

CLEAN TECHNOLOGY
BENEFITTING THE ENVIRONMENT

King Du Pont

金多邦机械（江阴）有限公司
King DuPont Mechanical (Jiangyin) Co.,Ltd.
江阴市徐霞客镇峭岐工业园区
Jiangyin Xuxiake Town Qiaoqi Industrial Park
TEL: 0510-86570016
www.KingDuPont.com

King Du Pont

板式热交换机组
PLATE HEAT EXCHANGER UNIT



节能 · 安全 · 高效
Energy Saving • Safety • Efficiency

金多邦机械（江阴）有限公司
King DuPont Mechanical (Jiangyin) Co.,Ltd.

Enterprise introduction 企业简介

King DuPont公司自成立以来一直刻苦努力，发奋图强，现已成为全球板式换热器行业的领导者。

King DuPont公司通过与世界专业科研机构强强联手生产的AK、AR、HBR系列板式换热器及JDB-Q(S)-N(W)、JDB-QR-N(W)、JDB-S-L板式换热机组产品广泛应用于石油、钢铁、化工、电力、食品饮料、暖通空调、造船等行业，产品以优质高效的品质获得了客户广泛好评。

金多邦机械（江阴）有限公司现设备有12000吨板片油压机1台，5000吨板片油压机1台，2500吨板片油压机1台，在国内处于领先地位。

基于King DuPont集团强大的技术后盾，金多邦机械（江阴）有限公司将继续保持核心技术的领先地位，将最佳的产品回馈给客户。

感谢新老客户继续不断的支持和鼓励。

King DuPont company has been working hard since its establishment and has become the world leader in plate heat exchanger industry.

King DuPont co., ltd. has cooperated with the world's professional scientific research institutions to produce AK, AR, HBR series plate heat exchangers, which are widely used in petroleum, steel, chemical industry, electric power, food and beverage, hvac, ship-building and other industries. The products have been widely praised by customers for their high quality and high efficiency.

King DuPont machinery (jiangyin) co., LTD is now equipped with one 12,000-ton sheet oil press, one 5,000-ton sheet oil press and one 2,500-ton sheet oil press, which is in a leading position in China.

Based on the strong technical support of King DuPont group, jindoban machinery (jiangyin) co., ltd. will continue to lead in core technology and give customers the best products.

Thank you for your continuous support and encouragement.

● 丰富的经验 Rich experience

丰富的热网系统控制经验使我们可以提供更可靠、更实用的监控系统及热网整体控制方案，将监控系统与高校的机组在热网系统中完美结合，实现远程监控和换热站全自动无人值守。

金多邦从前期方案的选择和设计开始，帮助客户节省采购成本和降低运行费用。作为换热机组行业的领导者我们拥有超过80%的用户重复购买率，

Rich experience in heat network system control enables us to provide more reliable and practical monitoring system and overall control scheme of the heat network, which perfectly combines the monitoring system with the unit of the university in the heat network system to realize remote monitoring and automatic unattended heat exchange station.

Jindoban starts from the selection and design of preliminary schemes to help customers save procurement costs and reduce operating costs. As the leader of heat exchange unit industry, we have more than 80% repeat purchase rate.

● 卓越的服务 Excellent service

我们有完备的售后服务体系和具有高专业素质的售前/售后服务人员，能保证满足客户的技术支持需求。

我们提供良好的技术人员和工具，最佳的服务质量和态度，按照技术标准进行维修保养工作，使热交换机组处于良好状态，

我们承诺所提供的板式热交换机组完全满足客户系统技术要求，为客户提供的为最优化方案。

我们为保证设备的正常运行，我公司将在设备的安装、调试，运行及物业交付过程中为相关技术人员提供免费的技术培训。包括：设备的操作运行、保养维护等。

我们提供及时的备件供应，提供产品升级咨询和服务。

We have a complete after-sales service system and a high professional quality of pre-sales/after-sales service staff, can guarantee to meet customer technical support needs.

We provide good technical staff and tools, the best service quality and attitude according to the technology

Maintain the heat exchange unit in good condition.

We promise to provide the plate heat exchange unit to fully meet the technical requirements of the customer system, to provide customers with the optimal solution.

In order to ensure the normal operation of the equipment, our company will provide free technical training for relevant technical personnel in the process of equipment installation, debugging, operation and property delivery. Including: equipment operation, maintenance, etc.

We provide timely spare parts supply, product upgrade consultation and service.

节能型热交换机组 Energy saving heat exchange unit

主要特点 The main features

金多邦节能型汽融热交换机组不需要安装疏水阀，汽融装置的冷凝水通过凝水管道口排出，且过热蒸汽（300℃以下）可直接进入汽融装置，无需另外增加减温减压设备，减少投资，简化系统。由于装置内水温不高于100℃，而且上部位置的水温较低，由此排放的水温度较低，充分利用了蒸汽的潜热和显热资源，减少蒸汽用量，节约能源。最重要的是，由于蒸汽不与板式换热器直接接触，提高了板式换热器的使用寿命，从而提高了整个机组的使用寿命。适用于采暖供热、生活用水、地热采暖、电子电力、石油化工、食品、医药工业等。也可为客户量身定做更适合使用工况的换热机组。

KingDuPont energy-saving steam and heat exchange unit does not need to install steam trap, condensate from steam and heat melting device can be discharged through the outlet of condensate pipe, and superheated steam (below 300℃) can directly enter the steam and heat melting device, without adding additional temperature reduction and pressure reduction equipment, reducing investment and simplifying the system. As the water temperature in the device is not higher than 100℃, and the water temperature at the upper part is low, the water temperature discharged is low, making full use of latent heat and sensible heat resources of steam, reducing the amount of steam and saving energy. Most importantly, because the steam does not directly contact with the plate heat exchanger, it improves the service life of the plate heat exchanger and thus improves the service life of the whole unit. Suitable for heating and heating, domestic water, geothermal heating, electronic power, petrochemical, food, medicine and other industries. Can also be tailored for customers more suitable for the use of working conditions of the heat exchange unit.



应用领域 Application field

- 集中供热 The central heating
- 集中供冷 Centralized cooling
- 暖通空调 hvac
- 生活热水 Living hot water
- 水源热泵 Water source heat pump

板式热交换器机组在水源热泵中的作用是将冷却塔、地下水、水井或江河湖海中有污染的水源部分隔离在热泵之外，同时对其他水源部分进行热交换。

The role of the plate-type heat exchanger unit in the water source heat pump is to isolate the cooling tower, groundwater, Wells or polluted water sources in rivers, lakes and seas from the heat pump and conduct heat exchange for other water sources at the same time.

- 高层建筑压力阻隔 High – rise building pressure barrier

板式热交换器机组在高层建筑中可以有效地实现压力隔断，从而降低系统中阀门和热泵等设备的工作压力，达到节能和降低运行成本的目的。

The plate-type heat exchanger unit can effectively realize pressure partition in high-rise buildings, so as to reduce the working pressure of valves, heat pumps and other equipment in the system, so as to save energy and reduce the operation cost.

- 余热回收 Waste heat recovery

板式热交换机组可以将回收来的余热和废热进行循环利用。

The plate heat exchange unit can recycle the waste heat and waste heat.

- 工业领域应用 Industrial applications

板式热交换机组在工业领域也有着卓越的表现：化工、船舶、冶金制造、医药卫生、食品加工等。主要作用于废热回收、工艺及设备冷却、消毒杀菌等。

Plate heat exchange units also have outstanding performance in industrial fields: chemical industry, shipping, metallurgical manufacturing, medicine and health, food processing and so on. Mainly used in waste heat recovery, process and equipment cooling, disinfection and sterilization.

为什么选择金多邦热交换机组 Why KingDuPont heat exchange unit

- 先进的工艺和科学的管理

公司拥有先进的焊接及测试平台，严格执行国家相关标准，采用业内最先进的环氧树脂静电喷涂工艺，抗腐蚀能力强，汽车级的喷涂标准，使产品更美观。

公司采用先进的管理系统对生产过程进行精细化管理。质量问题可以追溯到每一批次的部件、每一个供应商、每一道工序、每一个工人，确保产品质量稳定可靠。

The company has advanced welding and testing platform, strict implementation of national standards, the use of the industry's most advanced epoxy resin electrostatic spraying process, corrosion resistance, automotive coating standards, make the products more beautiful.

The company USES the advanced management system to carry on the detailed management to the production process. Quality problems can be traced to every batch of parts, every supplier, every process, every worker, to ensure stable and reliable product quality.

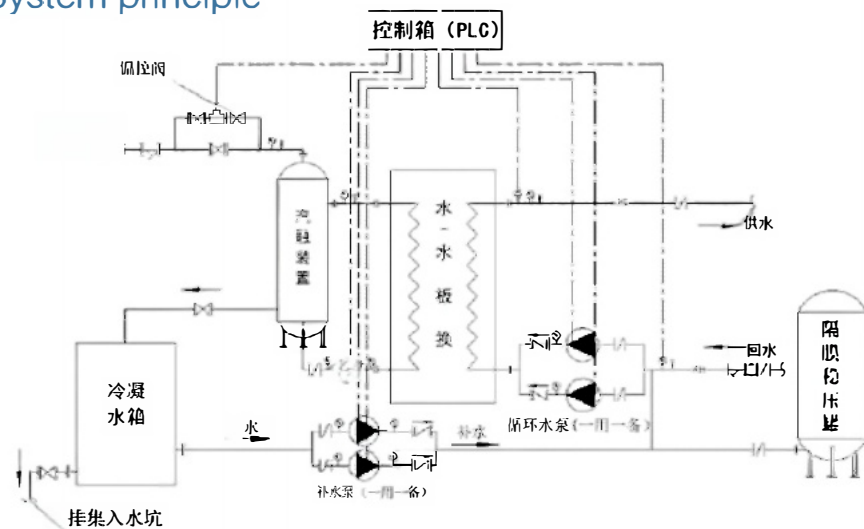
- 技术的研发及进步

多项节能的设计和专利产品在机组上的成功应用，使我们的产品运行更加节能、高效。2014年在我们申请的汽融热交换机组专利，在降低安全生产的同时还可以减少蒸汽耗量10%左右。

The successful application of a number of energy-saving designs and patented products on the unit makes our products run more energy efficient and efficient. In 2014, we applied for the patent of steam and heat exchange unit, which can reduce the steam consumption by about 10% while reducing the safety production.



系统原理 System principle



系统组成 System principle

由温控阀、汽融装置、水—水换热器、循环水泵、补水吧泵、隔膜稳压罐、冷凝水箱、控制箱及阀门、管路、电气系统组成。

It is composed of temperature control valve, steam melting device, water–water heat exchanger, circulating water pump, filling water bar pump, diaphragm pressure regulator tank, condensing water tank, control box, valve, pipeline and electrical system.

适用范围 Scope of application

采暖供热、生活用水、地暖采暖、电子电力、石油化工、食品、医药工业等。也为客户量身定做更适合使用工况的换热机组

Heating heating, domestic water, floor heating, electronic power, petrochemical, food, medicine and other industries. Also tailor–made for customers more suitable for the use of working conditions of the heat exchange unit

节能比较 Energy saving compare

以Q=600kw空调采暖机组为例，蒸汽0.4MPa，饱和蒸汽温度152℃，空调水温50℃–60℃。

采用常规汽水板换机组,利用蒸汽潜热部分，冷凝水排放温度高,造成浪费，

蒸汽耗量: $Q_{\text{汽}} = \frac{Q}{H_{\text{汽}}} = \frac{600}{2108} = 1024 \text{ Kg/h}$; ($H_{\text{汽}}$ 蒸发潜热)

如采用汽融转置，充分利用蒸汽的热量，冷凝水排放温度低，充分利用热值，

蒸汽耗量: $Q_{\text{汽}} = \frac{Q}{H_{\text{汽}} - c \times t} = \frac{600}{2749 - 4.18 \times 60} = 865 \text{ Kg/h}$; ($H_{\text{汽}}$ 蒸发潜热)

节约蒸汽量: $\Delta Q_{\text{汽}} = Q_{\text{汽}} - Q_{\text{汽}} = 1024 - 865 = 159 \text{ Kg/h}$;

考虑到其他修正因数0.7，汽融换热机组节能效率为: $\lambda = \frac{159}{1024} \times 100\% \times 0.7 \approx 10.8\%$ 。

汽融采暖机组选型参考表

Reference table for type selection of steam heating unit

机组型号 Unit model	换热量 Heat load (Kw)	蒸汽用量 Flow (Kg/h)	蒸汽管道 Steam pipe (DN)	凝结水管道 Condensate pipe (DN)	二次侧流量 Seconde side flow (M3/h)	二次侧管道 Seconde side pipe (DN)	机组外形尺寸 Dimension (mm)
JDB-500-N-QR	500	850	65/50	20/15	44	80	2800*1000*1700
JDB-1000-N-QR	1000	1700	100/80	32/25	88	125	3500*1400*1900
JDB-1500-N-QR	1500	2550	125/100	32/25	130	150	3700*1600*2100
JDB-2000-N-QR	2000	3380	150/125	40/32	104	150	4000*1800*2300
JDB-2500-N-QR	2500	4220	150/125	40/32	215	200	4500*2000*2400
JDB-3000-N-QR	3000	5065	150/125	50/40	258	200	4550*2250*2450
JDB-3500-N-QR	3500	5910	200/150	50/40	302	200	4800*2250*2450
JDB-4000-N-QR	4000	6755	200/150	65/50	345	250	5300*2400*2600
JDB-4500-N-QR	4500	7600	200/150	65/50	388	250	5500*2500*2700
JDB-5000-N-QR	5000	8455	200/150	65/50	432	250	5600*2700*2850
JDB-5500-N-QR	5500	9290	250/200	80/65	475	250	6200*2900*3100
JDB-6000-N-QR	6000	10130	250/200	80/65	440	250	定制 Customizes

汽融生活热水机组选型参考表

Reference Table For type selection of steam–melting domestic hot water unit

机组型号 Unit model	换热量 Heat load (Kw)	蒸汽用量 Flow (Kg/h)	蒸汽管道 Steam pipe (DN)	凝结水管道 Condensate pipe (DN)	二次侧流量 Seconde side flow (M3/h)	二次侧管道 Seconde side pipe (DN)	机组外形尺寸 Dimension (mm)
JDB-300-W-QR	300	500	50/40	15/10	5.2	50/32	2400*800*1500
JDB-600-W-QR	600	1010	65/50	25/20	10	65/40	2600*900*1600
JDB-900-W-QR	900	1520	80/65	25/20	16	65/40	3000*900*1700
JDB-1200-W-QR	1200	2020	100/80	32/25	21	80/50	3200*1100*1850
JDB-1500-W-QR	1500	2530	100/80	32/25	26	80/50	3200*1150*1850
JDB-1800-W-QR	1800	3030	125/100	40/32	31	100/65	3300*1300*2050
JDB-2100-W-QR	2100	3540	125/100	40/32	36	100/65	3500*1500*2150
JDB-2400-W-QR	2400	4050	150/125	40/32	42	100/65	3700*1600*2250
JDB-2700-W-QR	2700	4550	150/125	50/40	47	100/65	3700*1650*2250
JDB-3000-W-QR	3000	5060	150/125	50/40	52	125/80	3800*1800*2350
JDB-3300-W-QR	3300	5570	150/125	65/50	47	125/80	定制 Customizes

标准型热交换机组 Standard heat exchange unit

生活水换热机组 Domestic water heat exchange unit

金多邦生活热水机组是运用换热机组的成熟的温度控制技术，结合生活热水系统特性面设计的，分为即热式生活热水机组、半即热式生活热水机组和混合式生活热水机组即采暖与生活热水一体化机组。

KingDuPont domestic hot water units are designed by using the mature temperature control technology of heat exchange units and combining with the characteristics of domestic hot water system. They are divided into instant domestic hot water units, semi-instant domestic hot water units and mixed domestic hot water units, i.e. heating and domestic hot water units.



即热式生活热水机组 Instant domestic hot water unit

采用板式换热器，可供15-450套房间使用。

具有结构紧凑，占地小，易安装。

具有高精度温度控制，供水温度 $\pm 1^{\circ}\text{C}$ 。

Plate heat exchanger is used for 15-450 rooms.

With compact structure, small footprint, easy installation,

High precision temperature control, water supply temperature $\pm 1^{\circ}\text{C}$.



半即热式生活热水机组 Semi-instant domestic water heater

采用板式换热器，配置储水罐，储水罐分为开式与闭式。

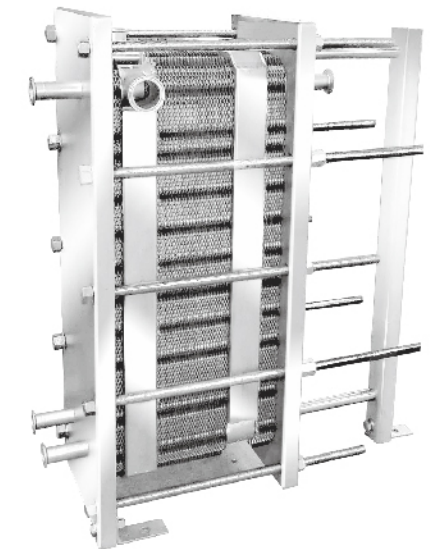
适用于锅炉功率较小工况。

适用于热水需用量峰值大的工况。

Plate heat exchanger and water storage tank are adopted. Water storage tank is divided into open type and closed type.

Suitable for boiler with small power,

It is suitable for the condition with large peak water consumption.



混合式生活热水机组即采暖与生活热水一体化式机组:

Mixed domestic hot water unit namely heating and domestic hot water integrated unit

一体化设计，具有优异的性能价格比。

采暖与生活热水单独控制。

适用于高档写字楼、别墅等。

Integrated design, with excellent performance-to-price ratio,

Separate control of heating and domestic hot water,

Suitable for high-grade office buildings, villas, etc.



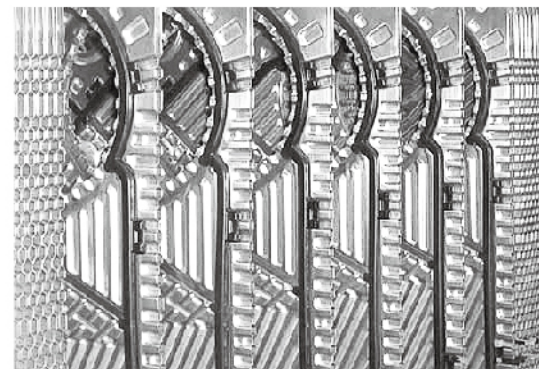
采暖换热机组 Heating and heat exchange unit

金多邦采暖换热机组是集成了板式换热器、循环泵、补水泵、温度计、压力表、各种传感器、管路和阀门及工控于一体的成套区域供热控制设备，并加装了补水系统、定压系统、水处理系统、变频流量控制系统、热量计及网络通讯控制系统，以期实现不同档次的控制功能配置需求；

同时结合金多邦公司领先的技术以及丰富的经验和站在行业的前沿的高度选配机组的配件，如水泵，阀门及工控等工作，统筹兼顾，为用户量身定做更适合用户工况的性能优良的成套换热机组。

Golden state more heating heat exchange unit is integrated with plate heat exchanger, circulating pump, water pump, thermometer, pressure gauges, all kinds of sensors, piping and valves and industrial control in the integration of complete sets of district heating control equipment, and equipped with the filling water system, constant pressure system, water treatment system, frequency conversion flow control system, heat meter, and network communication control system, in order to realize the control function of the different class configuration requirements;

At the same time, combined with the leading technology and rich experience of jinduobang company and the high selection of spare parts of the unit, such as water pump, valve and industrial control, etc., we will give overall consideration to the whole set of heat exchange units with better performance, which are more suitable for users' working conditions.



工艺机组 Process unit

在一些工艺热交换过程中，常常需要保证温度、压力和流量等参量的控制精度，金多邦可按照用户的实际要求设计、制造用于实验室等工艺过程的热交换成套机组。

In the process of heat exchange of some processes, it is often necessary to ensure the control accuracy of parameters such as temperature, pressure and flow rate.



标准型采暖换热机组选型参考表 Reference Table For type selection of standard type heating and heat exchange unit									
机组型号 Unit model	换热量 Heat load (KW)	热源: 4barg饱和蒸汽 energy:4barg saturated steam			热源: 95/70℃高温水 energy:Hot water		二次侧: 循环水50/60℃ Seconde side:circulating water		外形尺寸 Dimension 长*宽*高 Length*width*height (mm)
		流量Flow (KG/H)	蒸汽管道 Steam pipe (DN)	凝结水管道 Condensate pipe (DN)	流量Flow (T/H)	接管规格 Pipe dimension (DN)	流量Flow (T/H)	接管规格 Pipe dimension (DN)	
JDB-300	300	506	50	25	10.3	65	25.8	65	1500*1100*1400
JDB-600	600	1023	65	32	20.6	80	51.6	100	1500*1200*1400
JDB-900	900	1520	80	40	31	80	77.6	125	1700*1400*1400
JDB-1200	1200	2026	100	40	41.3	100	103	125	1700*1400*1400
JDB-1500	1500	2533	100	50	51.6	100	129	125	1700*1400*1400
JDB-1800	1800	3039	125	65	61.9	125	155.3	150	1900*1600*1700
JDB-2100	2100	3546	125	65	72.2	125	181.1	200	1900*1600*1700
JDB-2400	2400	4052	125	65	82.5	125	207	200	2200*1700*1800
JDB-2700	2700	4559	150	80	92.8	125	233	200	2200*1700*1800
JDB-3000	3000	5066	150	80	103	150	258.8	200	2200*1700*1800
JDB-4500	4500	7598	200	80	155	150	388	250	2800*2000*1900
JDB-6000	6000	10130	200	100	206	200	516	250	3300*2400*2000
JDB-7500	7500	12660	250	125	258	200	647	300	3500*2500*2100
JDB-9000	9000	15200	250	125	309	250	776	300	3500*2500*2100
JDB-12000	12000	20260	300	150	412.7	250	1035	350	定制 Customizes

标准型生活热水换热机组选型参考表 Reference Table For selection of standard domestic hot water heat exchanger unit									
机组型号 Unit model	换热量 Heat load (KW)	热源: 4barg饱和蒸汽 energy:4barg saturated steam			热源: 95/70℃高温水 energy:Hot water		二次侧: 循环水5/55℃ Seconde side:circulating water		外形尺寸 Dimension 长*宽*高 Length*width*height
		流量Flow (KG/H)	蒸汽管道 Steam pipe	凝结水管道 Condensate pipe	流量Flow (T/H)	接管规格 Pipe dimension	流量Flow (T/H)	接管规格 Pipe dimension	
JDB-300	300	506	50	25	10.3	65	5.2	40/25	1200*1000*1200
JDB-600	600	1023	65	32	20.6	80	10.3	50/32	1300*1100*1350
JDB-900	900	1520	80	40	31	80	15.5	65/40	1500*1200*1400
JDB-1200	1200	2026	100	40	41.3	100	20.7	80/50	1500*1200*1400
JDB-1500	1500	2533	100	50	51.6	100	25.8	80/50	1500*1200*1400
JDB-1800	1800	3039	125	65	61.9	125	30.9	80/50	1500*1200*1400
JDB-2100	2100	3546	125	65	72.2	125	36.1	100/65	1700*1400*1600
JDB-2400	2400	4052	125	65	82.5	125	41.3	100/65	1700*1400*1600
JDB-2700	2700	4559	150	80	92.8	125	46.5	100/65	1700*1400*1600
JDB-3000	3000	5066	150	80	103	150	51.6	125/80	2000*1700*1900
JDB-4000	4000	6754	200	100	137.6	150	68.8	125/80	2200*1700*2000
JDB-5000	5000	8443	200	100	172	200	86	125/80	2200*1700*2000
JDB-6000	6000	10130	200	100	206	200	103.2	150/100	2600*2000*2200
JDB-9000	9000	15200	250	125	309	250	155	200/125	定制 Customizes

热交换机组的应用领域 Applications of heat exchange units

暖通空调

区域供热、生活热水、冰蓄冷、游泳池恒温、热泵装置、热水回收装置、加热水预热、地热、蒸汽换热等。

典型业绩：
中信泰富特钢科技大楼、张家港玖隆物流园、
常熟梅园宾馆、江阴市市政府、江阴国际会展中心、



石油化工

酸碱盐溶液的冷却，工艺介质的加热、冷却、循环水冷却，油冷却，电解液冷却，电镀业冷却，除油液加热，磷化液冷却等。

典型业绩：
中国石油天然气股份有限公司大庆石化分公司、
南京大汇新材料有限公司、江苏中鼎化学有限公司



电力工业

开式、闭式循环水冷却、传动油冷却、透平油冷却、润滑油冷却、活塞和涡轮机及发动机冷却液冷却、柴油发电站热回收、废汽热回收等。

典型业绩：
洛阳忠诚电力集团有限公司、国电哈密电厂、



汽融机组部分业绩

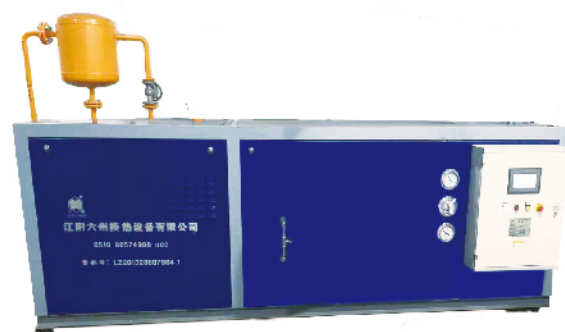
Steam and financing
unit part of the performance



江阴兴澄特种钢铁有限公司



江阴二中汽融机组



江苏沙钢集团有限公司



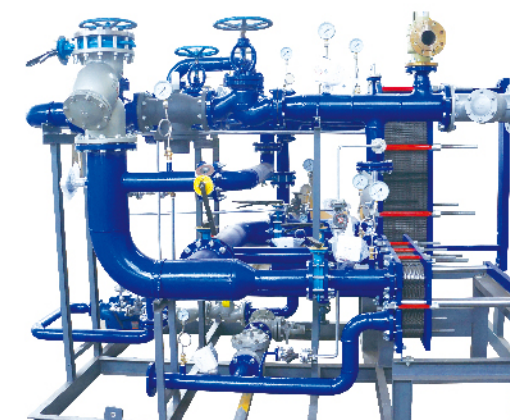
市政府会议中心



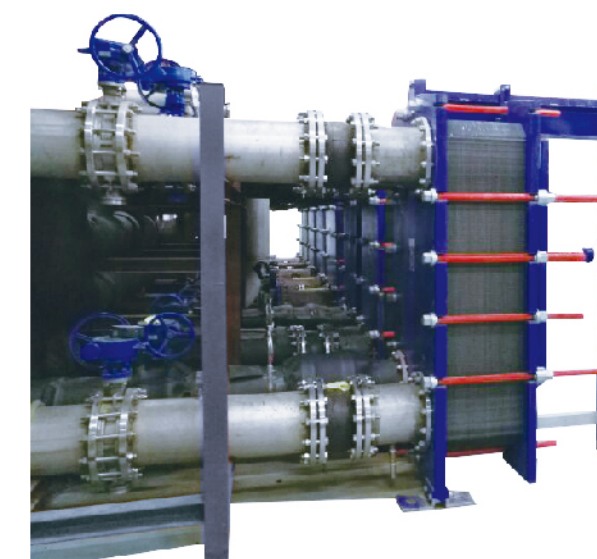
苏州瑞克机组



海澜商务楼汽融热水机组

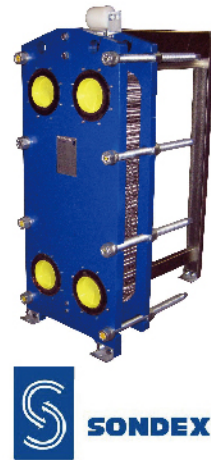


三房巷金陵大酒店



徐州拓正茂源太阳能

合作品牌 Cooperation brand



金多邦经验丰富的工程技术人员可根据如下数据条件
为客户量身定制热交换机组

换热机组选型参数表			
联系人: *		要求回复时间:	
公司名称: *		项目名称:	
联系电话: *		传真:	E-mail:
换热机组参数要求			
换热机组类型*	☐ 暖气片采暖 ☐ 地暖 ☐ 空调 ☐ 生活用水 ☐ 工艺水 ☐ 其它		
建筑面积		设计压力*: ☐ 1.0mpa ☐ 1.6mpa ☐ 其它	
总换热量*		换热器台数*	
		单台换热量*	
一次侧介质*	☐ 蒸汽 ☐ 水 ☐ 其它	一次侧压力*	
一次侧进出口温度*		一次侧流量*	
二次侧进出口温度*		二次侧流量*	
循环(回水)泵*	☐ 进口 ☐ 国产 ☐ 其它	水泵扬程*	
	台数 用 备	水泵流量*	
补水泵* ☐ 需要 ☐ 不需要	☐ 进口 ☐ 国产 ☐ 其它	水泵扬程*	
	台数 用 备	水泵流量*	
机组外形限制条件	☐ 无 ☐ 有: 长 mm 宽 mm 高 mm		
自动控温	☐ 需要 ☐ 不需要	循环泵变频	☐ 需要 ☐ 不需要
定压系统	☐ 定压罐 ☐ 变频定压 ☐ 任选		
控制要求	☐ 手动控制 ☐ 现场自动控制 ☐ 远程控制 ☐ 其它		
材质要求	管材: ☐ 普通钢 ☐ 不锈钢 ☐ PPR 阀门: ☐ 普通 ☐ 不锈钢		
表单填写说明			
1. 带* 项为必填项目。			
2. 请您认真填写本表单, 您提供的信息越详细, 我们为您提供的方案越经济合理。			
3. 如有任何疑问, 可致电本公司技术部(0510-86574998-801)垂询。			