

# Kelvion



## Brazed Plate Heat Exchangers

# GBH SERIES— COPPER BRAZED PHE



### Brazed Plate Heat Exchangers

**Safety Chamber™**—Takes the stress from thermal shock and pressure pulsations. When overloaded, encapsulated contact points around the ports absorb the force and stretch, thereby protecting against internal leaks.

**Expansion Metering Distributor™**—A Direct Expansion Metering Distributor provides precise metering of refrigerant to the channel plates for a wide range of operating conditions.

**Full-Flow System™**—This unique flow system ensures continuous flow around the port area to prevent freezing and feeds the working fluid equally.

**Rolled Edge Lock System™**—This feature provides extended and larger contact points, providing stronger brazed joints between the plates.

### GBH Application Versatility

- Heat Pump Heating and Hot Water Production
- Evaporators and Air Conditioning
- Process Cooling Systems
- Refrigerant Evaporators
- Sub-Coolers and Condensers
- Other Refrigerant-to-Liquid and High-Pressure Applications
- Liquid-to-Liquid Applications

The GBH Series copper brazed plate heat exchanger is designed to operate consistently up to 650 psig while offering a maximum variety of circuit possibilities. Operating with the non-ozone depleting refrigerant R410A the GBH product range offers an optimized corrugation pattern in the wave fields of the heat exchanger plates as well as further improvements to the inlet and outlet openings.

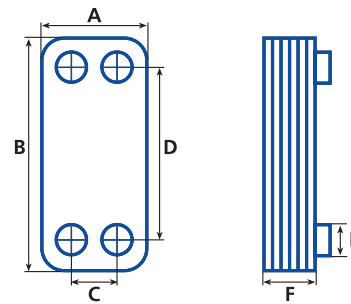
**GBH Series:** Technical data

**Plate material:** AISI 316 / 1.4401 stainless steel

**Braze material:** Copper

**Performance limits:** Up to 45 bars at 150°C and 40 bars at 200°C

**Third party approval:** UL listed (as noted) optional ASME, CRN, CSA, PED (CE), KHK, other on request



Standard Dimensions Inches (mm)											
Model	Adv. Evaporator	A	B	C	D	E	F	Mass (kg)	Volume (Litres/channel)	Max. flow rate water (m <sup>3</sup> /h)	Max. Plate Count
GBH 100	–	74	204	40	170	15	8.0+2.23xN*	0.70+0.050xN	0.025	4	50
GBH 200**	–	90	231	43	182	20	10.0+2.24xN	1.10+0.060xN	0.030	6	50
GBH 220**	–	90	328	43	279	20	10.0+2.22xN	1.30+0.080xN	0.046	6	50
GBH 240**	–	90	464	43	415	20	10.0+2.20xN	2.04+0.140xN	0.070	6	50
GBH 300	–	124	173	73	120	25	12.3+2.22xN	1.20+0.060xN	0.030	10	50
GBH 400**	AE	124	335	73	281	25	11.8+2.24xN	1.60+0.130xN	0.065	10	100
GBH 500**	AE	124	532	73	478	25	9.5+2.23xN	1.76+0.210xN	0.100	10	100
GBH 700L	–	271	532	200	460	40	11.0+2.29xN	9.60+0.540xN	0.230	27	150
GBH 700M	AE	271	532	200	460	40	11.0+2.25xN	9.60+0.540xN	0.230	27	150
GBH 800	AE	271	532	161	421	65	13.8+2.34xN	10.0+0.540xN	0.221	70	260
GBH 900	AE	271	802	161	690	65	11.3+2.31xN	11.5+0.800xN	0.399	70	260
GBH 1000	AE	386	875	237	723	100	20.3+2.31xN	39.5+1.250xN	0.600	160	360

\* N = number of plates

\*\* = UL listed

The specifications contained in this printing 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.

**About Kelvion:**

Kelvion provides one of the most extensive product portfolios in the heat exchange market worldwide for a wide range of applications. Kelvion manufactures plate, shell and tube, air-cooled heat exchangers, air filter systems, synthetic fillings for numerous areas of application, wet cooling towers and dry cooling systems, as well as air-conditioning facilities. As a result, Kelvion provides reliable and comprehensive coverage of the entire spectrum for heat exchange.

