



GNS-Series

THE IDEAL ALTERNATIVE WHEN COPPER IS NO LONGER ENOUGH



GNS-Series

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 media 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.

Always a suitable solution at hand

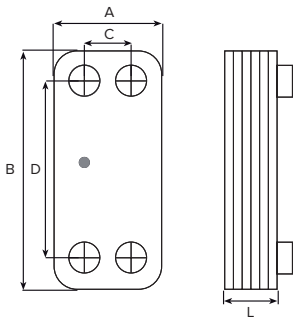
The brazed plate heat exchangers from Kelvion offer tailor-made solutions for the widest range of application. We configure the most economically favorable model for you from the wide range of available sizes and the numerous optional features. We adapt this with individually positioned connections to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

Example:

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

Your advantages at a glance:

- high corrosion resistance
- compact design
- wide range of applications
- low investment costs



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

Type	(bar)	Standard dimensions (mm)				(mm)	(kg)	(Litres/Channel)	
Plate heat exchanger	Pressure	A	B	C	D	L-Dimension N = number of plates	Mass N = number of plates	Volume	Max. number of plates
GNS 100M	16	74	204	40	170	10.23+2.23xN	0.70+0.050xN	0.025	50
GNS 200H	16	90	231	43	182	12.24+2.24xN	1.10+0.060xN	0.030	50
GNS 220H	16	90	328	43	279	12.20+2.22xN	1.28+0.080xN	0.046	50
GNS 240H	16	90	464	43	415	12.20+2.20xN	2.04+0.139xN	0.070	50
GNS 300H	16	124	173	73	120	12.30+2.22xN	1.20+0.060xN	0.030	50
GNS 400H	16	124	335	73	281	11.80+2.30xN	1.58+0.130xN	0.065	100
GNS 500H	16	124	532	73	478	11.80+2.28xN	2.00+0.240xN	0.100	100
GNS 700L	16	271	532	200	460	13.30+2.34xN	9.60+0.540xN	0.230	150
GNS 700M	16	271	532	200	460	13.30+2.35xN	9.60+0.540xN	0.230	150
GNS 800H	16	271	532	161	421	13.80+2.34xN	10.02+0.540xN	0.221	150
Also available as an advanced evaporator with a special "Delta Injection™" distribution system for the refrigerant inlet.									
GNS 400H-AE	16	124	335	73	281	11.80+2.24xN	1.58+0.130xN	0.065	100
GNS 500H-AE	16	124	532	73	478	11.80+2.28xN	2.00+0.240xN	0.100	100
GNS 700M-AE	16	271	532	200	460	13.30+2.35xN	9.60+0.540xN	0.230	150
GNS 800H-AE	16	271	532	161	421	13.80+2.34xN	10.02+0.540xN	0.221	150

GNS-Series: 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 psi

Approval

- PED (CE)
- ASME VIII-1



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.