

GNS-Series | Brazed Plate Heat Exchangers

THE IDEAL ALTERNATIVE WHEN COPPER IS NO LONGER ENOUGH



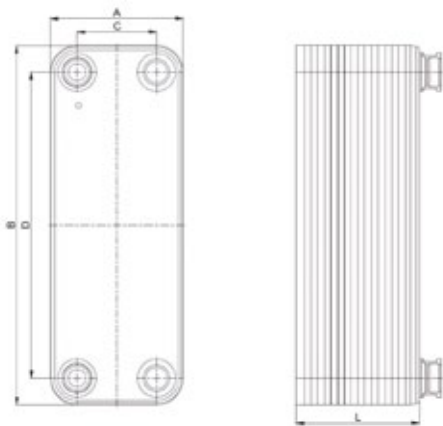
DESIGN & FUNCTION

Whenever the resistance of copper is not enough, nickel as brazing material is chosen. The units of the GNS-Series offer all the advantages of a brazed plate heat exchanger, but they are essentially more stable against corrosive medias such as ammonia, deionised water, sulphides and sulphates. But not every nickel-brazing is the same: only around 75% is made of pure nickel, the remaining 25% is our secret – and your benefit. Also units of the GNS-Series have the proven technical features like Safety Chamber™, Delta Injection™ and Full Flow System™ available.

Thus, the products of the GNS-Series serve with its wide range of applications up to 200°C/392°F and 16 bar/232 psi the demands of the market.

ADVANTAGES

- ▶ HIGH CORROSION RESISTANCE
- ▶ COMPACT DESIGN
- ▶ WIDE RANGE OF APPLICATIONS
- ▶ LOW INVESTMENT COSTS



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:

- ▶ Laser cooling
- ▶ semiconductor industry
- ▶ applications with deionised water
- ▶ ammonia systems
- ▶ corrosive fluids

Type	Pressure bar	Dimensions				L-Dimension* [mm]	Weight* [kg]	Volume (Litres/ Channel)	Max. number of plates
		A [mm]	B [mm]	C [mm]	D [mm]				
GNS 100	16	74	204	40	170	L=10,20+2,23xN	W=0,70+0,050xN	0.025	50
GNS 200	16	90	231	43	182	L=12,20+2,24xN	W=0,90+0,060xN	0.030	50
GNS 220	16	90	328	43	279	L=12,30+2,25xN	W=1,20+0,090xN	0.046	50
GNS 240	16	90	464	43	415	L=12,20+2,24xN	W=1,65+0,130xN	0.070	50
GNS 300	16	124	173	73	120	L=12,20+2,24xN	W=0,95+0,060xN	0.030	50
GNS 400	16	124	335	73	281	L=12,30+2,25xN	W=1,60+0,120xN	0.065	100
GNS 500	16	124	532	73	478	L=12,30+2,28xN	W=2,50+0,220xN	0.100	100
GNS 700L	16	271	532	200	460	L=13,20+2,34xN	W=9,80+0,530xN	0.230	150
GNS 700M	16	271	532	200	460	L=13,20+2,34xN	W=9,80+0,530xN	0.230	150
GNS 800	16	271	532	161	421	L=13,60+2,34xN	W=10,70+0,500xN	0.221	200

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

GNS 400-AE	16	124	335	73	281	L=12,30+2,25xN	W=1,60+0,120xN	0.065	100
GNS 500-AE	16	124	532	73	478	L=12,30+2,28xN	W=2,50+0,220xN	0.100	100
GNS 700M-AE	16	271	532	200	460	L=13,20+2,34xN	W=9,80+0,530xN	0.230	150
GNS 800-AE	16	271	532	161	421	L=13,60+2,34xN	W=10,70+0,500xN	0.221	200

*N = number of plates

SPECIFICATIONS

- ▶ Plate Material: Stainless steel AISI 316L / 1.4404
- ▶ Brazing Material: Nickel-based-alloy

FEATURES

- ▶ Safety Chamber™ (model 700, 800)
- ▶ Delta Injection™ (model 400, 500, 700M, 800)
- ▶ 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 16 bar / 232 ps

APPROVAL

- ▶ PED (CE)
- ▶ ASME VIII-1

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.