

Printed Circuit Heat Exchanger

印刷电路板式热交换器

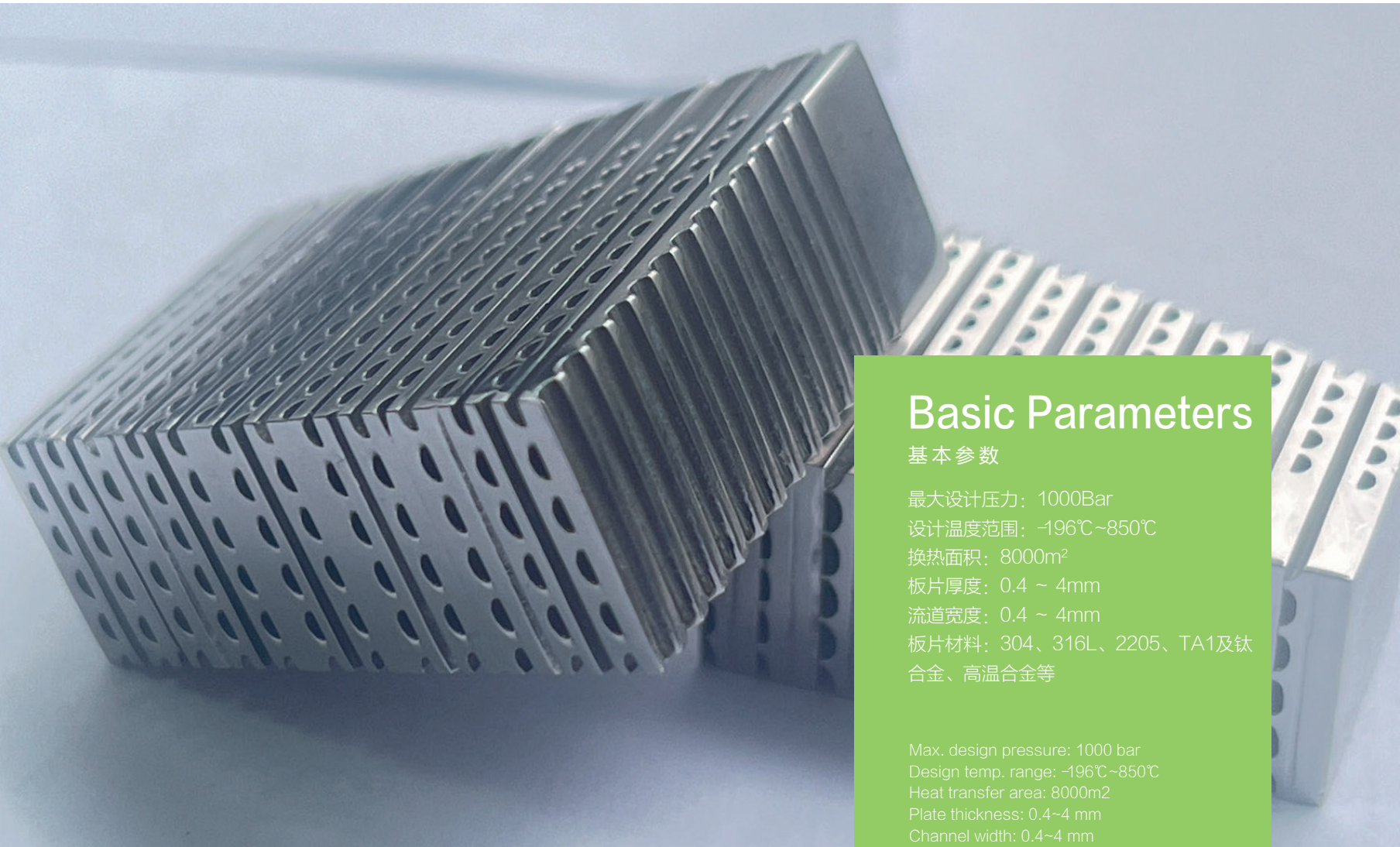
一种高效紧凑的微通道焊接板式热交换器，采用金属板片作为主要换热元件。金属板片通过化学蚀刻形成介质流道，并将板片堆叠通过扩散焊接形成换热芯体。换热芯体与壳体、封头、接管等零部件装配焊接形成热交换器。印刷电路板式热交换器适用于核能、船舶、石油石化、航空航天、电力、新能源等行业，尤其在对换热效率和空间利用有严格要求的场合下表现突出。

Features 产品特点

- 传热系数高
- 承压能力高
- 耐温能力强
- 末端温差小
- 重量轻
- 结构紧凑，占地空间小

Printed Circuit Heat Exchanger (PCHE) is a high efficiency micro channel heat exchanger with extremely compact structure. The heat transfer element is thin plate of different metal, being chemically etched, micro channels are formed. Heat exchanger core is formed by incorporating diffusion bonding (a specialized solid-state joining process) of the stacked plates, assembled with other components like housing, header, nozzles, flanges, etc., complete heat exchanger is made. PCHE has advanced thermal performance in applications where there is demanding requirement for thermal efficiency, space, eg. nuclear energy, marine, Oil & Gas, aerospace, power, new energy.

- High HTC
- High pressure resistance
- Wide temp. range
- Close temp. approach
- Light weight
- Compact structure with small foot print.



Basic Parameters

基本参数

- 最大设计压力: 1000Bar
- 设计温度范围: -196℃~850℃
- 换热面积: 8000m²
- 板片厚度: 0.4 ~ 4mm
- 流道宽度: 0.4 ~ 4mm
- 板片材料: 304、316L、2205、TA1及钛合金、高温合金等

- Max. design pressure: 1000 bar
- Design temp. range: -196℃~850℃
- Heat transfer area: 8000m²
- Plate thickness: 0.4~4 mm
- Channel width: 0.4~4 mm
- Plate material: 304, 316L, duplex steel, Ti, Ti alloy, high-temp. alloy

Plate 板片设计

根据不同的工艺条件，可定制不同波纹形式的板片，形成独特的流动方式，满足不同工况需求。

Plate with different corrugation pattern can be custom made to suit different process need with unique flowing path.

