

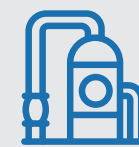
Plate Type Air Preheater

板式空气预热器



CHEMICAL

板式空气预热器是一种节能环保设备，使用平板或波纹板，板片周边通过焊接或机械固定形成板束，整机采用积木式设计，组合方式灵活多变，结构适应性强，特有的空气膜™技术能够有效解决露点腐蚀问题，适用于炼油、化工、钢铁、冶金、电力工业等行业。



STEEL MILL

Plate air pre-heater is energy saving and environmental friendly equipment. The main heat transfer element, ie. flat plates or corrugated plates are welded together to form plate pack. The modular design of the product makes the structure flexible. AIR FILM™ technology provides solution for dew point corrosion. Air preheater is widely used in oil refinery, chemical, steel mill, power plant, etc.

模块化设计理念

具有X型、E型、C型及S型四种基本的换热模块单元，分模块制造，便于运输、现场组装

Modular design

4 different base heat transfer modules available, ie. X brick, E brick, C brick and S brick, making it easy to transport and assemble on site for big size product.

积木式分段设计

可实现模块化、组合化、大型化，空间尺寸调节灵活

The brick combination design

All the base modules can be combined in large scale. Both manufacture process and equipment size turn to be flexible for adjustment.

不易积灰、清洗、维修便捷

换热流道内无死区，不易积灰，即便积灰也便于清洗，且可做到在线清洗

free from dust gathering; convenient for cleaning and maintenance

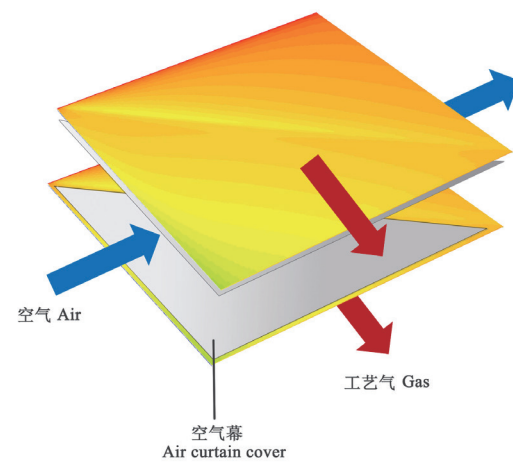
No dead flowing area in flow channel, free from dust build-up.

换热效率高，热量回收充分

烟气出口处换热板温度设计在酸露点5-10℃以上即可安全运行

消除热应力

通过模块化、弹性化、分段分体、补偿器设计等措施解决热应力问题



防露点腐蚀

利用科学的流程布置、特有的空气膜™技术、旁路调节及耐腐蚀材料等方式，防止露点腐蚀

Acid dew point corrosion prevention

Acid dew point corrosion can be prevented or reduced by adjusting pass configuration, AIR FILM technology, by-passing control and corrosion resistant materials.

High heat transfer efficiency, good heat recovery

By setting the outlet gas temp. 5-10℃ above the acid dew point, the equipment can be operated safely.

Relieving thermal stress

multiple measurements to resolve thermal stress, eg. multi-temperature grade method, expansion joints, etc.

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传热性能高、压降低

板式换热元件的传热系数比管式换热元件高1~3倍，且可根据冷、热介质换热前后的体积变化，采用流道间距与流动长度的优化组合，实现传热性能与压降的最优化设计

安全可靠

热交换板片采用全焊接结构，密封性能好，可避免介质的泄漏

Safe and robust

Fully welded plate structure proved good sealing performance, avoiding leakage of the medium.

适用范围广，节能环保

适用于多种位号的常压（低压）气-气换热工况

Wide range of application, energy-saving and environmental protection

Suitable for various gas-gas heat exchange process (atmospheric or low press.)

Higher heat transfer performance and lower pressure drop

HTC of plate type is 1~3 times of tubular type air pre-heater. According to volume change of cold/hot medium before /after heat exchange, it can achieve optimal design of heat transfer and pressure drop by combining channel gap and flowing length.

耐腐蚀性能好，经济耐用

对不同介质、工况可针对性的选择适用材料，从而保证设备寿命，而且可采用高低温分级设计，不同温度段可使用不同材料，有效降低制造成本

better anti-corrosion performance economic and robust

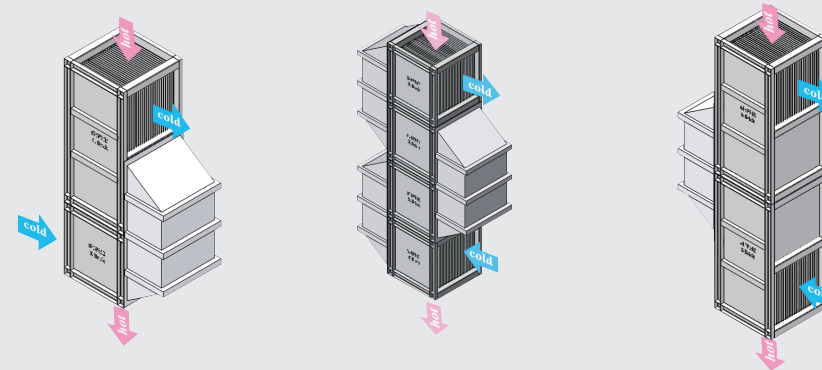
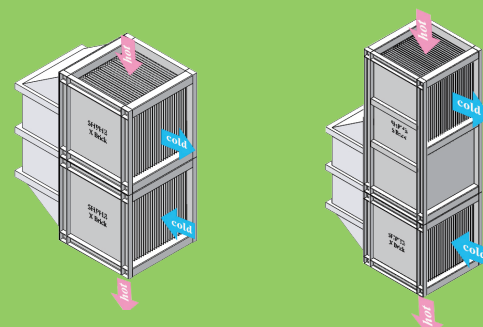
Different material is used for different medium/process to ensure equipment's service life.

结构紧凑，节约空间

单位体积能提供更大的换热面积

Compact structure

More heat transfer area per unit volume.



Shanghai
Heat Transfer
Equipment