

## Kelvion K°Bloc | Fully Welded Plate Heat Exchanger

# FOCUSED ON THE MOST STRINGENT REQUIREMENTS



## APPLICATION & BENEFITS

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

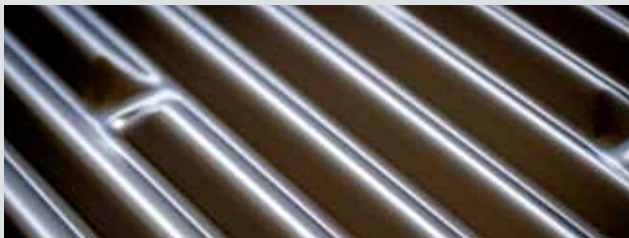
TYPE	PRESSURE VESSEL				CONNECTION	
	FOOTPRINT		MAX. HEIGHT		MAX.	
	[mm]	[inch]	[mm]	[inch]	[mm]	[inch]
<b>BT20</b>	430x430	16.5"x16.5"	798	31.4"	DN 150	6"
<b>BT30</b>	520x520	20.5"x20.5"	1,439	56.7"	DN 250	10"
<b>BT40</b>	660x660	26.0"x26.0"	1,764	69.4"	DN 300	12"
<b>BT50</b>	780x780	30.7"x30.7"	2,116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

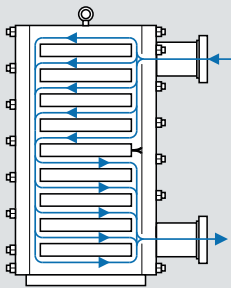


### DOUBLE DIMPLE CORRUGATION

- ▶ 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

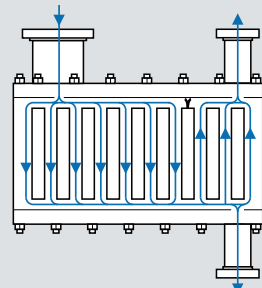


## APPLICATION OPTIONS



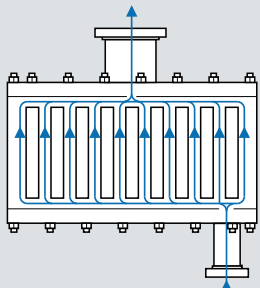
#### VERTICAL

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



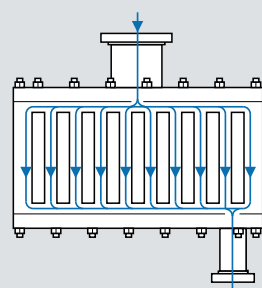
#### HORIZONTAL

for separation or condensation with inert gas



#### HORIZONTAL

for evaporation



#### HORIZONTAL

for condensation

## PLATE MATERIALS

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

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