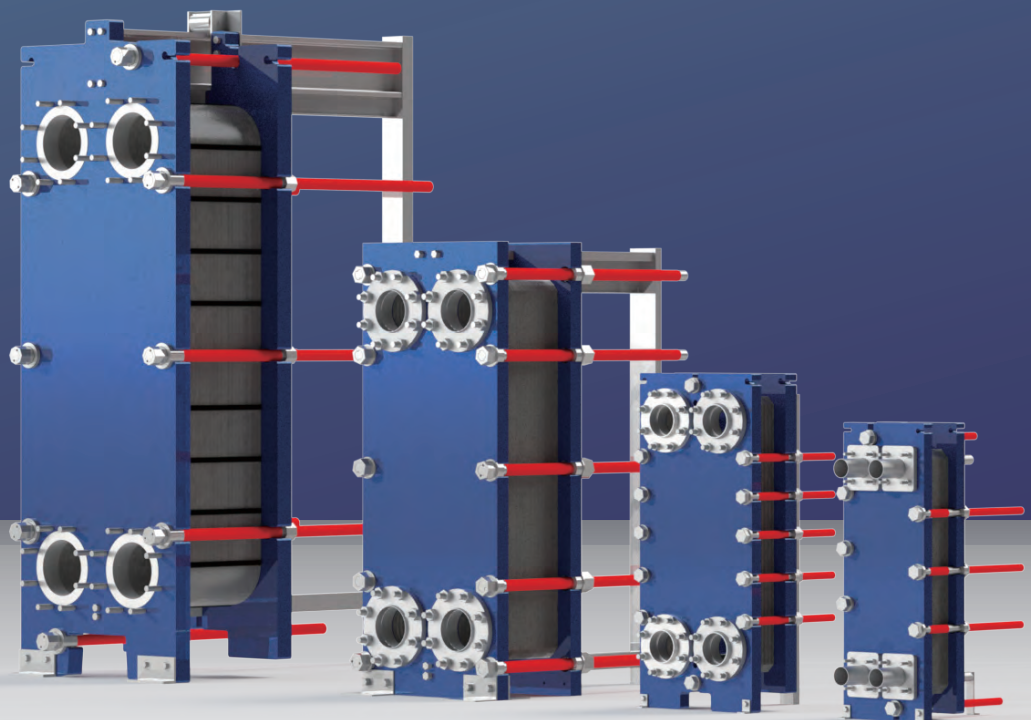


SEMI-WELD PLATE HEAT EXCHANGER



What is Semi-weld plate heat exchanger?

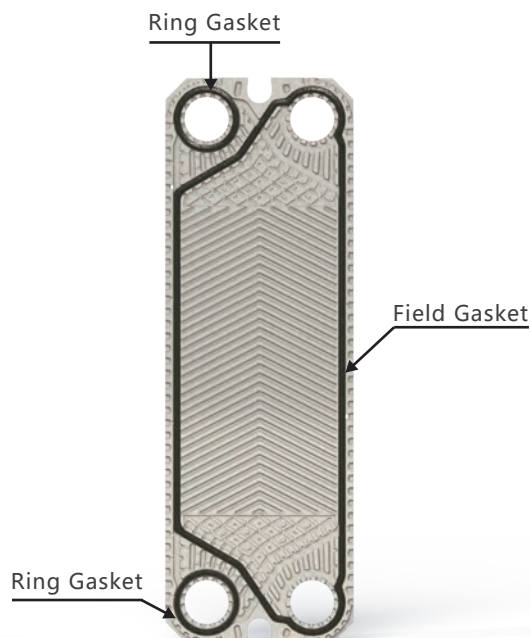
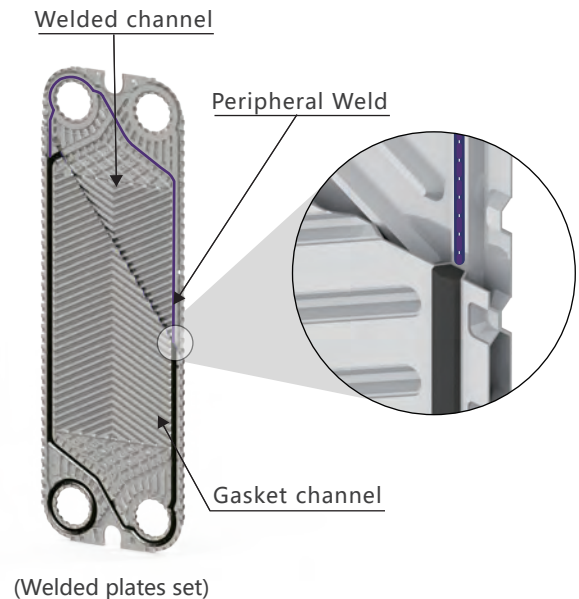
A semi-welded PHE is a specialized type of plate heat exchanger (PHE) that features pairs of welded plates that form sealed channels for one fluid, while the other fluid flows between these welded pairs and is sealed with gaskets.

Why semi-weld?

- Temperature range of -45°C to 150°C
- Withstand Pressures up to 25 bar.
- They are particularly well-suited for ammonia applications.

Key Features

- High COP Efficiency
- Continuous Turbulent Flow
- Low Refrigerant Charge
- Eco-Friendly Design
- Compact & Lightweight
- Durable & Freeze-Resistant fatigue resistant
- Cost-Effective & compact size & high efficiency



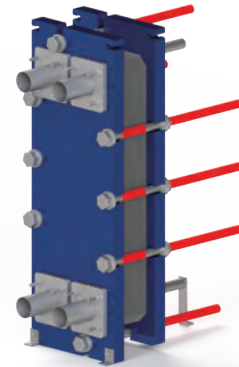
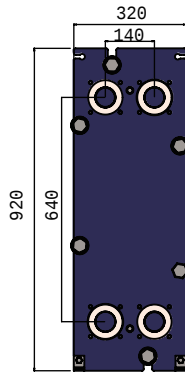
Gasket Material:

- NBR, EPDM, VITON on Gasket side
- CR (Chloroprene Rubber) on Weld side

Plate Material:

- 304, 316L stainless
- Ti

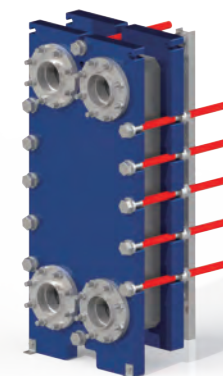
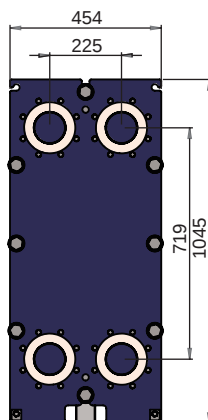
BH60HW



Max pressure (bar): Gasket side 16 / Weld side 25
Max flowrate (m³/h): 54
Free channel (mm): 3
Plate Area (m²): 0.15
Port Size (mm): DN50
Refrigeration duties: 10-70 RT/35-250 kW

Plate thickness (mm): 0.6/0.7
Plate material: SS304, 316L,Ti
Field Gasket material: NBR, EPDM, VITON (FKM)
Ring Gasket: CR/ EPDM
Gasket type: Clip-on
Flow: Parallel

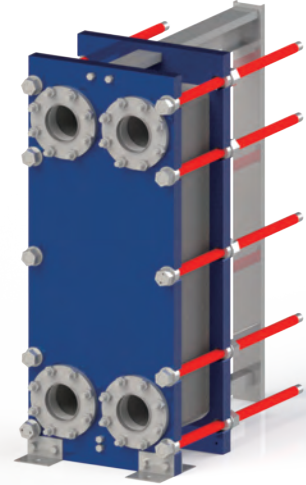
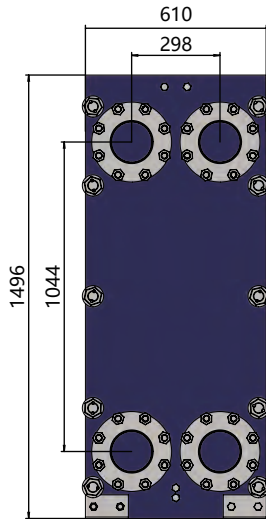
BH100BW



Max pressure (bar): Gasket side 16 / Weld side 25
Max flowrate (m³/h): 180
Free channel (mm): 2.5
Plate Area (m²): 0.24
Port Size (mm): DN100
Refrigeration duties: 50-250 RT/175-875 kW

Plate thickness (mm): 0.6 /0.7
Plate material: SS304, 316,Ti
Field Gasket material: NBR, EPDM, VITON (FKM)
Ring Gasket: CR/ EPDM
Gasket type: Clip-on
Flow: Parallel

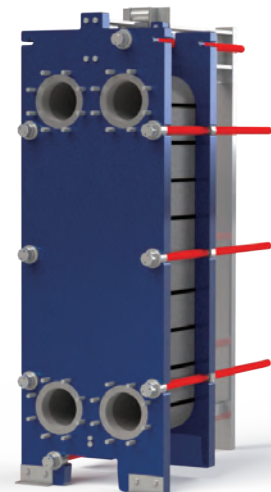
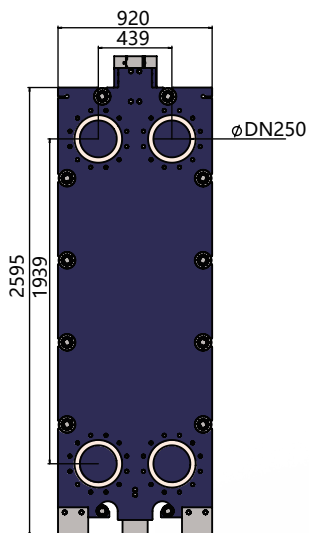
BH150BW



Max pressure (bar): Gasket side 16 / Weld side 25
 Max flowrate (m³/h): 290
 Free channel (mm): 2.5
 Plate Area (m²): 0.47
 Port Size (mm): DN150
 Refrigeration: 100-450 RT/350-1575 kW

Plate thickness (mm): 0.6/0.7
 Plate material: SS304, 316L, Ti
 Field Gasket material: NBR, EPDM, VITON (FKM)
 Ring Gasket: CR, EPDM
 Gasket type: Clip-on
 Flow: Parallel

BH200HW



Max pressure (bar): Gasket side 16 / Weld side 25
 Max flowrate (m³/h): 2430
 Free channel (mm): 4.1
 Plate Area (m²): 0.83
 Port Size (mm): DN200

Plate thickness (mm): 0.6/0.7
 Plate material: SS304, 316L, Ti
 Field Gasket material: NBR, EPDM, VITON (FKM)
 Ring Gasket: CR, EPDM
 Gasket type: Clip-on
 Flow: Parallel