



Semi-welded Heat Exchanger

半焊式板式热交换器

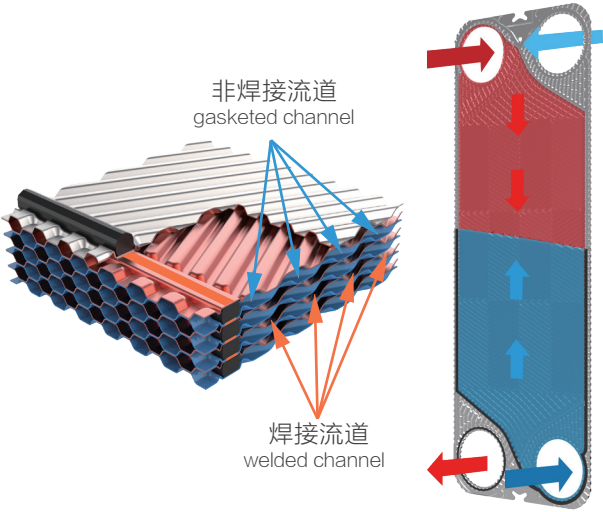
半焊式板式热交换器由激光焊接流道和常规流道交替组成，两张板片焊接而成板片组，形成焊接流道;每一板片组之间采用密封垫密封，形成可拆的常规流道。敏感性介质流经焊接流道，常规介质流经常规流道进行换热。适用于氨和氟利昂等制冷剂的蒸发和冷凝，对于化工和一般工艺热交换中对垫片会产生腐蚀的介质亦是理想的热交换设备。

Plate channels of semi-welded plate heat exchanger are composed of laser-welded channel and gasketed channel in alternate assembly. Two plates are laser welded together to form a cassette which is welded channel. Gasketed channel is formed between two cassettes sealed by gasket. Aggressive fluid goes through welded channel and the other medium goes through gasketed channel. It is applied in evaporation or condensation process such as ammonia, refrigerant. For chemical process in which the fluid is not compatible with normal gasket, semi-welded plate heat exchanger can be the solution.

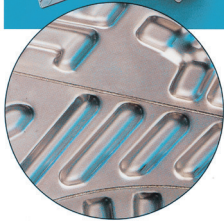
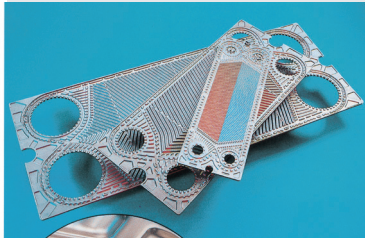
Unique flow channel

独特的流道设计

独特的流道设计可以增加介质流经板式换热器时的紊流强度，增强换热效果并减少相应的压力损失。即使介质在换热器内的流速很低，亦可得到很高的换热效率，为了满足不同工况的要求，有多种板型可供选择。



The unique designed flow channel increases flowing turbulence when the media flowing through the channel, enhancing heat transfer efficiency and minimizing pressure drop. Excellent heat transfer performance can be achieved even with moderate low flow rate. Variety of plate model are available for different application need.



基本参数	Parameter
角孔直径：DN50~DN300(连接形式有金属衬环、接管法兰)	Nominal dia: DN50~DN300(with flanged nozzle or studded connection)
板片厚度：0.6~0.8mm	Plate thickness: 0.6~0.8mm
板片深度：2.5~4.1mm	Profile depth: 2.5~4.1mm
最高设计压力：4.0MPa	Max. design pressure: 4.0MPa
最高设计温度：180℃	Max. design temp: 180 ℃
最大组装面积：1200m²	Max. surface area: 1200m²
板片材料	Plate Material
SUS 304	SUS 304
SUS 316L	SUS 316L
254SMO	254SMO
C-276	C-276
TA1	TA1
密封垫材料	Gasket Material
三元乙丙	EPDM
丁腈橡胶	NBR
氢化丁腈橡胶	HNBR
Viton	Viton

Plate Coil

压焊板换热器

压焊板换热器(热辐射板组)是将两张成形板片采用电阻焊接（点焊和缝焊）形成介质通道。产品结构根据工艺要求可以加工成需要的形状，广泛应用于干燥、油脂、化工、石化、食品医药、暖通空调等行业。

板片材料：碳钢、奥氏体不锈钢、双相不锈钢、镍基合金、钛合金等。

The channel of plate coil is formed by welding two plates together by laser welding/resistance welding. Plate coils can be in variety of configuration according to process requirement. It is widely used in drying, grease, chemical, petrochemical, food and pharmacy, HVAC, etc.
Plate material: Carbon steel, austenitic steel, duplex steel, Ni and Ni alloy, Ti and Ti alloy, etc.

Features

产品特点

可以准确控制传热介质的循环温度和速度；便于清洗、更换、维护；结构灵活、板片材料多样化，适用范围广；传热效率高，在有限的容积内，可以提供较多的传热面积。

Fluid temp. and velocity can be well controlled; Convenient for cleaning, replacement and repair; Flexible structure, variety of plate material, wide application; High thermal efficiency, more heat transfer area within small volume.





Substation Unit

热交换机组

热交换机组是集成了板式热交换器、水泵、阀门、仪表及控制系统于一体的热交换成套设备，可根据用户需要配置传感器、控制器、执行机构、远程通讯等控制系统，以实现不同的控制功能。热交换机组适用于汽-水热交换、水-水热交换、油-水热交换等工作条件，已广泛应用于暖通空调、石化、船舶等行业。

Substation unit is skid mounted equipment integrated with plate heat exchanger, pump, valve, instrumentation and control system. Other accessories like sensors, controller, actuators and remote communication control system can be integrated according to customer's requirements to realize different control function. Substation units are used in process like steam-water, water-water, and oil-water application. It is widely used in HVAC, petrochemical and marine, etc.

Control Function

控制功能

恒温或恒温差、恒压或恒压差供水；气候补偿（温度补偿）；循环泵/补水泵变频调速；来电自启动；泵阀连锁；自动补水定压；超温、超压报警/各种故障报警；各种保护功能；数据采集、通讯，远程控制。

Water supply with constant temp. or constant pressure; Temp. compensation; Circulating pump/makeup water pump frequency control; Self-startup upon power resume; Interlock between pump and valve; Automatic water makeup and pressurization; Fault alarm, eg. temp. and pressure limit exceeded; Different protection function; Data collection, communication, remote control.

Features

产品特点

设计简便，提高工作效率；结构紧凑，占地空间小，节省基建投资；智能化、自动化程度高，可实现远程和就地控制，便于集中管理；先进的设计理念，更注重环保、节能；生活水机组采用独特的设计，在恒温供水的前提下，最大限度地防止水垢的形成，保证系统高效运行；模块化设计，灵活选择，管路控制管理方便。

Smart design improved work efficiency; Compact structure with less foot print, infrastructure cost saving; Both remote and on-site control can be realized upon request; cutting edge design concept, environment friendly and energy saving; Unique design for domestic hot water unit, with constant water temp, preventing fouling at maximum to ensure efficient operation of the system; Modular design with flexible selection, convenient management of piping.

