return air and fresh air are well mixed into the room

5 供水

The water supply

6 回水

backwater

Application area

应用领域/成功案例

启东高新区滨海医院辐射空调项目

Qidong High tech Zone Binhai Hospital
Radiation Air Conditioning Project



项目概况:

本工程为启东市高新区医院感染楼和病房楼七层施工修改设计。应医院要求该楼空调方案做调整。原多联机系统改为辐射板供冷/制热、独立新风除湿的温湿度独立调节空调末端系统。

This project is a modified design for the construction of the seventh floor of the infection building and ward building in the High tech Zone Hospital of Qidong City. Adjust the air conditioning plan of the building according to the hospital's request. The original multi line system has been changed to a radiation plate cooling/heating, independent fresh air dehumidification temperature and humidity independent adjustment air conditioning terminal system.

项目位置: 南通市滨海工业园南海路

Nanhai Road, Binhai Industrial Park,
Nantong city

项目面积: 感染楼面积642.45m²

Infection building area 642.45 m²

综合楼第七层病房总面积1675.16m²

The total area of the seventh floor ward in
the comprehensive building is 1675.16 m²

项目时间: 2020年9月~2022年11月

September 2020 to November 2022

辐射冷暖空调系统的应用

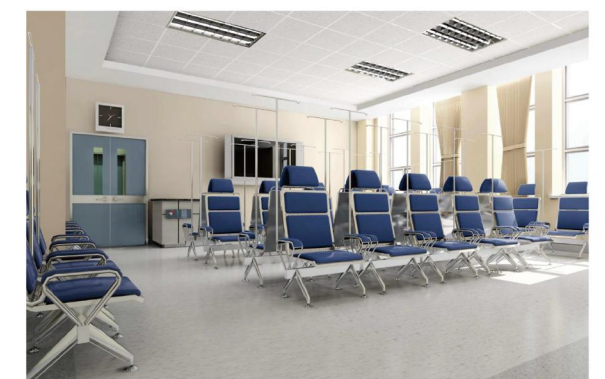
Application of Radiant Heating & Cooling Air Conditioning System

住院部作为医院的重点区域，近年对空气环境品质的需求日益提高。要做到兼顾病房内的环境品质和空调系统节能性，合理选择空调系统形式尤为重要。病房区域24h连续使用，适宜采用辐射冷暖空调系统，天棚辐射、以及双面地板辐射冷暖系统。若采用双面地板辐射蓄能型空调系统，还可以通过间歇运行策略有效节能。

As a key area of the hospital, the demand for air environment quality in the inpatient department has been increasing in recent years. To achieve a balance between the environmental quality of the ward and the energy-saving performance of the air conditioning system, it is particularly important to choose a reasonable form of air conditioning system. The ward area is continuously used for 24 hours, and it is suitable to use radiation cooling and heating air conditioning systems, ceiling radiation, and double-sided floor radiation cooling and heating systems. If a double-sided floor radiation energy storage air conditioning system is used, it can also be effectively energy-saving through intermittent operation strategy.



患者对热环境的反应与常人不同，住院部建筑在热环境的要求上比一般建筑更加严格，热环境相关指标与一般建筑不同，病房内冬季温度区间在20~23℃，夏季在24~26℃时，病房热环境较为理想。



置换新风系统方案

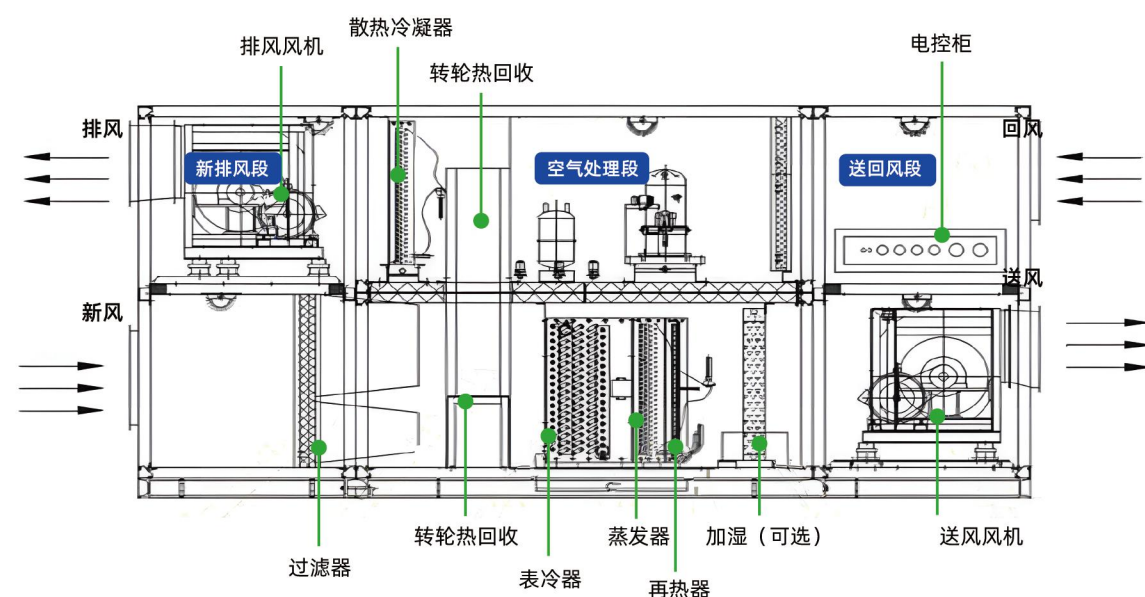
Replacement of fresh air system scheme

置换新风：置换新风系统采用屋顶、地下室的热回收新风处理机组处理经过加热/降温后的新鲜空气送入房间，正压送风、负压排风，送入房间的新风控制在一定的湿度范围内，从房间底部送出，从房间顶部排出，房间人体活动范围始终出在新鲜空气中，由于新风机组对室外空气进行处理，有效提高了室内空气质量。

夏季除湿是系统难点，除湿一般分溶液除湿和传统的冷冻除湿，本项目采用的是冷冻除湿（双冷源）。

Replacement fresh air: The replacement fresh air system uses heat recovery fresh air treatment units on the roof and basement to treat the heated/cooled fresh air and send it into the room. Positive pressure supply air and negative pressure exhaust air are used to control the fresh air sent into the room within a certain humidity range, which is sent out from the bottom of the room and discharged from the top of the room. The range of human activity in the room is always in the fresh air. As the fresh air unit processes outdoor air, Effectively improving indoor air quality. Summer dehumidification is a system difficulty, and dehumidification is generally divided into solution dehumidification and traditional freezing dehumidification. This project adopts freezing dehumidification (dual cold source).

风冷冷凝式双冷源新风（热泵）机组

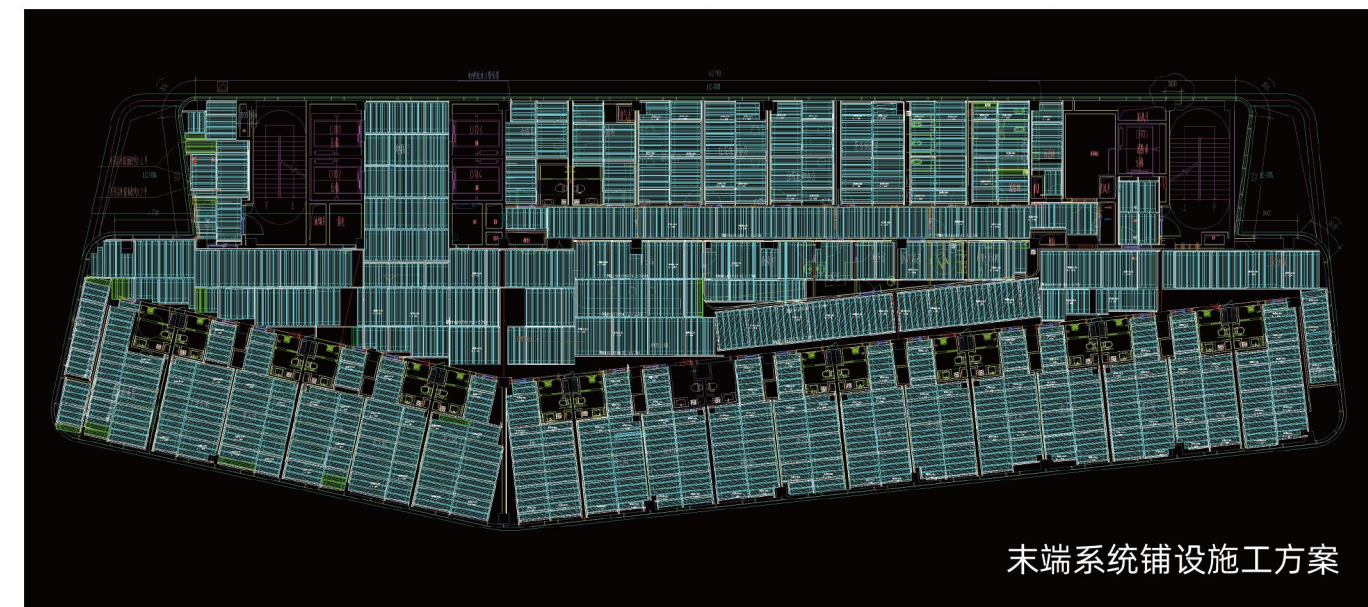


双冷源新风除湿机组采用“小风量大焓差”的设计理念，应用梯级除湿技术原理，采用多组串联式盘管结构，第一级除湿采用高温冷冻水，去除高温高湿区的热湿负荷；第二级除湿采用蒸汽压缩式制冷进行深度除湿，有效提高除湿效率，满足深度除湿要求。由于采用深度除湿技术，有效地保证了出风露点温度的要求。

The dual cold source fresh air dehumidification unit adopts the design concept of "small air volume and large enthalpy difference", applies the principle of cascade dehumidification technology, and adopts multiple series coil structures. The first stage dehumidification uses high-temperature chilled water to remove the heat and humidity load in high-temperature and high humidity areas; The second stage of dehumidification adopts steam compression refrigeration for deep dehumidification, effectively improving dehumidification efficiency and meeting the requirements of deep dehumidification. Due to the use of deep dehumidification technology, the required dew point temperature of the air outlet is effectively ensured.

辐射系统设备部分主体内容

Main content of radiation system equipment



末端系统铺设施工方案

新风辐射系统

末端部分

辐射冷专用冷热水主机：375kW	6台	辐射板：600mm*600mm	6874台
冷冻水泵：流量130m³/h 扬程45m	4台	辐射板：600mm*1200mm	2878台
		辐射板：600mm*1800mm	3460台
		辐射板：600mm*2400mm	6536台
		新风机：1000m³/h；冷量：20kW；热量：15kW	1台
		新风机：3000m³/h；冷量：60kW；热量：38kW	29台



辐射系统末端铺设效果图

负荷计算

序号	暖通设计区域	面积 (m²)	单位负荷 (W/m²)	总负荷 (kW)
负一层				
1	电梯厅	104	180	34.2kW
2	辅助空间	86		
一层				
1	公共空间（门厅、等候区及电梯厅）	1828	180	806.6kW
2	诊室	1730		
3	办公区	60		
4	辅助空间	863		
二层				
1	公共空间（等候区、电梯厅）	1231	180	653.6kW
2	诊室	1812		
3	办公区	198		
4	辅助空间	390		
三层				
1	公共空间（电梯厅、等候休息区）	505	180	443.3kW
2	会议室	195		
3	诊室	589		
4	办公区	689		
5	辅助空间	485		
四层				
1	公共空间（电梯厅、待检区）	810	180	310.3kW
2	餐厅	134		
3	诊室	276		
4	办公室	248		
5	辅助空间	256		
五层				
1	公共区域	432	180	321.3kW
2	病房	756		
3	诊室	50		
4	办公室	262		
5	辅助空间	285		
六层				
1	公共区域	432	180	321.3kW
2	病房	756		
3	诊室	50		
4	办公室	262		
5	辅助空间	285		
七层				
1	公共区域	432	180	321.3kW
2	病房	756		
3	诊室	50		
4	办公室	262		
5	辅助空间	285		

设计区域冷负荷按照180W/ m²估算，热负荷按照120W/ m²估算，总冷负荷约为3211.9kW,总热负荷为2141.3kW.考虑医院的同时使用效率为70%，故实际冷负荷实际选型冷量可按照2250kW,热量按照1500kW计算。



启东高新区滨海医院辐射空调项目末端采用辐射+置换新风技术，可为“新冠疫情”下医院探索一条暖通技术路线，提升滨海工业园区形象，有利于招商。
项目建成后不仅能够推动当地医疗产业进步，还将进一步增加当地优质医疗资源供给、均衡优质医疗资源布局，有利于进一步改善周边群众就医条件，满足人民群众日益增长的医疗健康需求。

The radiation+replacement fresh air technology is adopted at the end of the radiation air-conditioning project of Binhai Hospital in Qidong High tech Zone, which can explore a HVAC technology route for hospitals under the "COVID-19", improve the image of Binhai Industrial Park and facilitate investment attraction.
After the completion of the project, it will not only promote the progress of the local medical industry, but also further increase the supply of high-quality medical resources and balance the layout of high-quality medical resources, which is conducive to further improving the medical conditions of surrounding people and meeting the growing medical and health needs of the people.