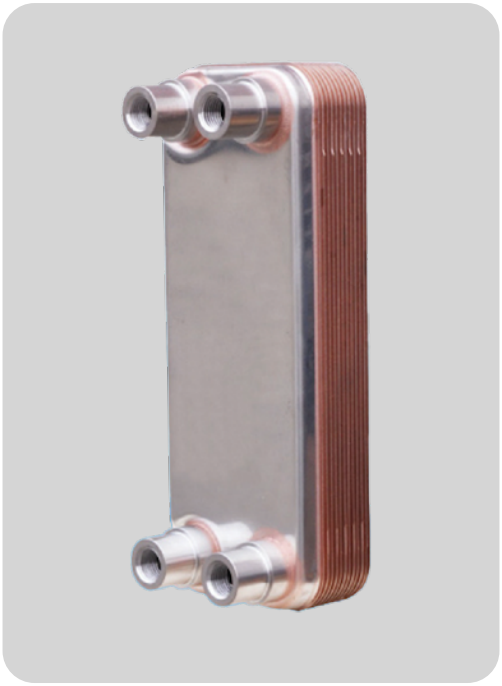
HB10A

Design Principle

HFM compact plate pack of brazed plate heat exchanger is vacuum brazed together with copper or nickel. Compared with gasketed plate heat exchanger, brazed plate heat exchanger can endure high temperature of 225°C, pressure up to 45Mpa.
HFM brazed plate heat exchanger consists of a number of 0.4mm thin plates which transfer heat high efficiently.
In the one pass solution design, medium flow rate can be up to 8m³/h. All 4 connections are on the front side, which means easy pipe and service work.
The plate pack, assembled with two end plates and connections, is vacuum brazed at extremely high temperatures providing a permanently sealed heat exchanger. The final result is a strong and compact plate heat exchanger with extremely high heat transmissions. The high heat transmission comes from the main pattern which is designed to create a turbulent flow.



Recommended Applications

HB10A brazed plate heat exchanger covers refrigeration capacity ranging from 4 to 30KW. It is usually been used for wall mounted space heaters, heating water supply, low temperature environment testing equipment and domestic water heating in the regions of centralized heat-supply.

Technical Information

Thickness(mm)	Weight(kg)
9+2.3N	0.7+0.06N

Standard Materials
- Flow plates and connections: AISI 316/ AISI304
- End plates: AISI 304
- Connection: AISI 304/ AISI316
- Brazing material:

Copper, Nickel or Stainless steel

Design Temperature:
- Copper brazed: -160~225°C
- Nickel brazed: -160~250°C
- Stainless steel brazed: -196~225°C

Design Pressure:
- Copper brazed: 45 Bar
- Nickel brazed: 15 Bar
- Stainless steel brazed: 16 Bar

Connections:
- 4" thread BSP/ NPT
- 4" female thread BSP/ NPT
- 4” pipe

Other connections available on request.

Data Required for Correct Quotation

- Types of Media
- Working Pressure
- Pressure Loss
- Thermodynamic properties
- Temperatures
- Flow rates

Above data determines the choice of heat exchanger.