GBH-HP | Brazed Plate Heat Exchangers

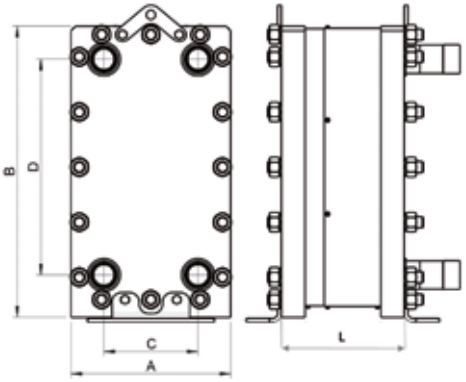
HIGH PRESSURE BRAZED PLATE HEAT EXCHANGERS

DESIGN & FUNCTION

For the highest mechanical and thermal requirements. The GBH-HP-Series are brazed plate heat exchangers with a pressure frame. They are designed for transcritical and subcritical CO_2 systems and industrial applications with system pressures up to 140 bar.

ADVANTAGES

- HIGH PERMANENT PRESSURE RESISTANCE
- LONG LIFETIME
- LOW INVESTMENT COSTS
- SOLID FRAME CONSTRUCTION
- CO_2 IN A TRANSCRITICAL AREA



ALWAYS A SUITABLE SOLUTION AT HAND

The brazed plate heat exchangers from Kelvion offer tailor-made solutions for the widest range of application.
We configure the most economically favorable model for you from the wide range of available sizes and the numerous optional features. We adapt this with individually positioned connections to meet your specific requirements.

APPLICATION EXAMPLES:

- CO_2 heat pumps
- CO_2 supermarket cooling
- Oil cooling
- Industrial heating and cooling
- Power plant technology

Type	Pressure	Dimensions				L-Dimension*	Weight*	Volume	Max. number of plates
	bar	A [mm]	B [mm]	C [mm]	D [mm]	[mm]	[kg]	(Litre/ Channel)	
GBH-HP 400H	140/140	195	410	73	281	74.40+2.35xN	44.25+0.290xN	0.065	100
GBH-HP-DW 400H	120/120	195	410	73	281	74.40+2.35xN	44.25+0.290xN	0.065	100
GBH-HP 500H	140/140	195	600	73	478	72.00+2.28xN	64.25+0.330xN	0.100	120
GBH-HP-DW 500H	140/140	195	600	73	478	74.30+2.30xN	64.65+0.410xN	0.100	120
GBH-HP 700L	140/130	340	621	200	460	113.40+2.34xN	185.45+0.700xN	0.230	150
GBH-HP 700M	140/130	340	621	200	460	113.40+2.34xN	185.45+0.700xN	0.230	150
GBH-HP 1000H	130/130	500	1050	237	723	153.80+2.33xN	611.40+1.490xN	0.600	360
Also available as an advanced evaporator with a special Delta Injection™ distribution system for the refrigerant inlet									
GBH-HP 500H-AE	140/140	195	600	73	478	72.00+2.28xN	64.25+0.330xN	0.100	120
GBH-HP 700M-AE	140/130	340	621	200	460	113.40+2.34xN	185.45+0.700xN	0.230	150
GBH-HP 1000H-AE	130/130	500	1050	237	723	153.80+2.33xN	611.40+1.490xN	0.600	360
Also available with Distribution Technology EQ-Pipe									
GBH-HP 400-EQ	140/140	195	410	73	281	74.40+2.35xN	44.25+0.290xN	0.100	100
GBH-HP-DW 400H-EQ	120/120	195	410	73	281	74.40+2.35xN	44.25+0.290xN	0.100	100
GBH-HP 500H-EQ	140/140	195	600	73	478	72.00+2.28xN	64.25+0.330xN	0.100	120
GBH-HP-DW 500H-EQ	140/140	195	600	73	478	74.30+2.30xN	64.65+0.410xN	0.100	120
GBH-HP 700M-EQ	140/130	340	621	200	460	113.40+2.34xN	185.45+0.700xN	0.230	150
GBH-HP 1000H-EQ	130/130	500	1050	237	723	153.80+2.33xN	611.40+1.490xN	0.600	360

*N = number of plates

SPECIFICATIONS

- Plate Material: Stainless steel AISI 316L / 1.4404
- Brazing Material: Copper

FEATURES

- Safety Chamber™ (model 700, 1000)
- Delta Injection™ (model 500, 700M, 1000)
- Full-Flow System™ (model 400, 500; except GBH-HP-DW 500H)
- Double-Wall-Safty-heat exchanger (type GBH-HP-DW 400 H, GBH-HP-DW 500 H)
- Distribution technology EQ-Pipe (model 400, 500, 700, 1000)

PERFORMANCE LIMITS

- Working temperature: -40°C to +150°C
- Working pressure: up to 140 bar

APPROVAL

- PED (CE)

We need following information to select your optimum heat exchanger

- Required temperature range
- Flow rates or required heat load
- Maximal permitted pressure drop
- Required working conditions

www.kelvion.com