

King Du Pont[®]

金多邦成套机械设备(江苏)有限公司

KDP MACHINERY JiangSu Co.,Ltd.



King Du Pont[®]

金多邦成套机械设备(江苏)有限公司
KDP MACHINERY JiangSu Co.,Ltd.
江阴市徐霞客镇峭岐中山路198号
198 Qiaoqi Zhongshan Road , Xuxiake Town , Jiangyin
0510-86570016
WWW . King DuPont . com
E-mail : lz002@jylzhr.com





致辞:

KDP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。

KDP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。

金多邦成套机械设备（江苏）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KDP集团强大的技术后援，金多邦成套机械设备（江苏）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。

Oration:

KDP Company has been working hard since its inception and has become a global leader in the plate heat exchanger industry.

KDP Company's AK, AR, HBR series of plate heat exchangers, which are jointly produced by professional research institutes around the world, are widely used in petroleum, steel, chemical, electric power, food and beverage, HVAC, ship building and other industries. Efficient quality has been well received by customers.

KDP Machinery (JiangSu) Co.,Ltd. has one set 12,000 ton plate hydraulic press, one set 5,000 ton plate hydraulic press and one set 2,500 ton plate hydraulic press, which is in the leading position in China.

Based on the strong technical support of KDP Group, KDP Machinery (JiangSu) Co.,Ltd. will continue to maintain its leading position in core technology and return the best products to customers.

Thanks to the new and old customers for their continued support and encouragement.



生产设备 EQUIPMENT



板式冷凝器

PLATE CONDENSER

金多邦ACN板式冷凝器是为真空冷凝而特制的板型。蒸汽的进口口径大，而冷凝液出口口径小。冷却水接口位置设置在板片的中部区域，接口口径为中型尺寸。生产采用激光半焊接生产工艺，即由两个配对板片焊接成板片组，冷凝蒸汽在焊接通道内冷凝，冷却水在垫片通道内流通。此种板型设计获得了最佳的冷凝效果。同时，每个板片蒸汽侧为大流通截面，冷却水为小通道流通截面，保证了蒸汽端保持一个非常小的压力降，实现低压气体的冷凝。而小截面的水侧流道，保证了冷却水的湍流，使得热对流效率达到最大，结垢程度减小。

主要应用于化工、石油、轻工食品、制药、机械、采暖供热、船舶、冶金、矿山、动力等行业。

The KDBACN plate condenser is a special plate type for vacuum condensation. The inlet diameter of the steam is large, while the outlet diameter of the condensate is small. The cooling water interface is located in the middle area of the plate, and the interface diameter is medium size. The production adopts the laser semi-welding production process, that is, two paired plates are welded into a plate group, the condensed steam is condensed in the welding channel, and the cooling water circulates in the gasket channel. This plate design achieves the best condensation results. At the same time, the steam side of each plate is a large flow section, and the cooling water is a small channel flow section, which ensures that the steam end maintains a very small pressure drop and realizes the condensation of low-pressure gas. The small cross-sectional water-side runner ensures the turbulence of the cooling water, so that the thermal convection efficiency is maximized and the degree of fouling is reduced.

Mainly used in chemical, petroleum, light industry food, pharmaceutical, machinery, heating and heating, shipbuilding, metallurgy, mining, power and other industries.

板式冷凝器的显著优点:

一，成本低。与传统的管壳式相比，金多邦ACN板式冷凝器的传热效率高，相同工况条件需要的冷却面积大大减少。有效降低成本，尤其在钛材，哈氏合金，SMO等特种材料的使用工艺上，优势更为明显。而紧凑的结构设计，节约了安装空间，也减少了运输和安装成本。

二，结垢少。独特的板片波纹结构设计，使流体在换热通道内产生高强度的湍流，比其他形式的换热器，结垢更小，维护周期延长，减少维护成本。

三，容易清洗。ACN板式冷凝器板片可采用机械和化学方法清洗，可拆卸的结构，使得清洗的质量和效率更高效。

四，易于扩容。通常，ACN板式蒸发器的框架会预留30%的扩容空间，满足客户日后的生产需求。

Advantages:

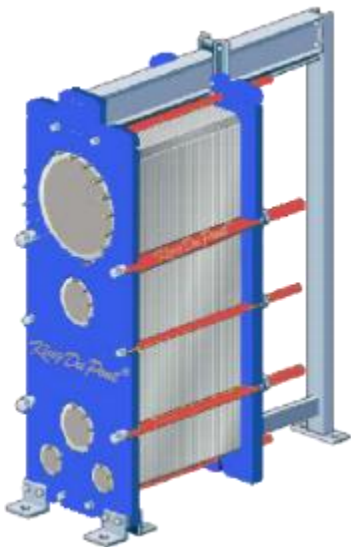
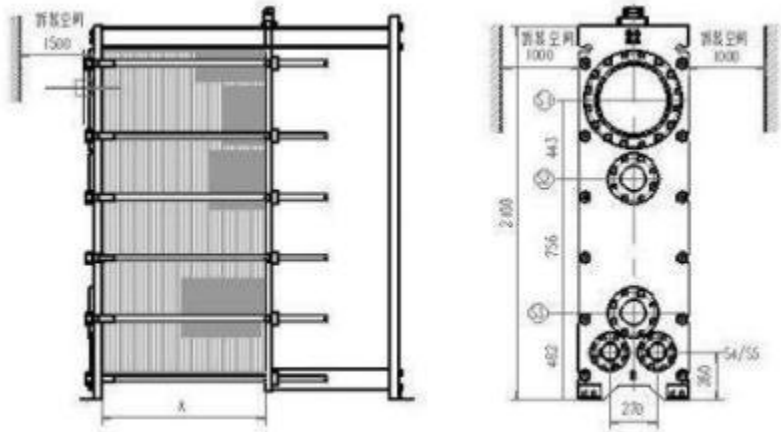
1, the cost is low. Compared with the traditional shell and tube type, the heat transfer efficiency of the KDBACN plate condenser is high, and the cooling area required for the same working conditions is greatly reduced. Effectively reduce costs, especially in the use of titanium, Hastelloy, SMO and other special materials, the advantages are more obvious. The compact design saves installation space and reduces transportation and installation costs.

2, less fouling. The unique plate ripple structure design enables the fluid to produce high-intensity turbulence in the heat exchange channel, which is smaller than other forms of heat exchanger, with less fouling, extended maintenance cycles, and reduced maintenance costs.

3, easy to clean. ACN plate condenser plates can be cleaned mechanically and chemically, and the detachable structure makes the quality and efficiency of cleaning more efficient.

4, easy to expand. Typically, the frame of the ACN plate evaporator will be reserved for 30% expansion space to meet the customer's future production needs.

板式冷凝器
PLATE CONDENSER



板式冷凝器 PLATE CONDENSER					
单板面积 Veneer area (m²)	0. 25	0. 35	0. 45	0. 7	1. 1
波纹型式 Corrugated type	人字型-胶条式 Herringbone — Strip type		矩形-半焊接 Rectangular — semi-welded		
板间距 Plate spacing (mm)	4. 6	4. 6	7. 6	7. 6	7. 6
当量直径 Equivalent diameter (mm)	8	8	14	14	14
单流道截面积 Single-runner cross-sectional area (m²)	热侧 Hot side	0. 0013	0. 0023	0. 003	0. 0048
	冷侧 Cold side	0. 0013	0. 0023	0. 0012	0. 0018
角孔中心距 Angle hole center spacing (mm)	719	699	1421	1677	1918
	225	363	756	800	899
角孔直径 Angle hole diameter (mm)	100	195	372	585	795
	100	195	140	260	320
介质流向 Media flow direction	单边流 One-sided flow				
外形尺寸 Dimensions (mm)	875*375	961*621	1843*500	2250*752	2608*950
最高设计压力 Maximum design pressure	1. 6 Mpa				
最高设计温度 Maximum design temperature	180 °C				
最大组装面积 Maximum assembly area	50	80	150	250	400
接管直径 Nozzle diameter	DN100	DN200	DN400	DN600	DN800
	DN65	DN100	DN150	DN250	DN300

其他配件

OTHER ACCESSORIES

蒸汽喷射器

STEAM INJECTOR



原理/Principle

蒸汽喷射器使用蒸汽来加热水或其他流体。工作时，蒸汽的喷射器将液体从环形孔吸入，混合，再将加热后的热水 喷入水箱中。喷射器引起的循环确保了充分的混合，避免了温度分层差异。在要求更高的流量时，可以平行安装两个 或多个喷射器。

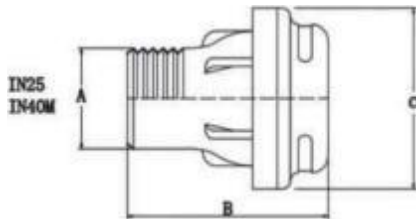
The steam injector using steam to heat water or other fluid. When it works, steam injector suction fluid from the annular hole, mixing, and then the heated water is sprayed into the tank. Causing the injector loop ensures sufficient mixing to avoid the difference in temperature stratification. In the higher flow

主要特点/Feature

- 全不锈钢材质
All stainless steel material
- 锅炉给水加热和除氧的理想应用
Ideal for applications in boiler feedwater heating and oxygen
- 水和其他流体的有效的蒸汽加热
Efficient steam heated water and other fluids
- 加热、混合和循环-无运动部件
Heating, mixing and circulation no moving parts
- 紧凑的设计-噪声和振动最小化
Compact design - minimize noise and vibration

型号/Model	A	B	C
IN25	1"	84	71
IN40M	1 1/2"	115	88

压力温度限制
Pressure and temperature limitations
本体设计等级 PN25
Body design level PN25
最小工作压力 0.5bar g
Minimum operating pressure 0.5bar g
最大饱和蒸汽条件 17bar g@207° C
The maximum saturated steam conditions 17bar g @ 207 ° C
最高加热温度(开式水箱) 90° C
The maximum heating temperature (open tank) 90 ° C



流量-选择蒸汽喷射器

蒸汽喷射器依据蒸汽流量来选择。下表中的数据基于一个开式水箱，深度3m。控制阀的选择也会影响蒸汽流量。

Flow Rate – Select Steam Injector

Choose steam injector according the steam flow rate. The following data in the table is based on an open tank, the depth of 3m. Control valve selection will also affect the steam flow.

型号/Model	IN25	IN40M
系统压力/ Saturated Steam Flow kg/h System Pressure bar g		
0.5	75	222
1	135	400
2	175	580
3	280	805
4	350	970
5	410	1125
6	500	1295
7	580	1445
8	640	1620
9	700	1820
10	765	1950
11	830	2250
12	900	2370
13	975	2595
14	1045	2710
15	1095	2815
16	1170	3065
17	1225	3200