

GBH-Series | Brazed Plate Heat Exchangers

KEEPING COOL. EVEN AT HIGH PRESSURES.



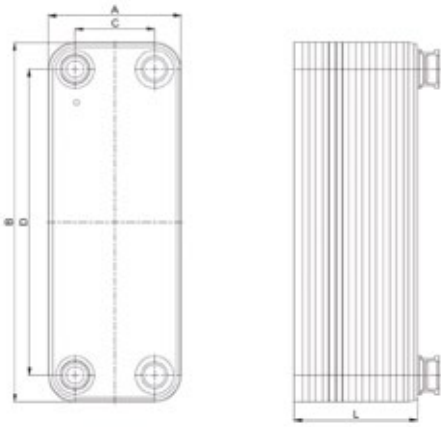
DESIGN & FUNCTION

These brazed plate heat exchangers were specifically designed for the efficient and environmentally friendly refrigerant R410a. At pressures up to 45 bar/653 psi, the heat exchangers of the GBH-Series offer the widest variety and flexibility in terms of size, different connections, flow arrangements and accessories.

Equipped with the proven technical features such as Safety Chamber™, Delta Injection™ and Full Flow System™ heat exchangers of the GBH-Series are ideal for a variety of high-pressure applications in the fields of industry and refrigeration/air-conditioning to serve the highest customer requirements with its diversity.

ADVANTAGES

- ▶ HIGH PRESSURE RESISTANCE
- ▶ COMPACT DESIGN
- ▶ WIDE RANGE OF APPLICATIONS
- ▶ ROBUST CONSTRUCTION



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:

- ▶ Heat pumps for heating and hot water
- ▶ Evaporators in air-conditioning systems
- ▶ Process cooling
- ▶ Economizer
- ▶ Subcoolers and condensers

Type	Pressure bar	Dimensions				L-Dimension* [mm]	Weight* [kg]	Volume (Litre/Channel)	Max. number of plates
		A [mm]	B [mm]	C [mm]	D [mm]				
GBH 100	45	74	204	40	170	8,00+2,23xN	0,65+0,050xN	0,025	50
GBH 200	45	90	231	43	182	10,00+2,24xN	0,85+0,06xN	0,030	50
GBH 220	45	90	328	43	279	10,00+2,25xN	1,10+0,09xN	0,046	50
GBH 240	45	90	464	43	415	10,00+2,24xN	1,50+0,13xN	0,070	50
GBH 300	45	124	173	73	120	12,20+2,24xN	0,95+0,06xN	0,030	50
GBH 400	45	124	335	73	281	12,30+2,25xN	1,60+0,12xN	0,065	100
GBH 500	45	124	532	73	478	10,00+2,23xN	2,25+0,20xN	0,100	100
GBH 600L	45	250	386	162	307	13,40+2,27xN	7,80+0,295xN	0,158	150
GBH 700L/M	45	271	532	200	460	10,90+2,29xN	7,05+0,47xN	0,230	150
GBH 800	45	271	532	161	421	13,60+2,34xN	10,70+0,50xN	0,221	260
GBH 900	45	271	802	161	690	11,30+2,31xN	13,60+0,80xN	0,399	260
GBH 1000H/M	45	386	875	237	723	20,80+2,33xN	29,20+1,15xN	0,600	360

Also available as an advanced evaporator with a special "Delta Injection"™ distribution system for the refrigerant inlet.

GBH 400-AE	45	124	335	73	281	12,30+2,25xN	1,60+0,12xN	0,065	100
GBH 500-AE	45	124	532	73	478	10,00+2,23xN	2,25+0,20xN	0,100	100
GBH 700M-AE	45	271	532	200	460	10,90+2,29xN	7,05+0,47xN	0,230	150
GBH 800-AE	45	271	532	161	421	13,60+2,34xN	10,70+0,50xN	0,221	260
GBH 900-AE	45	271	802	161	690	11,30+2,31xN	13,60+0,80xN	0,399	260
GBH 1000H-AE	45	386	875	237	723	20,80+2,33xN	29,20+1,15xN	0,600	360

*N = number of plates

SPECIFICATIONS

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

FEATURES

- ▶ Safety Chamber™ (model 600L, 700, 800, 900, 1000)
- ▶ Delta Injection™ (model 400, 500, 700M, 800, 900, 1000H)
- ▶ Full Flow System™ (model 100, 200, 220, 240, 300, 400, 500)

PERFORMANCE LIMITS

- ▶ Working temperature: -196°C to +200°C/-321°F to +392°F
- ▶ Working pressure: up to 45 bar/ 653 psi

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

The specifications contained in this brochure are intended only to serve the non-binding description of our products and services and are not subject to guarantee. Binding specifications, especially pertaining to performance data and suitability for specific operating purposes, are dependent upon the individual circumstances at the operation location and can, therefore, only be made in terms of precise requests.