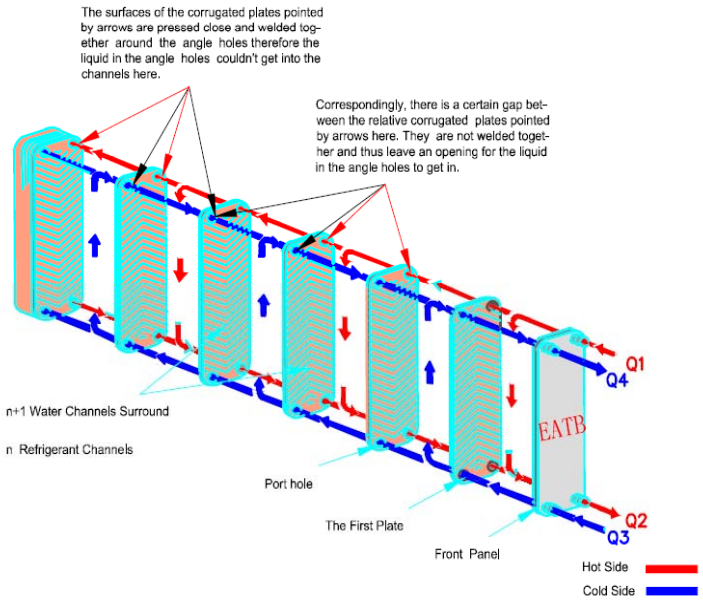
Product use and security maintenance instructions handbook

Brazed Plate Heat Exchanger Inner Structure



Features of Brazed plate heat exchanger

1. **Compact structure:** adopt thin stainless steel, high heat transfer factors.

2. **Reliability:** adopt 316L and copper as well as high quality brazing materials, endure high pressure and temperature, long life and no maintenance need.

3. **Reduce water require:** with the high heat transfer efficiency, only needs 1/3 water usage compare to shell and tube exchanger under same condition.

4. **Lightly:** only 20%~30% weight compare to shell and tube heat exchanger and reduce the logisties cost.

5. **Low fouling factors:** high disorderly flow lower the fouling condition, reduce the maintain.

6. **With distributor:** increase the refrigerant evaporating efficiency and reduce the risks by using distributor to force the refrigerant flow direction.

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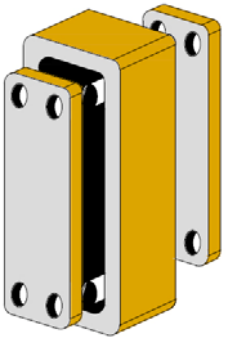
8. **Attachment:** according to customer specification, we can provide most kinds of connections, temperature sensor, stud-bolts, standre, and temperature protection cover.

Insulation:

This product should be insulated in using(evaporator)



Note:

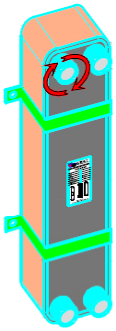
Read the manul carefully before the installation. If need mire details information, please contact Fenghuang

Connecting Methods

1. Screw thread link

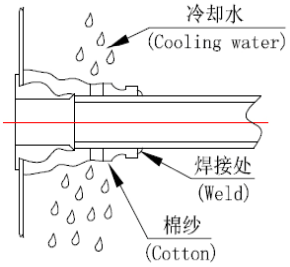
In order to avoid the danger to the components, there will be no load to the link between BPHE and the piece, you need use screw cap and airproof circle to airproof. Use ergometer refer to the data in the table to do the screw thread link.

产品型号	扭 矩 力
EATB12	≤170Nm
EATB15	≤170Nm
EATB23	≤350Nm
EATB25/28	≤400Nm
EATB52/61	≤400Nm
EATB85/95	≤1000Nm
EATB120/128	≤1000Nm



2. Copper brazing link

Clean weld surface, brush on the chlorate brazing flux, using 40-50 silver-based rod for welding, the maximum temperature does not exceed 650 ℃. Cooling water into the water-side, and in the vicinity of welding department to impose an appropriate cooling method prevents the temperature is too high, and the refrigerant-side injection with chlorine to oxidation.



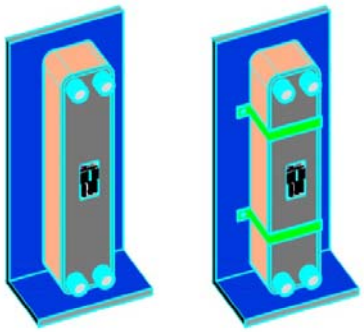
3. Bolt Fastening

In order to avoid excessive torque lead to bolt come off and the back cover plate deformation, using the measuring wrench according to the data listed on the table to fasten the bolt.

Blot	M6	¼"	M8	M10	M12
Torque	≤10Nm	≤12Nm	≤15Nm	≤18Nm	≤22Nm

Installation

Please refer to nameplate's connected tube sketch and installation drawing, Moreover, customer should configure a connected tube accurately, and install brazed plate heat exchanger vertically.



If the pipeline has vibration, longer pipe and higher thermal expansion, which will affect brazed plate heat exchanger. You'd better consider adopting the following devices: install rubber pad between brazed plate heat exchanger and bracket; compressor with shock absorber, anb use corrugated pipe or other damping devices when straight pipe is longer.

Suitable Medium:

* Any refrigerants except ammonia and chlorine

* water, vapor

* oil, Organie solvents, Gas