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AIR CONDITIONING TERMINALS 空调末端系列 B5

Air conditioning unit for large space buildings

高大空间空调机组



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We knew the world before, the world knows us now.

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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.

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德州亚太集团是国内大型暖通空调、洁净技术系统集成供应商。

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、北京大兴国际机场、酒泉卫星发射中心、凤凰国际传媒中心、国家质检总局、北京小汤山医院、武汉火神山医院、武汉雷神山医院、中国人民解放军总医院、北京二十余个奥运场馆以及乌兹别克斯坦安格连橡胶厂、白俄罗斯维捷布斯克水电站等海外项目。

ISO9001、14001、45001、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，充分表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 conditioner and clean technology system in China.

Yatai has developed whole set of advanced central air conditioners and lots of wonderful projects based on long-term research and features of the others. Domestic projects include New CCTV, Beijing Daxing International Airport, Jiuquan Satellite Launch Center, Phoenix International Media Center, General Bureau of National Quality Inspection, Beijing Xiaotangshan hospital, Wuhan Huoshenshan hospital, Wuhan Leishenshan hospital, General Hospital of the People's Liberation Army and 20 Beijing Olympic Stadiums in China. Foreign projects include Angren Rubber Factory in Uzbekistan, Vytebsk Hydropower Station in Belarus, etc.

Yatai has certified by ISO9001, 14001, 45001, 3C, UL, CE and CRAA; its chillers have been listed into the government purchasing list as energy saving products and obtained dozens of national patents, national high-technology enterprise title and Chinese Famous Trademark, which shows the high management level and product qualities of Yatai Group.

The purification equipment is made according to the European standard by the joint venture, which is co-invested by Dezhou Yatai and Holland Apollo. All these products are sold to a dozen developed countries and regions. It shows Yatai Group has stepped out of China and its product quality is in line with the international standard.

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



CRAA产品认证
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ISO9001质量管理体系认证
Certified by ISO9001 quality system
ISO14001环境管理体系认证
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Honorable Qualification



AIR CONDITIONING
TERMINALS
空调末端系列

Air conditioning unit for large
space buildings
高大空间空调机组

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组合式空调机组
Combination air-handling units



吊顶式空调机组KD(D)系列
Computer-controlling fiberglass entwining pipes



KDS (X) 系列吊顶射流空调机组
KDS(X) Series of suspended ceiling jet type air handling unit



风机盘管机组
Fan-coils

Air conditioning unit for large space buildings

高大空间空调机组

AIR CONDITIONING
TERMINALS
空调末端系列

产品简介
Product introduction





产品简述 Product description

高大空间空调机组系列产品是由亚太集团有限公司针对高大空间特殊环境而成功研制的空调设备。产品广泛应用于工业厂房、仓库、飞机及机车维修中心、物流中心、大型体育馆、展览馆、汽车4S店、商超、超市等高大空间场所。

机组集成了暖通、流体力学，计算机、软件、无线通讯、变频、自控等诸多技术，还辅以互联网通讯技术来实现用户的远程监控功能。利用高效的气流组织来实现空气的调流布送，达到节能、舒适效果，系统地解决了高大空间采暖、制冷、通风等多种需求，适用于3-30米高的建筑场所，具有技术成熟，实施简单、控制灵活、高效节能优点。

Air conditioning unit for large space buildings are successfully developed by Dezhou Yatai Group for the special environment of tall and big space. Products are widely used in industrial plants, warehouses, aircraft and locomotive maintenance centers, logistics centers, large stadiums, exhibition halls, automobile 4S shops and supermarkets.

The unit adopts technologies such as heating and ventilation, fluid mechanics, computer, software, wireless communication, frequency conversion and automatic control. Internet communication technology is also adopted to enable users to monitor remotely. The use of efficient air distribution system achieves flow distribution and regulation and at the same time saves energy and let people feel comfortable. It systematically solves heating, refrigeration, ventilation and other needs for large space buildings. Advantages include mature technology, simple installation, flexible operation and high energy conservation.



组合式空调机组
Combination air-handling units



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KDS(X) Series of suspended ceiling jet type air handling unit



风机盘管机组
Fan-coils

产品特点

Features

- 1、循环空气、回收热能。
- 2、强制空气对流，空气分布均匀可采用无级变频方式控制、高效节能。
- 3、无线控制方式，控制便捷、可单机单控或群控。
- 4、安装调试简单，节省安装费用。

1. Air circulation and energy recovery.
2. Compulsory cross-ventilation; even air distribution, controlled by stepless frequency conversion, high efficiency.
3. Convenient wireless control method, control for single unit or for numerous units.
4. Easy installation and commissioning, save installation cost.

系统介绍

System introduction

高大空间空调吊装在屋顶或者立柱上，通过设备内的热交换器实现对空气的制冷制热，然后利用高效的空气布送装置将冷（热）空气由上而下均匀的分布到空间各处，使室内温度达到均衡，消除室内不良温度层。

采用吸风式轴流风机，有效回收上升到顶部空间热量，使通过屋顶的热量损失减少到最小限度，完美的解决了高大空间冬季采暖的热飘问题，真正达到节能效果。在保证工作区温度同时通过对风速和出风角度的无级调节，可实现工作区环境内无风感，真正满足高大空间舒适采暖需求。

The air conditioner for large space buildings is hoisted on the roof or column. Indoor air is cooled or heated by the heat exchanger within the equipment and then evenly distributed from top to bottom to all parts of the space. Indoor temperature is then even. Poor temperature layer is eliminated. The use of suction axial flow fan effectively recovers the heat rising to the top space and reduces the heat loss passing through the roof to the minimum. It is a perfect solution to the problem of large space heat drift during winter heating, truly achieving energy saving effect. While ensuring the temperature of the working area, stepless adjustment of wind speed and air outlet angle can let people feel no wind in the working area. Requirements for comfortable heating in tall space are truly met.

技术比较

Technological comparison

暖气片采暖

Heating by heating radiator

- 1、高大空间进深很大，采用暖气片采暖，空气自然对流，热空气上升。
- 2、暖气片能辐射到区域很小，范围不超过5米。热量上升到屋顶后散失掉，中间区域得不到有效温度提升。
- 3、暖气片采暖方式对供水温度要求很高。

1. Large space depth; radiator heating causes natural air convection, hot air rising upward.
2. Radiators can radiate to a small area no more than 5 meters. Heat rises to the roof and dissipates, and there is no effective temperature rise in the middle area.
3. Radiator heating requires higher water supply temperature.

暖风机采暖

Fan heater heating

- 1、靠近暖风机空间内风感强烈，温度高。
- 2、远离暖风机空间内温度低。
- 3、空间内各处风感和温度分布极不均匀，达不到舒适采暖需求。仅适用于空间较小场合，应用于高大空间场合内，中间区域同样得不到有效温度提升。

1. Close to the space of the heater, the air is strong and the temperature is high.
2. Temperature is low in the space away from the heater.
3. The distribution of wind and temperature in the space is very uneven, which can not meet the requirements for comfortable heating. It is only suitable for small space. If used in large space, the middle area cannot get effective temperature rise.

高大空间空调机组采暖

Heating of air conditioning unit for large space buildings

- 1、高大空间机组制热时将热空气强制快速下送，使工作区温度迅速提升。
- 2、高大空间空调机组在单台设备上即可实现供暖、制冷、新风等多种功能。达到一机多用，综合投资成本大大降低。
- 3、高大空间空调机组可根据现场环境中的各种工况和作息时间变化进行调整，实现定时开关机和风速、送风角度等工作状态的实时控制。

1. When heating, the hot air is forced to be sent down quickly, so that the temperature of the working area rapidly rises.
2. A single air conditioning unit for large space buildings can realize heating, refrigeration, fresh air and other functions. The multi-purpose machine reduces greatly comprehensive investment cost.
3. The air conditioning unit for large space buildings can be adjusted according to the various working conditions and different work and rest schedule in the field environment to realize the real-time control of the timing power-on / shutdown, wind speed, air supply angle and other working states.

GK-SN系列高大空间空调机组

GK-SN series air conditioning unit for large space buildings



型号说明

Model explanation

例: GK □ - SN

热水供暖
额定风量 $\times 10^3 \text{ m}^3/\text{h}$
高大空间

example: GK □ - SN

Hot water heating
Rated air volume $\times 10^3 \text{ m}^3/\text{h}$
Large space

GK-SN系列高大空间制热机组制热能力表

Heating capacity table of GK-SN series air conditioning unit for large space buildings

型号 Model	热媒温度℃ Heating medium temp.	回风温度											
		10℃				15℃				20℃			
		供热量 kW heating capacity	送风温度℃ Air supply temp.	水流量 m^3/h water flow	水阻力 kPa water resistance	供热量 kW heating capacity	送风温度℃ Air supply temp.	水流量 m^3/h water flow	水阻力 kPa water resistance	供热量 kW heating capacity	送风温度℃ Air supply temp.	水流量 m^3/h water flow	水阻力 kPa water resistance
GK7-SN	45/40	44	28	9	4.3	38	30	9	4.3	30	32	7	2.7
	50/40	46	28	5	1.5	40	30	5	1.5	35	33	5	1.5
	60/50	60	36	6	2	53	35	5	1.4	46	38	5	1.4
	70/60	76	40	7	2.5	68	43	7	2.5	60	44	6	1.9
	80/70	91	47	9	3.9	83	49	8	3.1	76	51	8	3.1
GK10-SN	45/40	66	28	12	5.9	55	30	10	4.3	45	32	9	3.5
	50/40	68	28	6	1.7	57	30	5	1.2	48	33	5	1.2
	60/50	88	34	7	2.2	80	37	7	2.2	70	40	7	2.2
	70/60	112	41	9	3.3	101	44	9	3.3	88	45	7	2.1
	80/70	133	48	11	4.5	122	50	10	3.9	111	52	9	3.2

GK-DN系列高大空间空调机组

GK-DN series air conditioning unit for large space buildings



型号说明

Model explanation

例：GK □ - DN
 □ — 电加热供暖
 □ — 额定风量 × 10³ m³/h
 DN — 高大空间

example: GK □ - DN
 □ — Electric heating
 □ — rated air volume × 10³ m³/h
 DN — large space

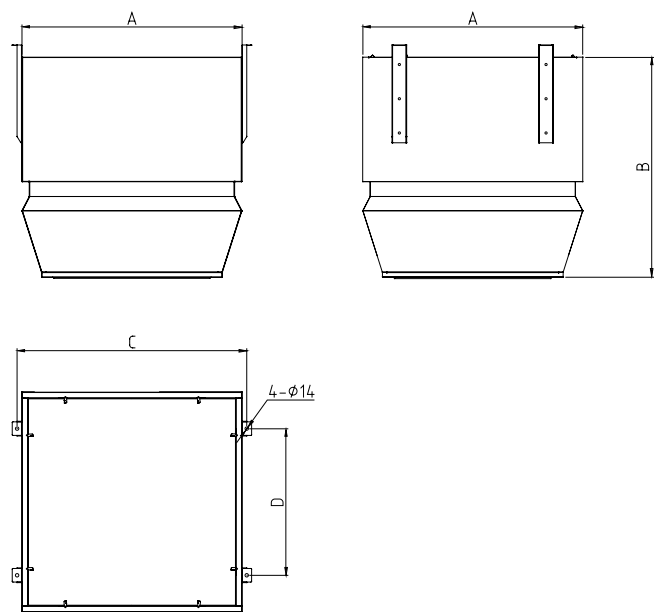
GK-DN系列高大空间制热机组制热能力表

Heating capacity table of GK-DN series heating air conditioning unit for large space buildings

型号 Model	电加热量 kW Electric heating capacity	回风温度					
		10℃		15℃		20℃	
		热输出功率 kW Heating output power	送风温度℃ air supply temp.	热输出功率 kW Heating output power	送风温度℃ air supply temp.	热输出功率 kW Heating output power	送风温度℃ air supply temp.
GK7-DN	10	10	14	9	19	9	24
	20	18	18	18	23	18	27
GK10-DN	30	28	18	27	22	27	28
	60	57	25	56	30	55	35

GK-DN系列高大空间制热机组外形图

Outline drawing of GK-DN series air conditioning unit for large space buildings



GK-DN系列高大空间制热机组外形尺寸

Physical sizes of GK-DN series heating air conditioning unit for large space buildings

型号 model		GK7-DN	GK10-DN
标准循环空气量 standard circulated air volume	m³/h	0-7000	0-10000
最大作用范围 maximum effective area	m²	550	800
电压 voltage	V	380 ± 5%	380 ± 5%
电机输入功率 motor input power	kW	0-0.86	0-1.9
适用安装高度 suitable installation height	m	4-10	4-17
旋流风口/球形喷口 twist flow outlet/spherical nozzle		φ 500	φ 630
控制方式 control method		变风量无级调节 variable air flow stepless regulation	
PTC加热器控制方式 control method of PTC heater		联动 coupling	
A	mm	900	1100
B	mm	900	1000
C	mm	940	1140
D	mm	600	800
重量 weight	kg	110	150

注：1、表中所列重量为机组本身净重，运行重量在此基础上加10%。
 2、表中功率、噪声仅供参考，实际制作时根据用户要求设计。
 3、更多非标机型及配置，请与厂家沟通，可定制非标机型。

Note: 1. The weight listed in the table is the net weight of the unit itself, and the operating weight shall be added by 10%.
 2. The power and noise in the table are for reference only, and they will be designed according to user's requirements during actual production.
 3. Non-standard models can be tailor-made. Please contact us.

GK-LN系列高大空间空调机组

GK-LN series air conditioning unit for large space buildings



型号说明

Model explanation

例: GK □ - LN

供冷、供暖
额定风量 $\times 10^3 \text{ m}^3/\text{h}$
高大空间

Example: GK □ - LN

Cooling, heating
Rated air volume $\times 10^3 \text{ m}^3/\text{h}$
Large space

GK-LN系列高大空间冷热机组制冷能力表

Cooling capacity table of GK-LN series cooling heating air conditioning unit for large space buildings

型号 Model	冷媒温度℃ heating medium temp.	回风温度(干球温度/湿球温度) Air return temp.(dry bulb temp./wet bulb temp.)											
		26℃/19℃				27℃/19.5℃				29℃/22℃			
		全热冷量 kW total heat cooling capacity	显热冷量 kW sensible cooling capacity	水流量 m^3/h water flow	水阻力 kPa water resistance	全热冷量 kW total heat cooling capacity	显热冷量 kW sensible cooling capacity	水流量 m^3/h water flow	水阻力 kPa water resistance	全热冷量 kW total heat cooling capacity	显热冷量 kW sensible cooling capacity	水流量 m^3/h water flow	水阻力 kPa water resistance
GK7-LN	5/11	37	24	6	38.6	38	25	6	38.6	47	26	6	38.6
	6/11	32	22	4.8	26.1	35	23	5.5	32.7	44	25	6	38.6
	7/12	31	21	5.5	32.7	33	23	5.5	32.7	42	24	6	38.6
	8/13	28	20	5.5	32.7	31	22	6	38.6	39	23	6	38.6
	10/15	20	19	3.8	16.5	23	20	4.3	21.3	35	21	6	38.6
GK10-LN	5/11	48	32	6	50.8	50	34	6	50.8	61	35	6	50.8
	6/11	45	31	6	50.8	47	33	6	50.8	57	34	6	50.8
	7/12	42	30	6	50.8	44	32	6	50.8	55	33	6	50.8
	8/13	38	29	6	50.8	40	31	6	50.8	52	32	6	50.8
	10/15	32	26	6	50.8	34	28	6	50.8	44	29	6	50.8



组合式空调机组
Combination air-handling units



吊式空调机组KD(D)系列
Computer-controlling fiberglass entwining pipes



KDS (X) 系列吊顶射流空调机组
KDS(X) Series of suspended ceiling jet type air handling unit



风机盘管机组
Fan-coils

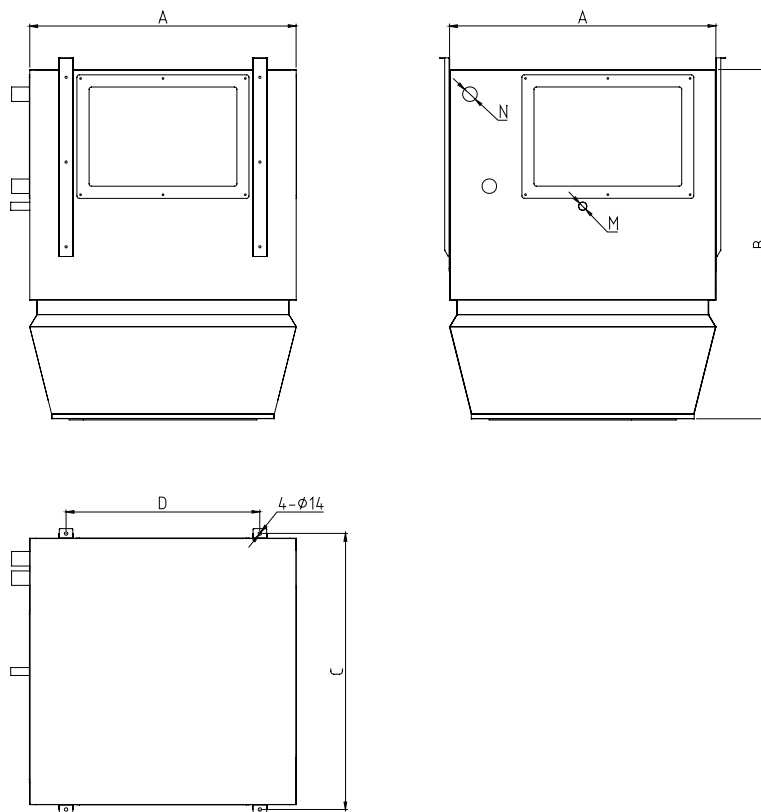
GK-LN系列高大空间冷热机组制热能力表

Heating capacity table of GK-LN series heating cooling air conditioning unit for large space buildings

型号 Model	热媒温度℃ heating medium temp.	回风温度 Air return temp.											
		10℃				15℃				20℃			
		供热量 kW heating capacity	送风温度℃ Air supply temp.	水流量 m³/h water flow	水阻力 kPa water resistance	供热量 kW heating capacity	送风温度℃ Air supply temp.	水流量 m³/h water flow	水阻力 kPa water resistance	供热量 kW heating capacity	送风温度℃ Air supply temp.	水流量 m³/h water flow	水阻力 kPa water resistance
GK7-LN	45/40	47	29	5	20.8	40	31	5	20.8	33	33	5	20.8
	50/40	52	31	4	14.6	45	33	4	14.6	36	34	3	9.1
	60/50	68	37	5	20.8	60	40	5	20.8	54	42	5	20.8
	70/60	78	42	4	14.6	72	44	4	14.6	65	47	4	13.6
	80/70	95	49	5	20.8	89	51	5	20.8	81	54	5	20.8
GK10-LN	45/40	66	28	6	43.6	57	31	6	43.6	46	33	6	43.6
	50/40	73	30	5	31.4	63	33	5	31.4	54	35	5	31.4
	60/50	92	36	5	31.4	82	38	5	31.4	73	41	5	31.4
	70/60	111	41	5	31.4	100	44	5	31.4	91	48	5	31.4
	80/70	129	47	5	31.4	119	49	5	31.4	110	52	5	31.4

GK-LN系列高大空间冷热机组外形图

Outline drawing of GK-LN series heating cooling air conditioning unit for large space buildings



GK-LN系列高大空间冷热机组外形尺寸

Physical sizes of GK-LN series cooling heating air conditioning unit for large space buildings

型号 Model		GK7-LN	GK10-LN
标准循环空气量 standard circulated air volume	m ³ /h	0-7000	0-10000
最大作用范围 (供热) maximum effective area(heating)	m ²	550	800
最大作用范围 (供冷) maximum effective area(cooling)	m ²	350	600
电压 voltage	V	380 ± 5%	380 ± 5%
机组输入功率 unit input power	kW	0-0.86	0-1.9
适用安装高度 suitable installation height	m	4-10	4-17
旋流风口/球形喷嘴 twist flow outlet/spherical nozzle		φ 500	φ 630
控制方式 control method		变风量无级调节 variable air volume stepless regulation	
A	mm	900	1100
B	mm	1240	1440
C	mm	940	1140
D	mm	600	800
N		DN40 (R1-1/2)	DN50 (R2)
M		DN25 (R1)	DN25 (R1)
重量 weight	kg	140	193

注：1、表中所列重量为机组本身净重，运行重量在此基础上加20%。

2、表中功率、噪声仅供参考，实际制作时根据用户要求设计。

3、更多非标机型及配置，可定制非标机型。

Note:1. The weight listed in the table is the net weight of the unit itself, and the operating weight shall be added by 20%.

2. The power and noise in the table are for reference only, and they will be designed according to user's requirements during actual production.

3. Non-standard models can be tailor-made.



组合式空调机组
Combination air-handling units



吊顶式空调机组KD(D)系列
Computer-controlling fiberglass enrinding pipes



KDS (X) 系列吊顶射流空调机组
KDS(X) Series of suspended ceiling jet type air handling unit



风机盘管机组
Fan-coils

DK-SN系列低矮空间空调机组

DK-SN series air conditioning unit for small space buildings

型号说明

Model explanation

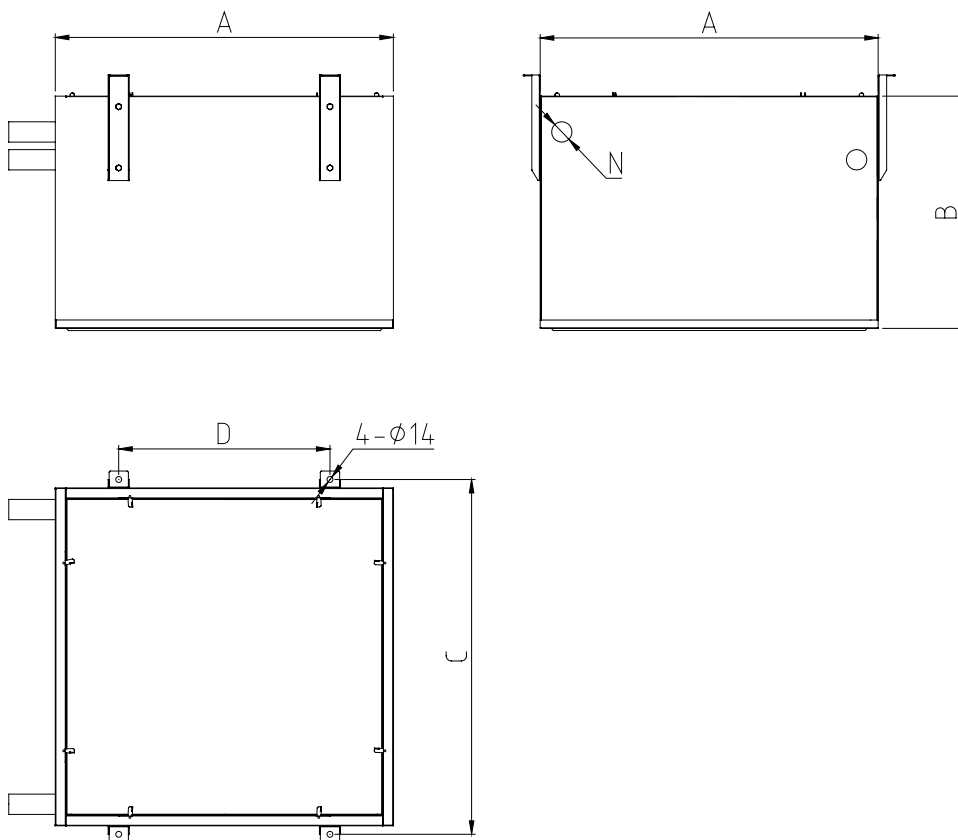
例: DK □ - SN
热水供暖
额定风量 $\times 10^3 \text{ m}^3/\text{h}$
低矮空间

Example: DK □ - SN
Hot water heating
Rated air volume $\times 10^3 \text{ m}^3/\text{h}$
Small space



DK-SN系列低矮空间冷热机组外形图

Outline drawing of DK-SN series heating cooling air conditioning unit for small space buildings





DK-SN系列低矮空间制热机组外形尺寸

Physical sizes of DK-SN series heating air conditioning unit for small space buildings

型号 model		DK5.5-SN
标准循环空气量 standard circulated air volume	m ³ /h	0-5500
最大作用范围 maximum effective area	m ²	350
电压 voltage	V	380 ± 5%
机组输入功率 unit input power	kW	0-0.65
适用安装高度 suitable installation height	m	3-6
风口形式 Air outlet type		送风百叶/旋流风口 Air supply shutter/twist flow outlet
控制方式 control method		变风量无级调节 variable air flow stepless regulation
A	mm	800
B	mm	550
C	mm	840
D	mm	500
N		DN40 (R1-1/2)
重量 weight	kg	80

注：1、表中所列重量为机组本身净重，运行重量在此基础上加20%。

2、表中功率、噪声仅供参考，实际制作时根据用户要求设计。

3、更多非标机型及配置，可定制非标机型。

Note:1. The weight listed in the table is the net weight of the unit itself, and the operating weight shall be added by 20%.

2. The power and noise in the table are for reference only, and they will be designed according to user's requirements during actual production.

3. Non-standard models can be tailor-made.

DK-SN系列低矮空间制热机组制热能力表

Heating capacity table of DK-SN series heating air conditioning unit for small space buildings

型号 Model	热媒温度℃ heating medium temp.	回风温度 Air return temp.											
		10℃				15℃				20℃			
		供热量 kW heating capacity	送风温度℃ Air supply temp.	水流量 m ³ /h water flow	水阻力 kPa water resistance	供热量 kW heating capacity	送风温度℃ Air supply temp.	水流量 m ³ /h water flow	水阻力 kPa water resistance	供热量 kW heating capacity	送风温度℃ Air supply temp.	水流量 m ³ /h water flow	水阻力 kPa water resistance
DK5.5-SN	45/40	33	26	6	2.5	27	28	5	1.8	21	30	4	1.2
	50/40	32	25	3	0.7	28	28	3	0.7	24	31	3	0.7
	60/50	44	31	4	1.15	39	34	4	1.2	35	37	4	1.2
	70/60	57	39	6	2.4	51	41	5	1.7	44	42	4	1.2
	80/70	68	45	7	2.9	62	47	6	2.3	57	50	6	2.3



DK-DN系列低矮空间空调机组

DK-DN series air conditioning unit for small space buildings

型号说明

Model explanation

例：DK □ - DN

电加热供暖
 额定风量 × 10³m³/h
 低矮空间

example：DK □ - DN

Electric heating
 rated air volume × 10³m³/h
 Small space

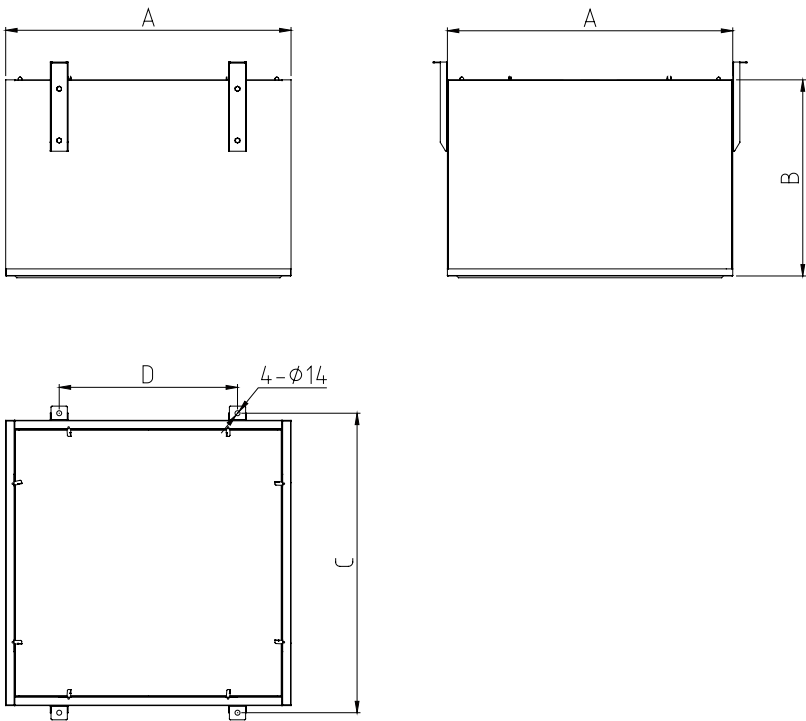
DK-DN系列低矮空间制热机组制热能力表

Heating capacity table of DK-DN series heating air conditioning unit for small space buildings

型号 Model	电加热量 kW Electric heating capacity	回风温度 Air return temp.					
		10℃		15℃		20℃	
		热输出功率 kW Heating output power	送风温度℃ air supply temp.	热输出功率 kW Heating output power	送风温度℃ air supply temp.	热输出功率 kW Heating output power	送风温度℃ air supply temp.
DK5.5-DN	10	10	15	9	19	9	24
	20	18	19	18	24	18	29

DK-DN系列低矮空间制热机组外形图

Outline drawing of DK-DN series heating air conditioning unit for small space buildings



DK-DN系列低矮空间制热机组外形尺寸

Physical sizes of DK-DN series heating air conditioning unit for small space building

型号 model		DK5.5-DN
标准循环空气量 standard circulated air volume	m ³ /h	0-5500
最大作用范围 maximum effective area	m ²	350
电压 voltage	V	380 ± 5%
机组输入功率 unit input power	kW	0-0.65
适用安装高度 suitable installation height	m	3-6
风口形式 Air outlet type		送风百叶/旋流风口 Air supply shutter/twist flow outlet
控制方式 control method		变风量无级调节 variable air flow stepless regulation
A	mm	800
B	mm	550
C	mm	840
D	mm	500
重量 weight	kg	75

注：1、表中所列重量为机组本身净重，运行重量在此基础上加10%。

2、表中功率、噪声仅供参考，实际制作时根据用户要求设计。

3、更多非标机型及配置，可定制非标机型。

Note: 1. The weight listed in the table is the net weight of the unit itself, and the operating weight shall be added by 10%.

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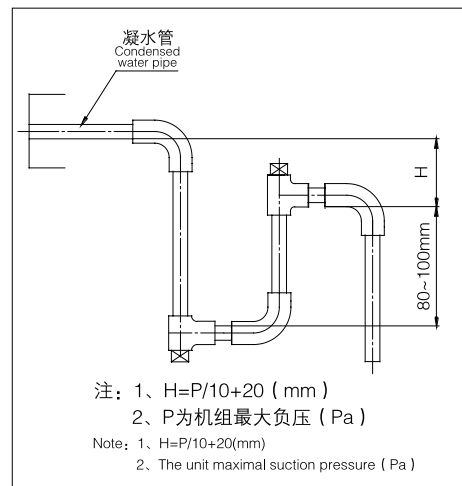
风机盘管机组
Fan-coils

机组的安装

Installation

- 1、机组带冷凝水盘的排放须设有水封，且水封要有足够的高度。
- 2、表冷器接水管为下进上出，在进水口处应加装截止阀、过滤器。
- 3、与机组连接的分管须柔性连接，与机组连接的水管应采用挠性软管，接管时扭力不应过大，以免损伤换热器。且管路须有单独支撑，重量不得由机组承受。
- 4、机组供电电源为 380V-3-50Hz。电源符合要求方可与电机相连，接通电源后，应检查风机转向是否正确，如反转，应停机将电源相序改变。
- 5、风机电机应有良好的接地，另须有过载、过热、缺相等其他可靠保护。

- 1.The discharge of unit with condensate water pan shall be provided with water seal, and the water seal shall have sufficient height.
- 2.Upper water pipe of the surface cooler is water outlet pipe and the lower water pipe is water inlet pipe. A stop valve and a filter should be installed at the water inlet pipe.
- 3.The branch pipe connected with the unit shall be flexibly connected, and the water pipe connected with the unit shall be flexible hose. The torque should not be too large to avoid damage to the heat exchanger. And the pipeline must have a separate support. Its weight shall not be borne by the unit.
- 4.Power supply for the unit is 380V-3-50Hz. Only the right power supply can be connected to the motor. After switching on the power supply, check whether the operation direction of the fan is correct. If it is incorrect, stop the machine to change the phase sequence of the power supply.
- 5.The fan motor should be well grounded, with overload, overheating, lack of phase, etc.



机组安装注意事项

Precautions for installation of air conditioning unit

- 1、为保证正确安装，务必检查托架承重的技术信息。
- 2、墙壁安装：若机组暖风机是安装在墙壁上，则安放位置必须离地 1.8 米。
- 3、机组和天花板、侧墙的距离不小于 0.2 米。
- 4、先在墙上固定托架，再行安置机组。
- 5、切记机组不能紧贴墙壁，以免阻碍气流畅通，且易引发火灾。

- 1.To ensure proper installation, check the technical information about the bearing capacity of the bracket.
- 2.Wall installation: if the air conditioning unit is installed on the wall, its position must be 1.8 meters high from the ground.
- 3.Distance between air conditioning unit and ceiling and distance between air conditioning unit and side walls should both not less than 0.2 meter.
- 4.The bracket is fixed on the wall first before the installation of the unit.
- 5.Remember that air conditioning unit should not be close to the wall to avoid fire caused by obstructed airflow.

机组的运行及维护

Operation and maintenance

- 1、机组的冷热媒应为洁净的软化水，其工作压力不超过 1.6MPa。
- 2、机组正常运行时风机轴承温升不应超过 40℃。
- 3、冬季严寒地区及全新风机组开机制热时，应先开加热器 5-10min，再启动送风机，防止大量冷空气在换热器内形成冰塞；
- 4、机组在冬季长期不用时，应将盘管内存水排空，并用压缩空气吹干，如存水不能吹干净，应在管内加防冻液。如机组在冬季短时间内暂不运行，应保证管内有热水循环，以防锈、防冻。除冬季外，换热器在其他季节停用时，也应将换热器充满水，以减少锈蚀。
- 5、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。
- 6、机组运行一个月后，应检查吊装紧固件和风机紧固螺栓有无松动现象。
- 7、机组运行二至三年后，应进行全面保养，清除换热器管内水垢，用压缩空气或水清洗换热器翅片。风机、电机等润滑部位应定期加注润滑油。

- 1.The heating and cooling medium of the unit should be clean softened water, and its working pressure should not exceed 1.6mpa.
- 2.The temperature rise of the fan bearing should not exceed 40℃ during normal operation.
- 3.When fresh air unit start to produce heat in cold areas in winter, the heater should be turned on for 5-10 minutes before starting the blower to prevent a lot of cold air from forming ice in the heat exchanger.
- 4.When the unit is not used for a long time in winter, water stored in the coil tube should be emptied and blown dry with compressed air. If the water stored cannot be totally blown away, antifreeze should be added in the tube. If the unit does not run temporarily in a short period of time in winter, it should be guaranteed that there is hot water circulation in the tube to prevent rust and freezing. In addition to winter, when the heat exchanger is out of use in other seasons, the heat exchanger should also be filled with water to reduce corrosion.
- 5.The filter should be cleaned regularly to ensure the use effect of the unit. If the air volume is found to be reduced, it is generally caused by too much dust in the filter.
- 6.After the unit runs for one month, check whether the hoisting fasteners and fastening bolts of the fan are loose or not.
- 7.After two to three years of operation, comprehensive maintenance of the unit should be carried out to remove the scale in the heat exchanger tube, and the heat exchanger fins should be cleaned with compressed air or water. Lubricating parts such as fans and motors should be regularly filled with lubricating oil.



BUILD REPUTATION ON PROJECTS

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实现销售网络持续、稳定的增长

If we strive to meet the demands of the clients

continue to produce more products with high quality

We will nourish and set up a steadfast client group

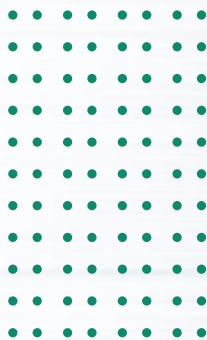
to realise the stable and steadfast expansion of the sales net

优良的品质和周到的服务，亚太集团取得了骄人的业绩。亚太洁净技术工程接连获得了北京小汤山医院、武汉火神山医院、武汉雷神山医院等近百家医院的青睐，以其洁净技术的杰出性能和净化实力，获得市场信任，树立用户口碑。

With excellent quality and considerate service, Yatai Group has made remarkable achievements. Its purification technology projects are successively favored by Xiaotangshan hospital in Beijing, Huoshenshan hospital and Leishenshan hospital in Wuhan. The outstanding performance of clean technology and purification strength have gained market trust for Yatai Group and established its reputation among users.



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