



FAVKODA

沸克板式换热器

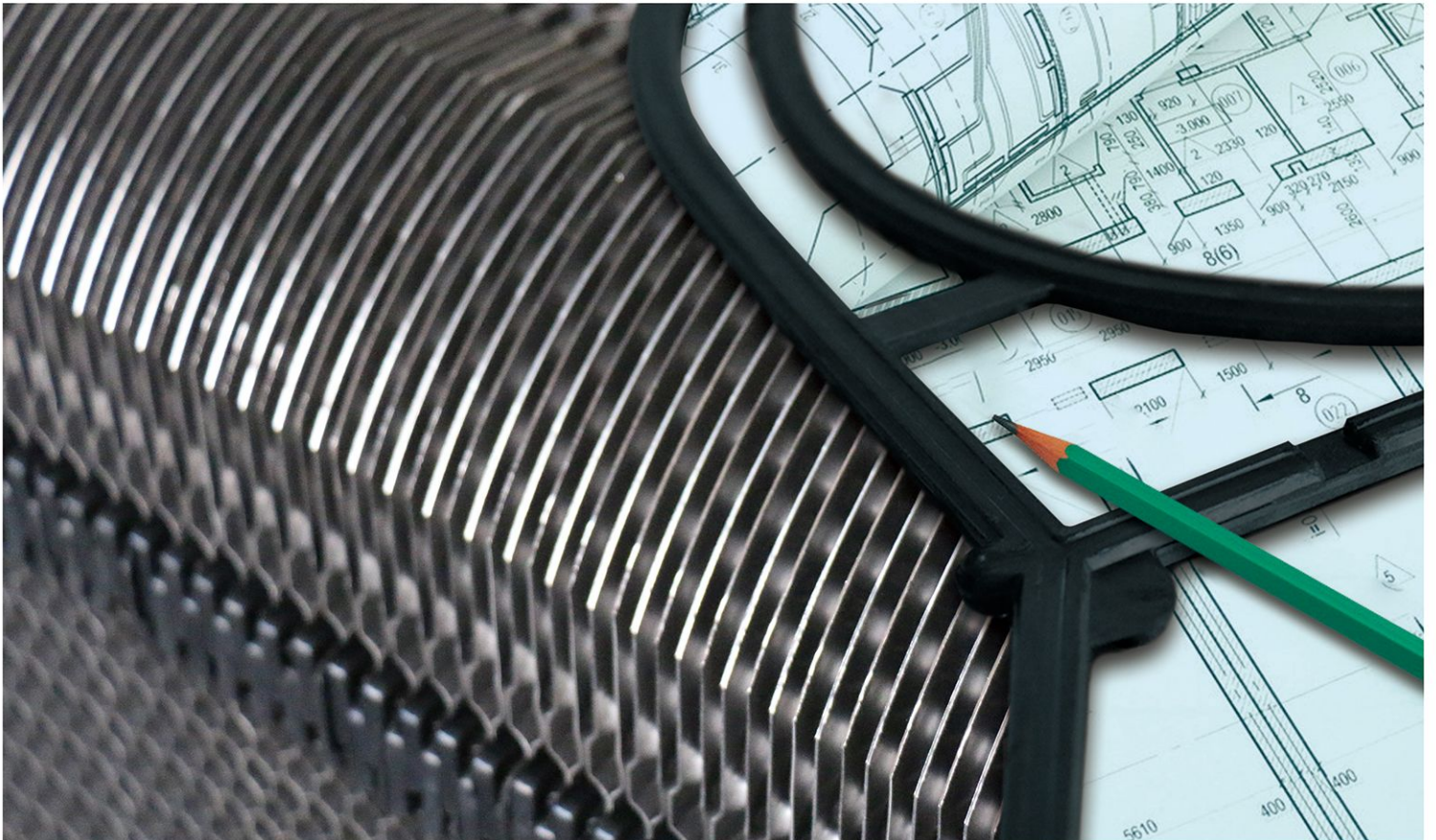
FAVKODA

沸克板式换热器

最安全的板式换热器

THE SAFETY

OF PLATE HEAT EXCHANGER



COMPANY BRIEF

企业简介

德孚换热 位于神京门户、九达天衢的山东省德州市，这里信息通畅、物流运输集中、交通四通八达、快捷方便，德孚产品可以在第一时间及时发往全国各地。

换热器是一个庞大的家族，德孚换热为了提高产品品质、供货时效以及产品在各个领域的适用性；更为了节约用户与社会资源、降低成本，我们把换热器大家族层层化简，聚焦到一点：只做板式换热器。高度的聚焦和高度的专业大大提高了产品的技术性、可靠性、适用性、安全科学性。

德孚换热将以专业的视角和专注的态度，集中所有精力和资源专心致志、一心一意的做好一件事。



沸克 沸克作为换热器行业的高端品牌以成就完美、服务社会为使命，带着冷静的思维和高涨的热情投入到工作中的每一个细节。

沸克品牌以安全为一切行为的出发点，打造“最安全的板式换热器”是我们追求的起点和肩负的责任，我们将为此一直努力！

没有安全就没有一切！换热器作为工业产品和再生产资料，只有安全才能保证生产效率和经济效益。

沸克换热器从市场调研、产品定位、产品设计、生产工艺、安装使用、保养维护、运输交易各个环节自始至终都以安全为最高宗旨！

“与沸克同行，让您高枕无忧！”是我们的目标和践行的标准！

Defu locates in Dezhou city of Shandong province where has good information resource, logistics resource and transportation infrastructure, and we can delivery our products on time to anywhere in China.

Heating exchangers are one big product family, Defu only concentrate attention on plate heating exchanger for high quality, on time delivery, extending application field, resource & cost saving. High concentration & profession improve product technology, stability, applicability, safety performance greatly.

Defu will devote our mind and resource to make perfect product in one focus with professional viewpoint and dedicated attitude.

Faykooor-As the heat exchanger industry's high-end brands, To achieve perfection, serve the community as the mission. With a calm mind and high enthusiasm for every detail of the work.

Faykooor-To secure all the behavior of the starting point, build "the safety of the plate heat exchanger" is our pursuit of the starting point and the responsibility, we will therefore always try!

Without security there is no anything. Heat exchanger is used as the material of industrial products and reproduction, only the safety can guarantee the production efficiency and economic benefit.

Faykooor heat exchanger from the market research, product positioning, product design, production process, the installation, maintenance, transportation and all aspects of the transaction from beginning to end to the highest purpose!

"Walk with Faykooor, allowing you to sleep without any anxiety"! Is our goal and practice standard.



FAVKODA
沸克板式换热器

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产品使用 Products use

保养 Maintenance

维修 Service

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板式换热器的组成与功能

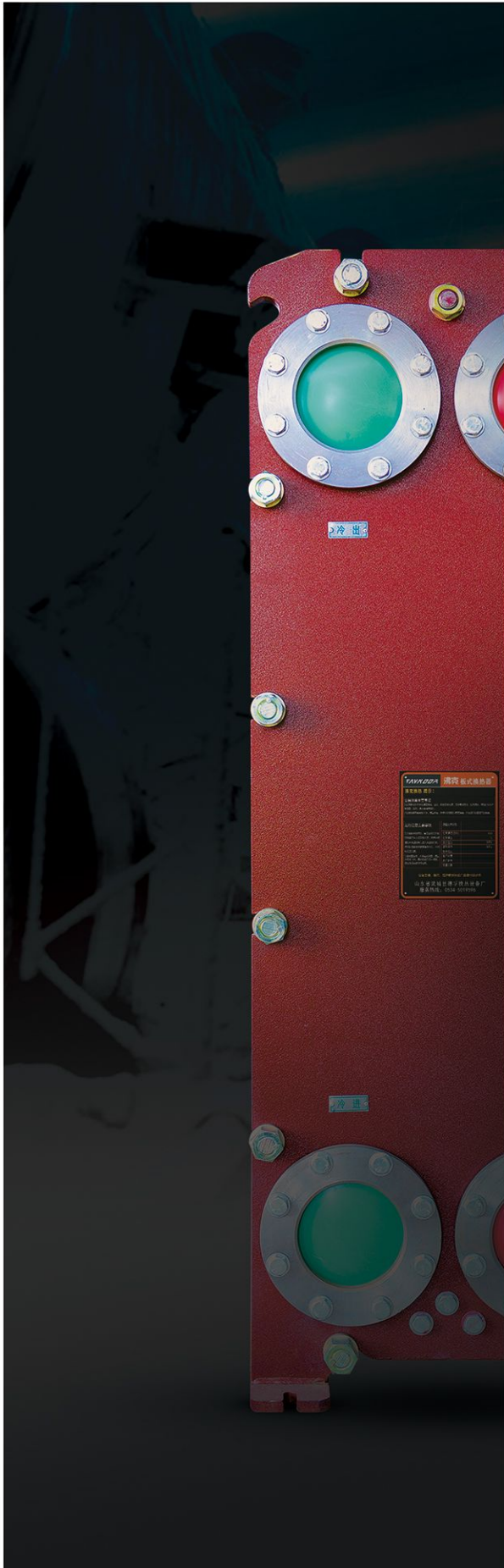
COMPOSITION & FUNCTION OF PLATE HEATING EXCHANGER

板式换热器

可拆式板式换热器是由许多换热板片（冲压有波纹槽的金属薄板），按一定间隔四周通过密封垫片密封，并用夹紧螺柱压紧而成，其角上的孔构成了连续的通道，介质从入口进入通道，并被分配到换热板片之间的流道内，每张板片都有密封垫片，板与板之间的位置是交替放置，两种流体分别进入各自通道，由板片隔开，一般情况下，两种介质在通道内逆流流动，热介质将热能传递给板片，板片又能将热能传递给另一侧的冷介质，从而达到热介质温度降低被冷却，冷介质温度升高得到加热的目的。

PHE

Detachable plate cooler is made of many heating exchange sheets which are sealed by seal shims with a certain separation all around, and compacted with fasten bolts. The holes in the corners become serial route which makes fluid into the route at entrance and distribute fluid into the routes among the heating exchange sheets. Each sheet have sealing shims, location is alternate between sheets. Two kinds of fluids flow into route and then will be separated by the sheets. Generally two different fluids flow in the routes in recessive orientation. Heat fluid conducts heat energy to heating exchange sheet, and then the sheet conducts heat energy to cool fluid in opposite side, in this way, heat fluid will cool down and cool fluid will be heated.



结构组成 STRUCTURAL COMPONENTS

板式换热器由板片、前夹板、上导杆和下导杆及后夹板构成。有些板式换热器还带一个导杆支架。

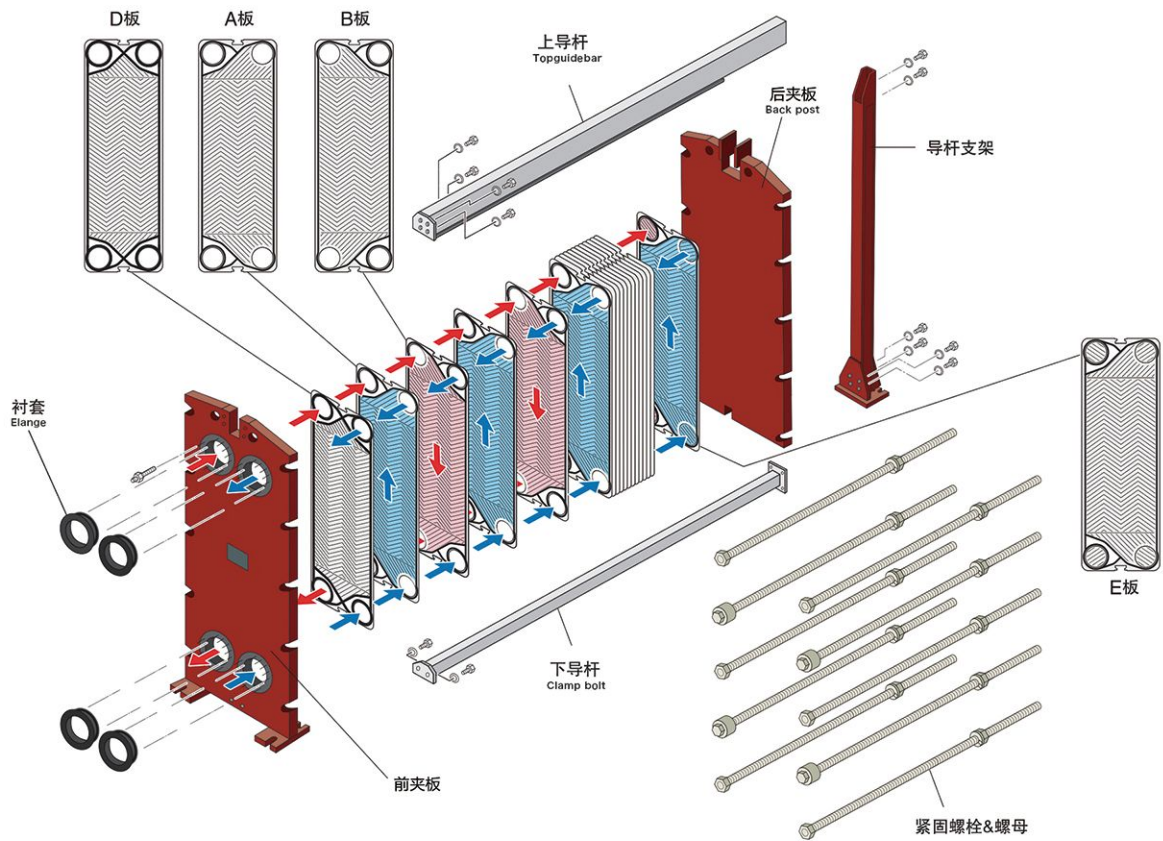
固定压紧板和活动压紧板之间悬挂着数量经过计算的换热板片。每块板片都配有密封垫片。

板片都装在框架上，相邻板片之间的旋转角度为180°。这就是说，板片之通道的每隔一个板上的角孔周围都形成了双重垫片密封。板片由一些压紧螺栓及螺母压紧。

Plate cooler is made of front plywood, up guide bar, down guide bar and back plywood. Some plate cooler has one bracket of guide bar.

A certain quantity heat exchange sheets hang between fixed pressing sheet and mobile pressing sheet, and each sheet has seal shims.

The sheets are fixed to frame with rotation angel 180 as to each adjacent sheet. That means it becomes double shim sealing around the holes which lie on the sheets through the fluid routes, and the sheets are fixed by fasten bolts.



板片 PLATE

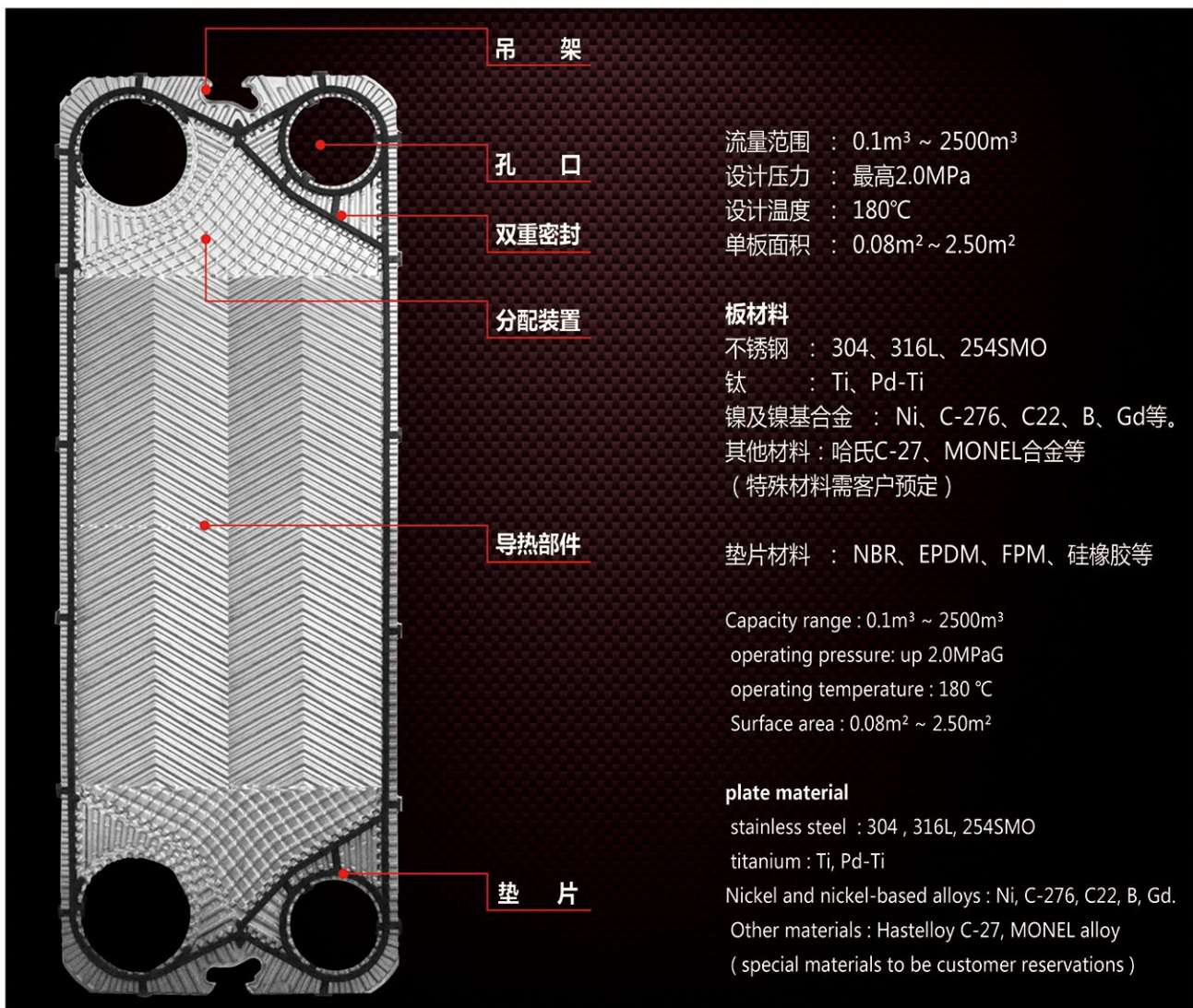
每块导热板被加工成各种波纹形状，以增加它的强度和导热面积。

此外，波纹能提高湍流，来提高导热系数。导热板在每个角上有通道孔。每块板用一个嵌入其外缘槽中的垫片加以密封。

Each heat conducting plate is made into all kinds of corrugated shape, in order to increase its strength and thermal conductive area.

In addition, the ripples can increase turbulence, to improve the coefficient of thermal conductivity. Thermal conductive plate with passage holes on each corner. Every board with a loaded the outer edge of the gasket to seal.

标准型号广泛的应用范围 STANDARD MODEL WIDE APPLICATION RANGE



人字形图案 HERRINGBONE

A系列中的人字形结构有波纹，其纹距粗而深。

在C系列中，纹距细而浅。因此，A系列适于需要低NTU的用途，而C系列最适于高NTU的用途。

B则处在A与C之间。

A series of chevron corrugated structure, its lines from thick and deep. In the C series, the grain from the thin and shallow. Thus, A series suitable for use requiring low NTU, and C series of the most suitable for high-NTU uses. B is located between the A and C.

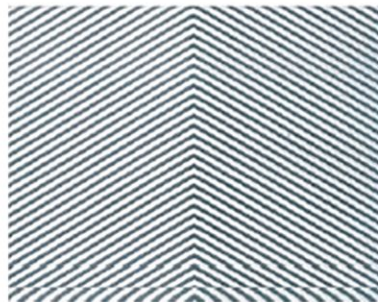
$$NTU = \frac{\text{热温度入} - \text{热温度出}}{LMTD}$$

NTU : 传热单元数(Number of heat Transf Unit)

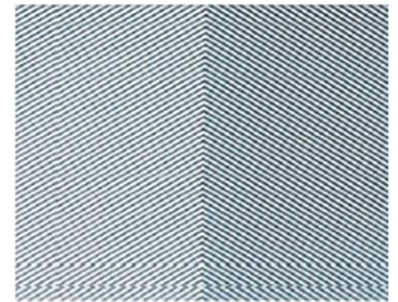
LMTD : 对数平均温差(Logrithmic Mean Temp. Defference)



A系列



B系列



C系列

1.5和低于1.5的NTU通常被认为是低NTU，3.0及3.0以上的NTU被认为是高NTU

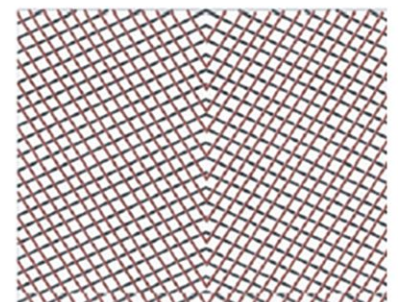
Generally low NTU is equal or less than 1.5, and high NTU is equal or more than 3.0.



缓角度



陡角度



混合排列

即使在同样的系列中，根据波纹角度，板的导热性也不一致。缓角度适合高NTU，陡角度适合低NTU。当缓角度和陡角度波纹的板型一起安装在一个装置时，可以获得中等的传热性能。

In same serial products, different corrugation angels have different thermal conductivity. Obtuse angle matches high NTU, acute angel matches low NTU, mixing obtuse angels and acute angle on same plate matches medium NTU.

密封胶垫 SEALING RUBBER GASKET

不使用胶粘剂，沸克专用嵌入式垫片可承受高达1.6MPa的压力；

垫片嵌入换热板的沟槽之内固定，嵌入和更换垫片快捷方便，大大减少停机时间；

密封与固定功能分离，即使一部分起固定功能的“卡扣”发生故障，垫片仍能在槽中起到密封作用。

FAYKOOR embedded gasket can undertake 1.6MPa pressure without cementing compound.

Gaskets are fixed in the grooves of heat exchange plate, it is easy to embed and replace gaskets and reduce machine down time.

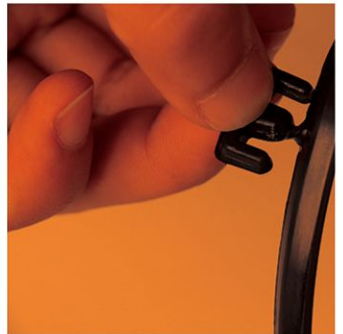
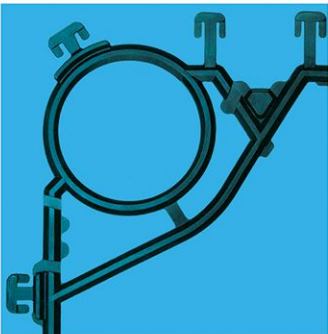
Sealing and fastening function are separated, and even some fastening function fails, but sealing function still works in the grooves.

众所周知，板式换热器(PHE)有效的热交换不仅在板片之间狭小的空间中进行，而且在板片之间的许多垫片也发生热交换。在实际应用中，垫片被认为是PHE中的最重要、最需要进行苛刻要求的部件，垫片不仅要密封住介质，使其不向外界环境中泄露，而且还要防止交换介质之间的互混。所以说垫片的发展直接决定着板式换热器的应用领域。

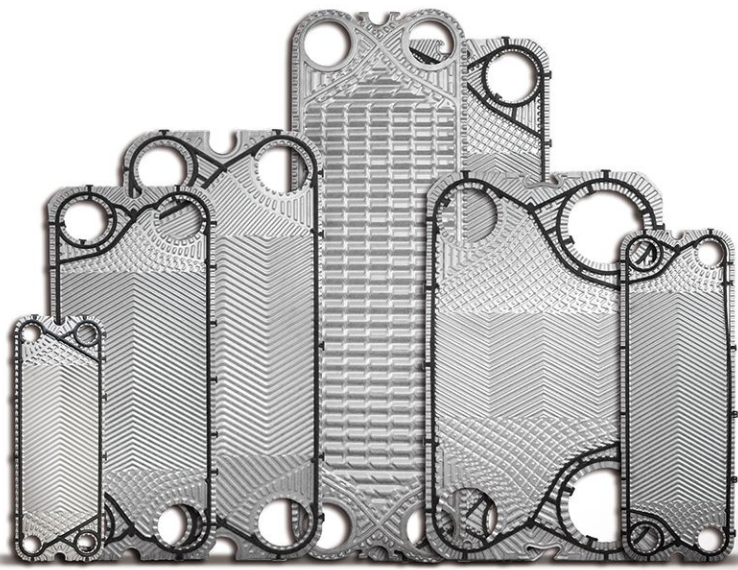


As we all know, plate cooler (PHE) efficient heat exchange not only in the narrow space between the plates is carried out, and in many gasket between the plates are heat exchange. In practical applications, gaskets PHE is considered the most important, most demanding parts needed, not only to seal gasket media, it does not leak to the outside environment, but also to prevent the exchange between the media intermixing. So the development of gaskets directly determines the plate heat exchanger applications.

材料名称 Gasket material	耐温(°C) Applicable temperature	适用介质 Application fluid
丁腈橡胶 NBR	-25 ~ 120	水、海水、矿物油、润滑油、动植物油、烷烃、稀烃、洗涤剂
三元乙丙橡胶 EPDM	-25 ~ 150	过热水、水蒸气、大气臭氧；非石油基润滑油、弱酸、弱碱、酮、醇等有机酸、无机酸、浓碱液
氟橡胶 FKM	0 ~ 180	高温水蒸气、98%以上高浓度硫酸、非极性矿物油、如泵油、润滑油等、也可用于食物油、氯水、磷酸盐



功能特点 FUNCTIONAL FEATURES



传热效率高

板片的特殊波纹结构，使流体在较低流速下即可获得较高的传热系数，换热效率通常是传统管壳式换热器的3~5倍。在完成同一换热任务时，板式换热器的换热面积仅为传统管壳式换热器的1/2~1/3。

High thermal conductivity

Special corrugate plate makes low speed fluid get high thermal conductivity, and it is 3~5 times of traditional shell-and-tube cooler. Under same heat exchange task, its heating exchange square is $\frac{1}{2} \sim \frac{1}{3}$ comparing with traditional shell-and-tube cooler.

占地面积小

板式换热器结构紧凑，单位体积内的换热面积为传统管壳式换热器的2~5倍，因此，实现同样的换热任务时，板式换热器的占地面积仅为传统管壳式换热器的1/5~1/2。

污垢系数低

在板式换热器内流动的流体，即使在较低流速下也可形成剧烈的湍动，这种自冲刷作用使得杂质不易沉积；光滑的不锈钢的板片表面使得杂质不易附着，所以板式换热器污垢系数比之其他类型的换热器污垢系数要小的多。

多种介质换热

如果在板式换热器设置中间隔板，则一台设备可进行三种或三种以上介质的换热。其他类型的换热器是无法实现的。

清洗方便

把板式换热器的夹紧螺栓松开卸掉后，即可松开板束、卸下板片进行清洗。

容易改变换热面积及流程组合

只要松开夹紧螺栓，增加（或减少）板片，即可达到增加（或减少）换热面积的效果；只要安装几张必要的板片（换相片），即可实现工艺需要的流程组合或适应新的换热工况。

Smaller space

Comparing with traditional shell-and-tube cooler, compact heat exchanger can make larger heating exchange square by 2~5 times at unit volume with 1/5 ~ 1/2 space.

Low scaling factor

The fluid flowing in plate cooler can make high turbulence intensity even at low flowing speed. This design is easy to clean the impurities by itself. Smooth stainless steel surface also may reduce retaining impurities. So plate cooler has lower scaling factor than other type products.

Multiple heat exchange mediums

If plate cooler is set up middle separated sheet, one equipment may run more than 3 heat exchange mediums, other type coolers can't achieve this function.

Convenient cleaning

Loosen the clamping bolt of plate heat exchanger after removing, can loosen the plate beam, unload the plate clean.

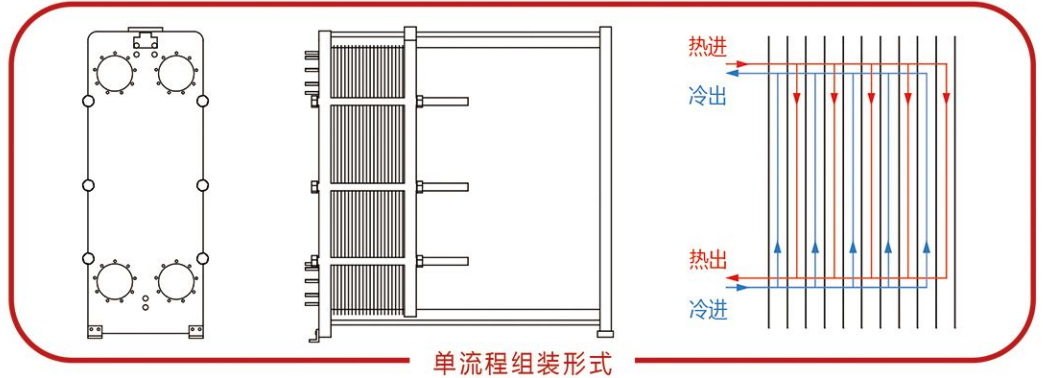
Easy to change the heat exchange area and process

As long as loosen the clamping screw, increase (or decrease) of plates, increase (or decrease) could be achieved with the effect of the heat transfer area: as long as a few necessary installation plate, combined process can be realized technique or adapt to the new heat transfer conditions.

多流程 MORE PROCESS

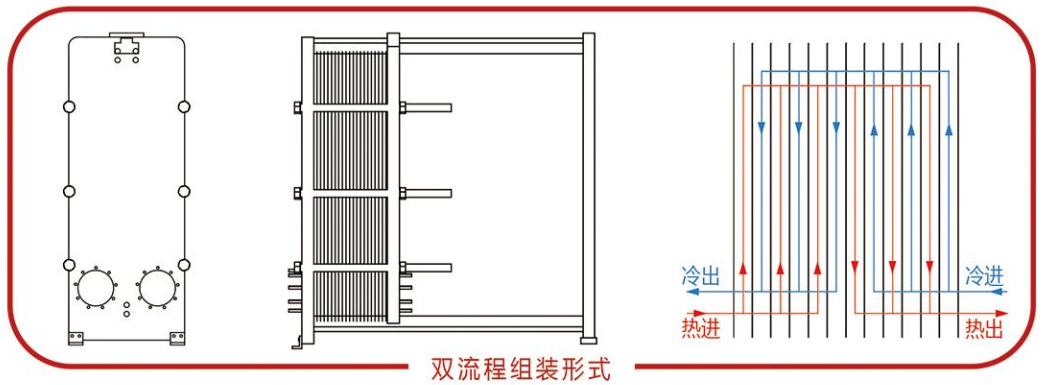
01

单流程组装形式
SINGLE PROCESS
ASSEMBLY FORM



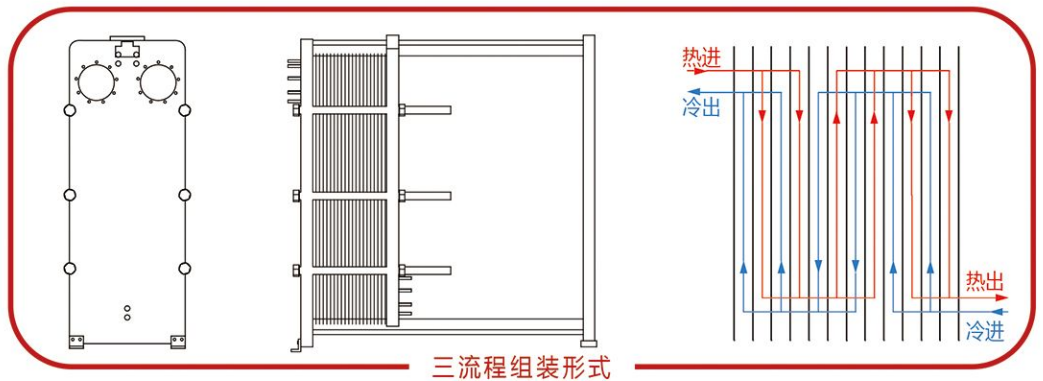
02

双流程组装形式
DOUBLE PROCESS
ASSEMBLY FORM



03

三流程组装形式
THREE PROCESS
ASSEMBLY FORM



板式换热器根据介质的流量，可以装配组合成单流程、双流程、三流程以及多流程的形式。单流程是指介质在换热器内流过一个流程。双流程是指介质在换热器内折返流过两个流程，以此类推，各种流程的外形图和其流程示意图如图。单流程时接口可以都在前面的夹紧板上，也可以不都在前面的夹紧板上，当采用多流程时，换热器的四个接口就不能在同一侧的夹紧板上，进出口要位于前后两个夹紧板上。

一般类似于水粘度比较低的介质在换热通道内的平均速度为0.45m/s较为合适，流速过大，则阻力也大；流速过小，流道内流体流动不能形成湍流，边角处易形成死区，换热效果不好。因此应根据介质流量的大小来选择流程数，使换热通道内的流速接近0.45m/s，以获得最佳的换热效果。对于类似于液压油粘度较高的介质，流速应减小，0.35m/s较为合适。两个流道根据流量的不同可采用不相等的流程数，但最好流程数相等，这样热流道的流体和冷流道的流体可始终保持逆向流动，以获得较好的换热效果，流程数增加，阻力也会增加。

Plate cooler can be assembled into single process, double process, triple process or multiple process according to different medium flux. Single process means medium flows in one process of plate cooler.

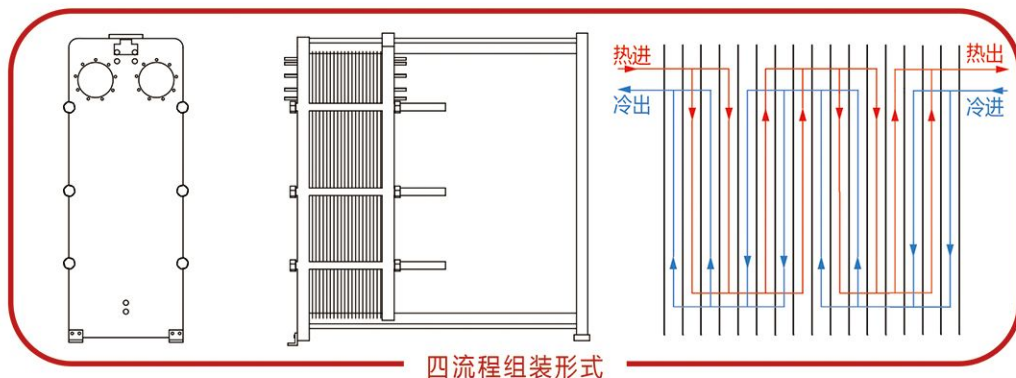
Double process means medium flows in round-trip process of plate cooler, and so on. Please refer to the maps for different kinds of process. As to single process, all or partial connecting interfaces can be fixed on the front fastening board. As to multiple process, four connecting interfaces can't be fixed on same sides of fastening board, in & out connecting interface should be fixed separately on front & back fastening boards.

Generally the speed 0.45 m/s of low water viscosity medium is best in cooling flow channel. Higher speed will trigger bigger resistance, and lower speed can't trigger turbulence in cooling flow channel, the cooling effect is not good. So please select appropriate speed according to different flow medium and make it close to 0.45 m/s for best cooling effect. As to low viscosity medium such as hydraulic fluid, please select low flow speed, and 0.35 m/s is appropriate. Two flow channels may select different process according to different flow rate, and it is best to take same process. In this way, cooling fluid and warm fluid can always keep recessive flow to get best cooling effect. The resistance will increase with the increasing of flow numbers.

04

四流程组装形式

FOUR PROCESS ASSEMBLY FORM



板式换热器与管壳式换热器对比

Plate heat exchanger and tube type heat exchanger

更灵活

当换热能力需要提升时，沸克板式换热器良好的可扩展性帮助您轻松解决问题，在已有的换热器上增加或减少板片组非常简单易行。

更节能

沸克板式换热器的接近温差能达到 1°C ，这样它就能使系统实现比采用管式换热器时更高的吸气温度和更高的换热效率，在一个全新的换热系统中，如此便可以减小压缩机的功率和相关其它部件。

型号

沸克板式换热器的型号有很多选择，接口尺寸从最小的DN20一直到最大的DN400。单机最大换热量可以达到22400kw。

板式换热器 PLATE HEAT



Better Flexible

When cooling capacity need increase, Faykooor plate cooler's good expansibility can meet this demand easily by increasing or decreasing plate package.

More flexible

Faykooor plate cooler proximity temperature deviation is 1°C , and this can make it achieve higher air-admission temperature and higher cooling efficiency. In a new cooling system, this can reduce compressor varieties and relative components.

Varieties

There are a lot of varieties as to Faykooor plate coolers for customer selection with the connection interface size from minimum DN50 to maximum DN400. Single refrigeration maximum capacity can meet 22400KW.

管壳式换热器 SHELL AND TUBE HEAT EXCHANGER



安装空间小，维护容易

沸克板式换热器的占地面积仅为管式换热器的三分之一，而重量仅仅是管式换热器的六分之一。沸克板式换热器在安装空间内就可以进行维修，而不需要拆除管道。

Smaller installation space and easy maintenance

The usage square of Faykooor plate cooler is 1/3 of tube type heating exchanger and its weight is only 1/6 comparing with tube type heating exchanger. Faykooor plate cooler can maintain in installation space and needn't disassemble pipelines.

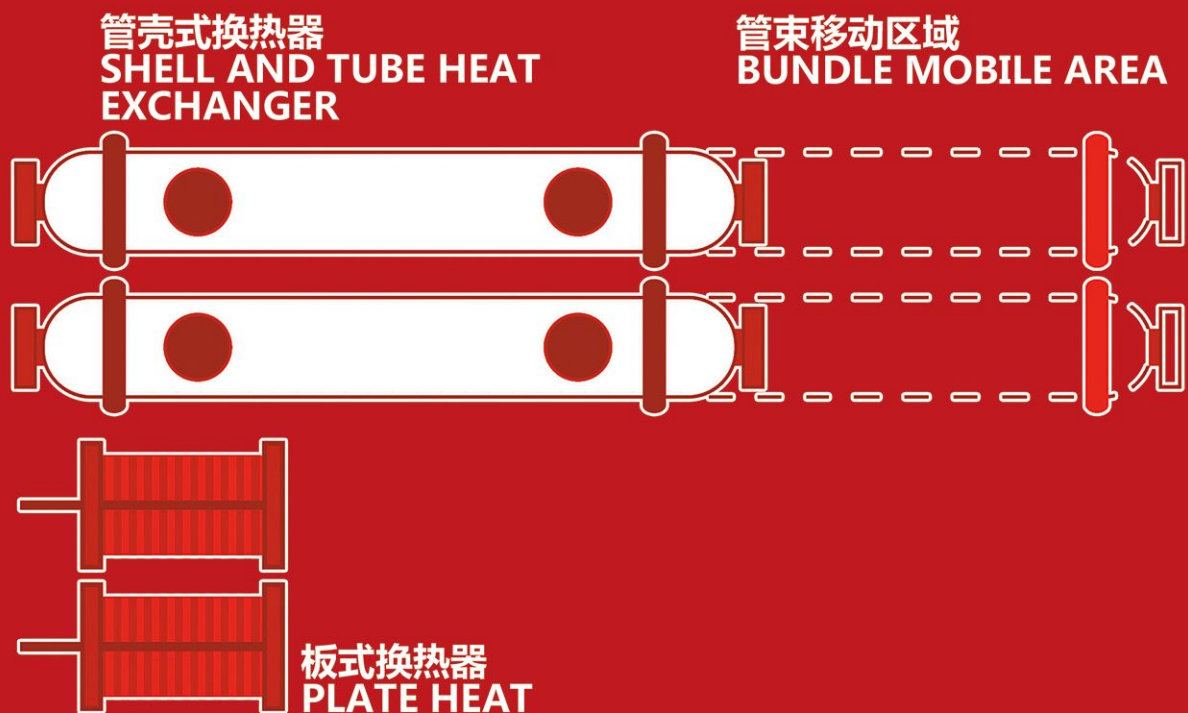
更少的换热剂消耗

更高的传热系数大大减少了换热面积并降低了换热剂充注量。在同样的工况中，使用沸克板式换热器所消耗的换热剂量仅仅是使用管式换热器时换热剂耗量的20%-30%。更少量的换热剂意味着极优秀的成本控制以及更好的环保意义。

Less cryogen consumption

Higher thermal conductivity decreases cooling square and cryogen usage. Under same conditions, the cryogen consumption of Faykooor plate cooler is 20% ~ 30% of tube type heating exchanger consumption.

Low cryogen consumption stands for lower cost and better environmental protection .



切割剂（可溶性油、乙二醇等）的冷却

- 硅片切割机·伸线机
- 研削机·押出机·切削机

超纯水的加热,热媒的加热

- 硅片切割机·伸线机
- 研削机·押出机·切削机

水、油的冷却

- 润滑油冷却器·保护水冷却用的中央冷却器
- MGO冷却器
- 发电机冷却水冷却器
- 压缩机·汽轮机
- 发动机的润滑油

温度调节

- 温水池·大型洗浴池
- 温泉

耐酸铝、电镀液等的作业水调温

- 耐酸铝处理·镍电镀
- 锌电镀·铜电镀·铬电镀

循环水加热、换热

- 地域冷暖房·热泵冷热水机组
- 盒式空调·水蓄热·冰蓄热

油的冷却

- 高频淬火·锻造
- 真空淬火·淬火

硫酸等工艺水的冷却器

- 浓硫酸冷却器·发烟硫酸冷却器
- 硫酸铜溶液冷却,加热

工艺流体的热交换

- 蒸馏塔热回收·原料预热·蒸汽的凝缩
- 制品冷却器·反应塔间接温度调节
- 工艺水的蒸发

传动油的冷却

- 电线膜装置·塑料膜装置·橡胶混炼机
- 射出成型机·金属模具温度调节·冲压机

工艺水的热交换, 水的加热、冷却

- 液体食品的杀菌/灭菌·瓶洗净机
- 啤酒制造·酱油,酒,醋制造
- 蔬菜洗净·制面机

洗净液的温度调节和热回收

- 洗净液废热回收·洗涤机械
- 布料,不织布洗净工程
- 金属工作物洗净液温度调节

应用领域

Industry application





暖通空调 HVAC

区域供暖	district heating
生活热水	domestic hot water
游泳池水加热	swimming pool water heating
地板辐射供热	radiant floor heating
空调站中央换热系统	central air conditioning station cooling system
低温核供热	nuclear heating
地热站	geothermal station
基本加热器	basic heater



食品工业 Food industry

乳品加热、冷却	Dairy heating , cooling
啤酒、麦芽汁的加热、冷却	Heating beer , wort cooling
果汁加热、冷却	Juice heating , cooling
酱油、醋的杀菌、冷却	Soy sauce , vinegar, sterilization and cooling
动植物油加热、冷却	Animal and vegetable oils heating and cooling
酒精糖化、液化、发酵	Alcohol saccharification , liquefaction , fermentation



钢铁工业 Steel industry

连铸机冷却	cooling of continuous casting machine
淬火油、乳化液冷却	cooling of quench oil and emulsine
工艺水冷却	cooling of processing water
冷却减速器、压缩机润滑油	cooling of processing water cooling of lub oil of reducer and compressor
焦化厂水冷却	water cooling in coking plant



化学工业 Chemical industry

合成氨生产装置	synthetic ammonia plant
离子膜烧碱装置	ion film caustic soda plant
循环水冷却	cooling of circulating water
盐溶液加热、冷却	heating and cooling of Hydrochloric acid solution
甲醛冷却	cooling of formalin



有色冶金 Non-ferrous metallurgy

硫酸铜电解液的加热、冷却	heating and cooling of Electrolyte of copper sulphate
稀硫酸冷却	cooling of thin sulfuric acid
铝酸盐溶液的加热和冷却	heating and cooling of Aluminate solution
炼铝轧机润滑油冷却	cooling of lub oil of rolling mill

产品安装使用及维护清洗

PRODUCT INSTALLATION AND MAINTENANCE TO CLEAN

产品安装 product installation

设备拆箱后，应按装箱单所列逐项进行检查，如果有不符合事项应及时与本公司联系以便及时解决。

冷热介质进出口接管之安装，应严格按出厂铭牌所规定方向连接，否则，板式换热器性能将受到影响。

设备周围必须留出不少于1米的空间，以便于检修。

与设备连接的管路必须冲洗干净后，方可与设备连接，以防造成阻塞。

在靠近板式换热器的四个管路上均应安装温度计和压力表。

连接前再次确认管路与设备上流体标向牌是否一致。

Please check the equipments & accessories according to package list after packages are opened. If there is any noncompliance, please contact us timely.

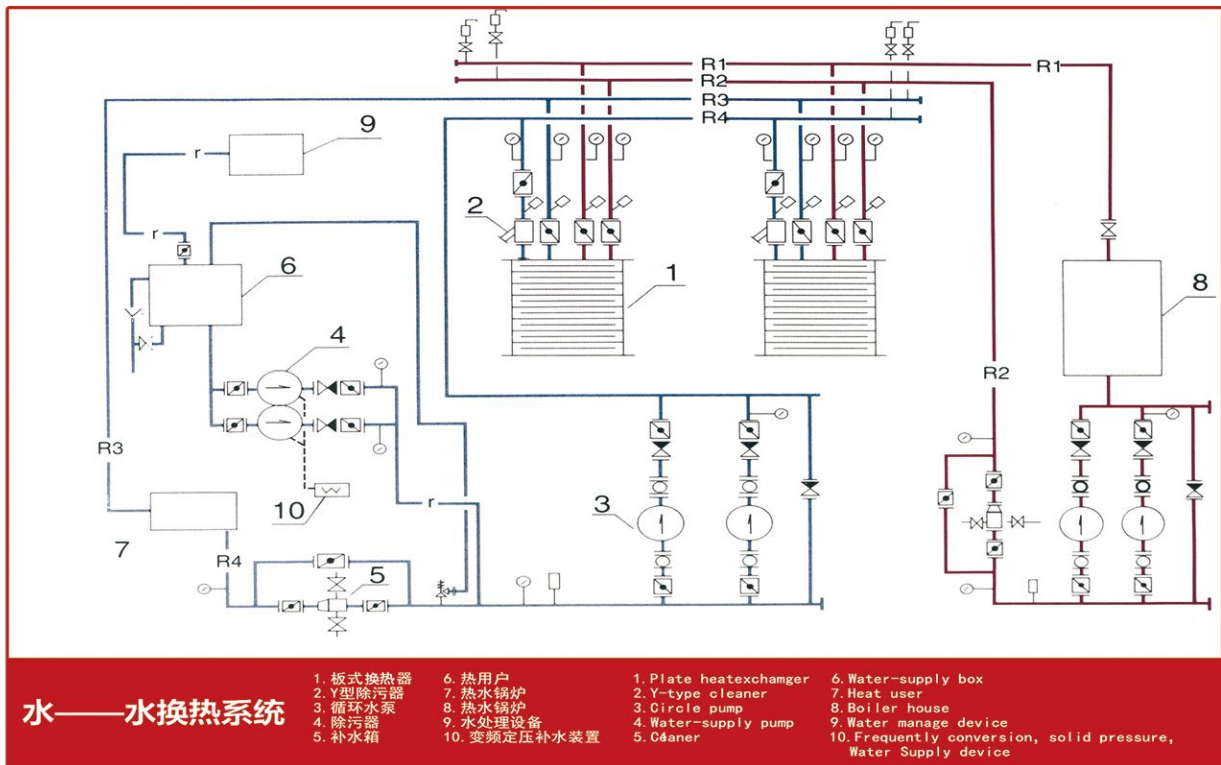
Please follow up original nameplate guideline to install cool & heat mediums in/out connection tubes, otherwise the equipment function will be impacted.

Above 1 meter space is required around the equipment for any possible maintenance in future.

All pipelines must be cleaned before they are connected to equipment.

Please install temperature gauges and pressure gauges to the 4 pipelines closely connecting to equipment

Please double conform pipelines to align with the orientation marked on the fluid nameplate before connection.



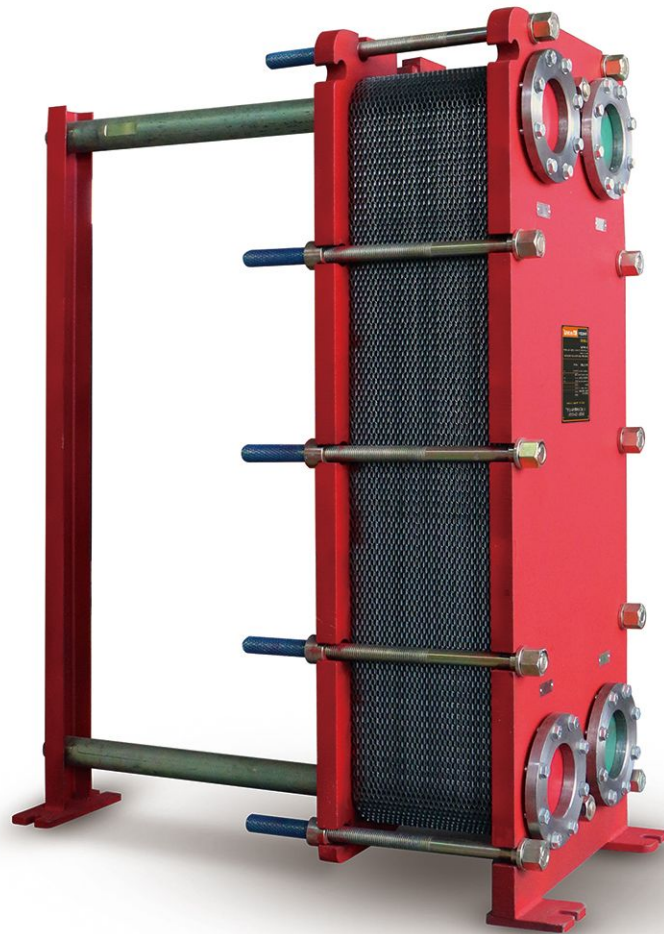
产品使用 Products use

第一次调试前请仔细检查以下各项：

- a.所有连接部位是否牢固和密封可靠；
- b.检查板式换热器所有夹紧螺栓，如有松动，应使用扳手拧紧并保持两压紧板间平行度偏差不大于1mm。
特别提示：用卷尺或钢尺将两压板间的距离测量并记录，以备下次维修时夹紧到该尺寸。
- c.流入板式换热器的两种流体阀门应全部关闭，流出板式换热器的两种流体阀门应全部开启。
- d.系统中可能出现的最高温度和最高压力，应不大于板式换热器铭牌上标注的设计温度和设计压力。

Please double-check before the first commissioning all

- a.All connections are secure and reliable seal.
- b. Check all clamping plate cooler stud, if loose , apply wrench tighten and maintain pressed between two parallel plates deviation is less than 1mm.
Special Note : Use a tape measure or ruler to measure the distance between the two platens and records to prepare for the next clamped to the size of the repair .
- c. two fluids flowing into the plate cooler valve should be fully closed , the outflow valve plate cooler of the two fluids should be fully open.
- d. The maximum temperature and maximum pressure of the system may appear to be no more than a plate cooler nameplate design temperature and design pressure .



保养 maintenance

冬季停止运行时，应及时排放设备内的积液，避免冻坏设备。

如果超过两个月不使用，应将夹紧螺柱放松，放松后的尺寸为原来夹紧尺寸的115%~120%。使用时再按要求拧紧。

When winter stops, should timely discharge the fluid inside the equipment, avoid freezing equipment.

If you don't use more than two months, the clamping screw should be relax, relax after the size of the original grip size of 115% ~ 120%. When used in tight as required.

维修 Repair

板式换热器的拆卸（注意：拆卸前再次确认两压紧板间的距离）

- 1.沿压紧板对角方向，依次松开夹紧螺栓，直至摘下夹紧螺栓。
- 2.沿上导杆移开活动压紧板至支柱。
- 3.依次摘下传热板片并水平依次摆放。

Removal of the plate heat exchanger (Note: Before removing reconfirmed distance between two pressing plates)

1. compression plate along a diagonal direction , followed by release clamping studs, clamp off until the stud .
2. Remove movable along the guide rod clamping plate to the pillars.
3. turn off the heat transfer plate and placed horizontally sequentially .

板片清洗 Plate washing

根据板片表面沉积的污垢，选用适合的清洗液。将板片浸泡于清洗液中，待垢层软化后再将垢层洗刷干净（注意：不得使用钢丝刷）。

垫片的更换：板式换热器经长时间使用后，密封垫片可能发生老化而出现渗漏，应及时更换垫片。

我公司生产的板式换热器采用免粘接挂垫，拆卸、清洗、维修更换极为方便。

According to the deposition of dirt on the surface of plate, choose suitable cleaning fluid. Soaked the plate in the cleaning fluid, soften dirt layer will be dirty again after washing clean (note: must not use steel wire brush).

Gasket replacement: after long time use of plate heat exchanger, sealing gasket aging and appear leakage may occur and shall promptly replace the gasket.

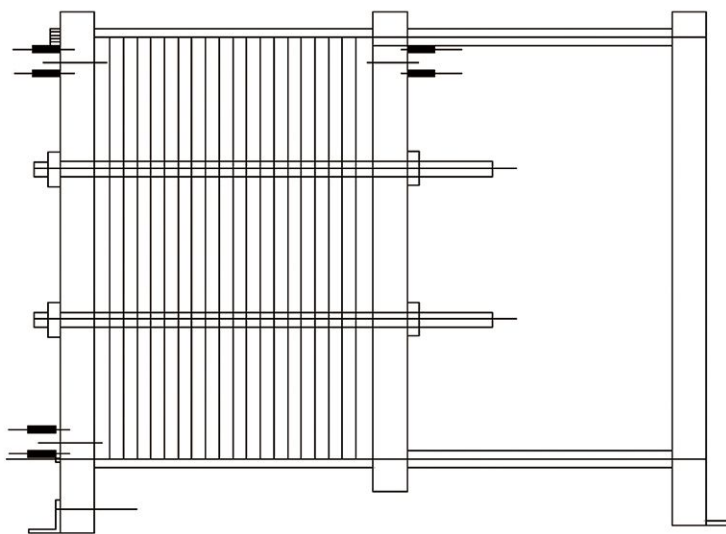
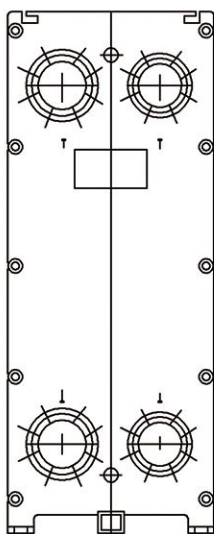
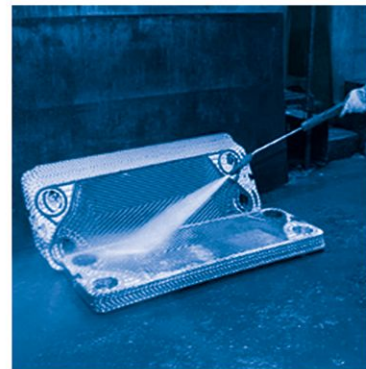
板式换热器的组装 **Phe assembly**

将板片按原顺序逐张挂在上下导杆之间并推向固定压紧板一侧。

将活动压紧板推向板片束，装入全部夹紧螺栓，按压紧板对角方向成对同时拧紧螺母。在拧紧过程中，两压紧板间的平行度偏差不得超过5mm，拧紧到夹紧尺寸时，两压紧板间的平行度偏差不得超过1mm。

The plate in the original order by hanging between the upper and lower guide rod and the fixed pressure plate side.

Will keep plate to the plate and beam load all the clamping screw, pressure plate diagonal pairs and tighten the nut. In the process of the screw, the parallelism between the two pressure plate deviation shall not be more than 5 mm, tighten the clamping size, the parallelism between the two pressure plate deviation shall not be more than 1 mm.



客户服务&销售承诺

CUSTOMER SERVICE & SALES COMMITMENT

售后流程 After the process



用户设备
出现故障

Equipment breakdown
happen at customer



ON LINE

用户拨打售后服务中心电话
寻求帮助

Call customer service hotline



资深工程师在线协助用户
排除故障

Senior engineer troubleshooting
support on line



设备故障
排除用户高枕无忧

Resolve the trouble & satisfy
the customer



登记备案
统一管理

Record this troubleshooting
log



客户中心通过各种方式进行
服务质量跟踪及时取得用户
反馈 改善服务质量

Customer service investigation &
continuous improvement

客户服务 Customer Service

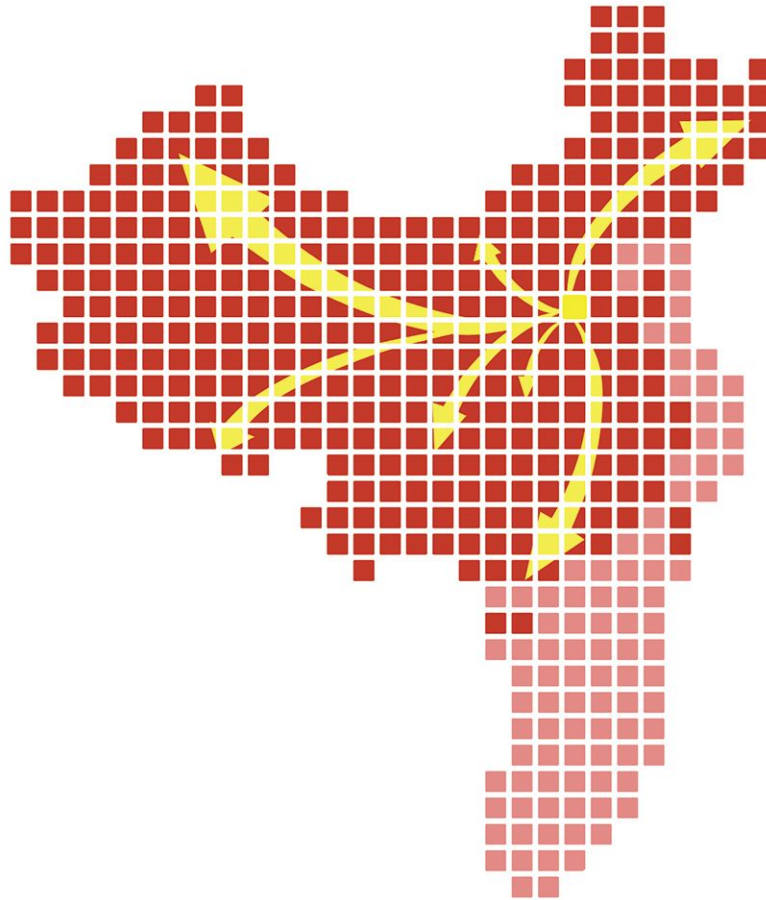
诚信铸就品牌 服务编织未来 我们真诚对待
每一位客户!

沸克可为用户提供技术选型服务; 产品质保期为2年, 两
年之内如有质量问题免费更换板片和胶条
全国统一服务热线: 400-708-0996

Meet customer satisfaction by integrity brand,
best service and sincerity!

FAYKOOR can provide professional technical service with 1 year
quality guarantee period. We may provide free replacement of
plates and adhesive tape for any quality issues in 1 year.
China official service hotline: 400-708-0996

销售承诺 The sales commitment



● 注：全国地区统一山东德州发货 保证原厂生产

关于包装

沸克换热器采用木箱包装，不仅美观，而且实用，有效的避免了在发货的路途中对产品产生不必要的损伤和对表面漆层的破坏。

Package

FAYKOOR plate coolers use beautiful & solid wooden packages to prevent any potential damage and scrap risks in transportation and loading/unloading.

关于发货、收货

在用户付款后，仓库开始计料生产，一般在4-5个工作日生产完毕，随后检验入库，最后打包出库由物流发出。

在用户收到板式换热器时，为避免不必要的麻烦请务必当面签收，现场验货，一旦发现设备损坏请拒绝收货然后电话联系我们，以便及时解决问题。

Shipping & Goods Receiving

After get customer payment, we start to production planning and material preparation, production will be done in 4~5 days, products will be moved into warehouse after quality inspection, and then the products will be delivered to customer with good package by 3PL company.

When customer receives the products, please double check and sign with 3PL company driver. If there are any products damage or errors, please call us timely for quick troubleshooting.



FAVKODA

沸克板式换热器

德国工艺

German technology

支付安全

the warranty payment

瑞典技术

Sweden doubled

质保加倍

security technology

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