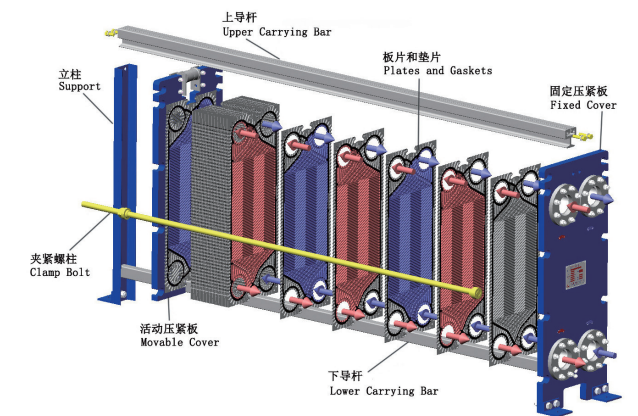


Plate & Frame Heat Exchanger

可拆卸板式热交换器

Shanghai
Heat Transfer
Equipment

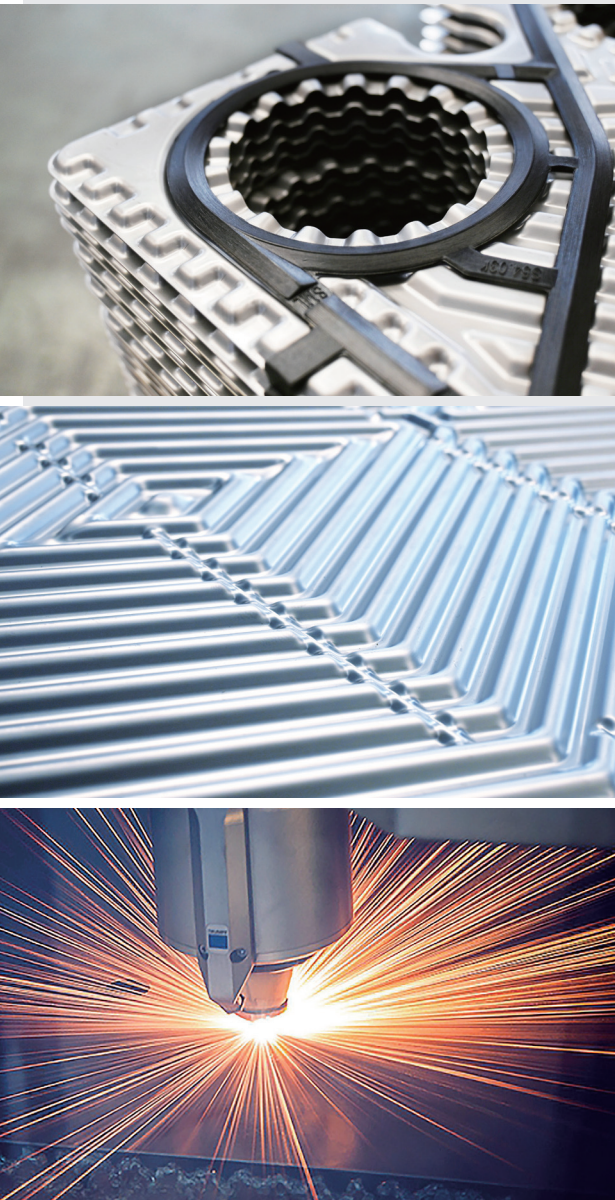


HEAT TRANSFER

可拆卸板式热交换器是由许多冲压有波纹槽的金属热交换板片，按一定间隔交替放置，每张板片都有垫片密封，并用夹紧螺柱压紧在框架内而成，其角上的孔构成了连续的通道，介质从入口进入通道，被分配到热交换板片之间的流道内，两种介质在通道内逆流流动，冷热侧的热量通过热交换板片进行传递，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。具有传热系数高、污垢系数低，结构紧凑、占地空间小，检修、清洗方便，末端温差小，重量轻等特点。

Plate & frame heat exchanger is composed of heat transfer plates (corrugated metal plates) which are sealed by gaskets, tightened together by tie rods with locking nuts between frame plate. The port holes on the plate form flow channel, the fluid runs into the channel from inlet and is distributed into flow channel between heat transfer plates. The two fluids flow in counter current. Heat is transferred from hot side to cold side through heat transfer plates, the hot fluid is cooled down and the cold fluid is warmed up. The main features of Plate & frame heat exchanger: high HTC, low fouling resistance, compact structure with small footprint, easy maintenance and cleaning, small end approach temperature, light weight, etc.

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产品特点	Features
传热系数高	High heat transfer coefficient
结构紧凑、占地空间小	Compact structure with less foot print
检修、清洗方便	Convenient for maintenanccec and cleaning
污垢系数低	Low fouling factor
末端温差小	Small end-approach temperature
重量轻	Light weight

板片材料	Plate Material
奥氏体不锈钢	Austenitic stainless steel
双相不锈钢	Duplex steel
钛及钛合金	Titanium and titanium alloy
镍及镍合金	Nickel and nickel alloy

基本参数	Parameter
角孔直径: DN32 ~ DN500 (接管连接形式有法兰连接、螺纹连接)	Nominal dia: DN32~DN500 (with flanged nozzle or studded connection)
板片厚度: 0.4 ~ 1.0mm	Plate thickness: 0.4~1.0mm
波纹深度: 1.8 ~ 10.0mm (适用于清洁、低粘介质、含有纤维、粘稠、固体颗粒介质等工艺条件)	Profile depth: 1.8~10.0mm (suitable for clean, low viscosity medium and process containing fiber, viscous and solid particles)
最高设计压力: 3.6MPa	Max. design pressure: 3.6MPa
最高设计温度: 180℃	Max. design temp: 180 ℃
最大组装面积: 4000 m²	Max. surface area: 4000m²

密封垫材料	Gasket Material
丁腈（食品）橡胶	NBR（NS）
氯化丁腈橡胶	HNBR
三元乙丙（食品）橡胶	EPDM（ES）
耐高温三元乙丙橡胶	H-EPDM
氟橡胶	FKM
聚四氟乙烯包覆橡胶	PTFE CUSHION



热交换板片是板式热交换器的核心元件，运用CAD/CFD/CAE/CAM等三维软件设计板片模具，在板片的研发及综合技术上进行优化，达到结构合理、换热效率高、精度高、承压能力大等特点。

Heat transfer plate is the core element of plate heat exchanger. The plate tool is designed with CAD/CFD/CAM and optimized to achieve best configuration, high heat transfer efficiency, high precision and high pressure resistance.

DUPLATE® 板片

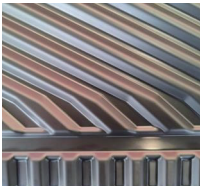
双相不锈钢
DUPLATE®板片
适用于高温、高压
苛刻工况使用



DUPLATE® (in duplex stainless steel) is suitable for critical process with high pressure, high temperature.

密封加强边™

独特的密封加强边™结构设计，确保板片具有可靠的耐高压密封性能



The design with reinforced sealing edge of the plate enhanced sealing performance of the plate at high pressure.

回型双面扣™

独特回型双面扣™结构，使板片与胶垫的连接更为可靠



The double clip gasket design makes the fixing between plate and gasket more reliable.

板片密封专有技术

板片采用熊猫眼™设计结构，降低阻力损失，提升流体流通能力及传热效率

The design with Panda Eye of the plate reduced pressure loss, fluid flowing capacity and heat transfer efficiency get enhanced.