Note

* The correct connection direction, the system piping and heat exchanger connected can not have tangential force to prevent leading breakage, which should be used less force, vibration reduction measures.

* Water quality should be clean and no fouling, and take control of the chloride ion content can not be too high. You'd better be careful when using bad cooling water. Pollutants such as sulfuric acid and sulfur oxides will increase chlorine corrosion. Usually, PH value should between 7 to 9, higher PH value may lead to scaling, even corrosion.

* Filter, the mesh size between 0.5~1.5mm of decontamination device could be installed in the cooling water circuit in front of water pump, the mesh size depend on water quality and protection degree.

* You'd better consider anti-freezing phenmenon which will cause serious damage to the product, and ultimately lead to compressor failure.

* This produce should be installed upright.

Alecoil Warranty QR Code

www.alecoil.com/warranty
support@alecoil.com
(800)958-1809
(8:00 am to 7:00 pm PST), Monday to Friday

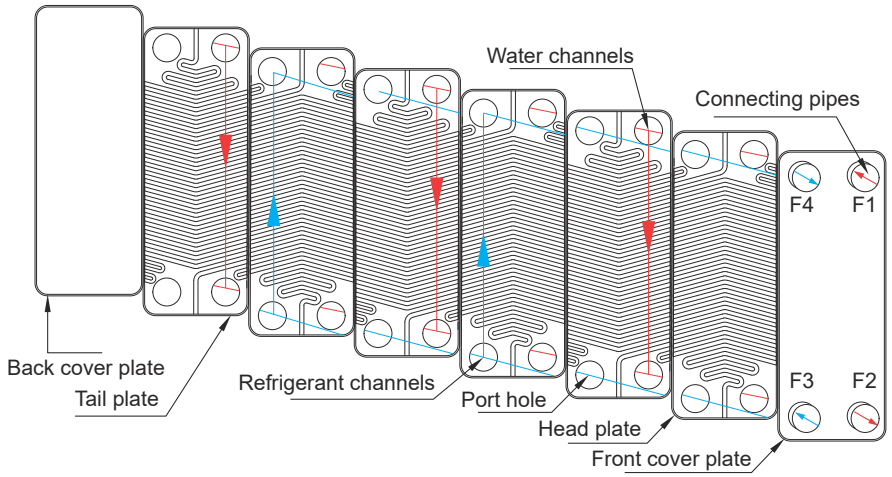
ALECOIL
Heat Transfer Coil

Brazed Plate Heat Exchanger
Installation & User Manual



Please read the manual carefully before the installation.
If you need more support, feel free to contact us.

Internal Schematic



Features

Compact Structure: adopt thin stainless steel, high heat transfer factors.

Reliability: adopt 316L and copper as well as high quality brazing materials. Endure high pressure and temperature. Long life and no maintenance need.

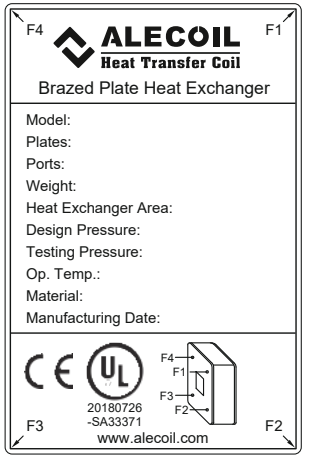
Reduce Water Require: with the high heat transfer efficiency, only needs 1/3 water usage compare to shell and tube exchanger under same condition.

Lightly: Only 20-30% weight compare to shell and tube heat exchanger and reduce the logistics cost.

Low Fouling Factors: high disorderly flow lower the fouling condition, reduce the maintain.

Name Plate

There are some specifications and connection positions on the nameplate.



Name Plate

Suitable Medium

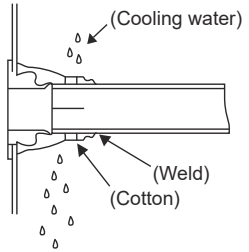
* Any refrigerants except ammonia and chlorine
* Water, Vapor
* Oil
* Organic solvents
* Gas

Connect Method

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.

Model	Torque
FHC014	≤ 170 Nm
FHC028	≤ 400 Nm
FHC030B	≤ 400 Nm

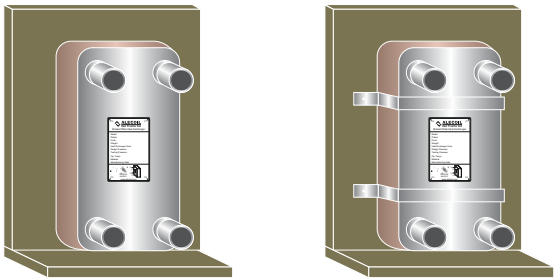


2.Copper Brazing Link

Clean weld surface, brush on the chlorate brazing flux, using 40-50 silver-based rod for welding, the maximum temperature does not exceed 1202°F. 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.

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, and use corrugated pipe or other damping devices when straight pipe is longer.

Insulation

*This product should be insulated in using (evaporator).