

Kelvion K°Bloc | Fully Welded Plate Heat Exchanger

FOCUSED ON THE MOST STRINGENT REQUIREMENTS



DESIGN & FUNCTION

The K°Bloc is a fully-welded plate heat exchanger that is used above all in the oil and gas industry, the chemical industry as well as in the petrochemical sector.

The solidly bolted frame consists of four columns, top and bottom heads as well as four side panels. These side panels can be detached swiftly and allow free access all the way around for the thorough and easy cleaning of the fully-welded plate package.

Two different plate corrugations are available. Chevron corrugation enables effective heat transfer. In contrast, double dimple corrugation is the first choice for highly viscous or solid containing media as well as for vacuum applications.

ADVANTAGES

- ▶ **DESIGNED AND MADE IN GERMANY**
- ▶ **UNIQUE COMB TECHNOLOGY**
- ▶ **REINFORCED CORNER DESIGN**
- ▶ **UP TO 50 BARG | 400 °C
725 PSI | 750 °F**

DIMENSIONS

| TYPE | PRESSURE VESSEL | | | | CONNECTION | |
|--------------|-----------------|-------------|-------------|--------|------------|--------|
| | FOOTPRINT | | MAX. HEIGHT | | MAX. | |
| | [mm] | [inch] | [mm] | [inch] | [mm] | [inch] |
| BT20 | 430x430 | 16.5"x16.5" | 798 | 31.4" | DN 150 | 6" |
| BT30 | 520x520 | 20.5"x20.5" | 1,439 | 56.7" | DN 250 | 10" |
| BT40 | 660x660 | 26.0"x26.0" | 1,764 | 69.4" | DN 300 | 12" |
| BT50 | 780x780 | 30.7"x30.7" | 2,116 | 83.3" | DN 400 | 16" |
| BT75 | 1,190x1,190 | 46.9"x46.9" | 3,319 | 130.7" | DN 600 | 24" |
| BT120 | 1,850x1,850 | 72.8"x72.8" | 3,681 | 144.9" | DN 900 | 36" |



PLATE DESIGN

CHEVRON CORRUGATION

- ▶ High efficiency and pressure resistance
- ▶ Best compromise between high heat recovery services and CAPEX
- ▶ Fully accessible for cleaning by hydroblasting
- ▶ 5 mm (0.20") pressing depth

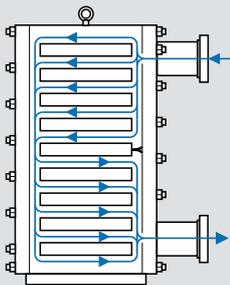


DOUBLE DIMPLE CORRUGATION

- ▶ For high viscous media or solids/fibres containing fluids
- ▶ Best compromise between pressure drop and heat recovery when dealing with severe fouling media
- ▶ For applications with low pressure drop requirements
- ▶ 5 mm (0.20") clear gap on both sides

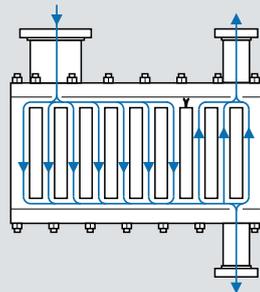


APPLICATION OPTIONS



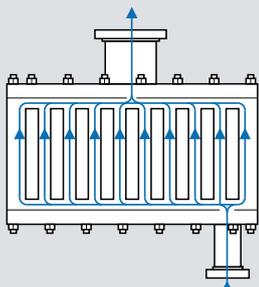
VERTICAL

for liquid-liquid as well as multi pass condensers and evaporators



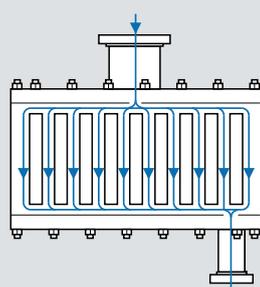
HORIZONTAL

for separation or condensation with inert gas



HORIZONTAL

for evaporation



HORIZONTAL

for condensation

PLATE MATERIALS

| TYPE | AISI | TRADE NAME | |
|---------------|-----------------|-------------------|---|
| 1.4306 | 304L | | ✓ |
| 1.4404 | 316L | | ☑ |
| 1.4547 | S31254 | SMO 254 | ☑ |
| 1.4539 | 904L | | ✓ |
| 2.4068 | N02201 | Nickel 201 | ✓ |
| 2.4602 | N06022 | Alloy C22 | ✓ |
| 2.4675 | N06200 | Alloy C2000 | ✓ |
| 2.4819 | N10276 | Alloy C276 | ☑ |
| 3.7025 | B265 Gr1 | Titan Gr.1 | ☑ |

Our K*Bloc is available in various materials for a wide range of different applications:

Standard plate materials

Further plate materials

Other materials are available upon request