

## GVH-HP | Brazed Plate Heat Exchangers

# HIGH PRESSURE – ALSO IN STAINLESS STEEL



## DESIGN & FUNCTION

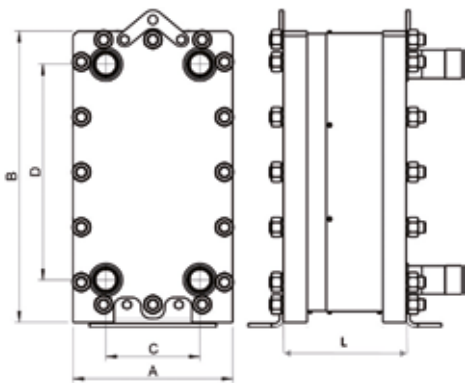
With the brazed plate heat exchangers of the GVH-HP-Series Kelvion offers the ideal solution for industrial applications with high operating pressures. Vacnox, our especially developed, free of non-ferrous metals solder material is used, to meet the increased demands in relation to corrosion resistance, high temperature and pressure requirements.

Thanks to this new, unique and revolutionary technology for the robust connection of stainless steel plates both a compact design and high corrosion resistance can be achieved. A pressure frame ensures maximum safety in mechanical and thermal requirements at pressures up to 46 bar/667 psi. The product range includes connection diameters from DN15 to DN100.

Copper-free, brazed plate heat exchangers of the GVH-HP-Series use the knowledge transfer within Kelvion and combine the advantages of brazed and gasketed heat exchangers.

## ADVANTAGES

- ▶ FREE OF NON-FERROUS METALS
- ▶ CORROSION RESISTANT
- ▶ HIGH THERMAL EFFICIENCY
- ▶ HIGH OPERATING PRESSURES



### 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:

- ▶ Ammonia refrigeration plants
- ▶ Evaporators and condensers in cascade systems

Type	Pressure bar	Dimensions				L-Dimension* [mm]	Weight* [kg]	Volume (Litres/ Channel)	Max. number of plates
		A [mm]	B [mm]	C [mm]	D [mm]				
GVH-HP 500H	46	195	600	73	478	74.30+2.28xN	64.60+0.330xN	0.100	150
GVH-HP 700L	46	340	621	200	460	118.20+2.34xN	188.80+0.700xN	0.230	150
GVH-HP 700M	46	340	621	200	460	118.20+2.34xN	188.80+0.700xN	0.230	150
GVH-HP 1000L	46/30	500	1050	237	723	156.10+2.33xN	612.85+1.490xN	0.466/0.733	200

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

GVH-HP 500H-AE	46	195	600	73	478	74.30+2.28xN	64.60+0.330xN	0.100	150
GVH-HP 700M-AE	46	340	621	200	460	118.20+2.34xN	188.80+0.700xN	0.230	150

\*N = number of plates

### SPECIFICATIONS

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

### FEATURES

- ▶ Safety Chamber™ (model 700, 1000)
- ▶ Delta Injection™ (model 500, 700M)
- ▶ Full Flow System™ (model 500)
- ▶ Distribution technology EQ-Pipe (model 500, 700)

### PERFORMANCE LIMITS

- ▶ Working temperature: -40°C to +150°C / -40°F to +302°F
- ▶ Working pressure: up to 46 bar/667 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.