

EcoBrazo – Brazed plate heat exchangers

GNS Series: The ideal alternative when copper isn't enough



Copper free plate heat exchangers offer all of the benefits of a standard brazed PHE, but the special brazing material takes care that they are considerably more stable against corrosive media such as ammonia, sulphides and sulphates. Pressure-resistant to 16 bars, from -196°C to +200°C.

Features and benefits



Safety Chamber™

In the event of overloading encapsulated brazing contact points positioned around the nozzles absorb the excess pressure and stress and protect against internal leakage and premature failure.



Delta Injection™

Specially developed for evaporator applications – distributes the refrigerant precisely into the channels to guarantee maximum evaporation performance.



Sturdy plate design

The regular brazed joint at the plate edge guarantees increases heat exchanger stability and improved leakage protection.



Full-Flow System™

Guarantees optimum flow around the nozzles to effectively prevent any „port freezing“.


The GNS Series is optimally suited for:

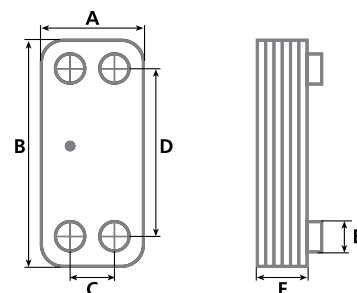
- Laser cooling
- Applications using deionized water
- Ammonia systems
- Demineralised water and corrosive liquids

GNS Series: Specifications

Plate material: AISI 316 / 1.4401 stainless steel
 Braze material: Nickel-basis alloy
 Performance limits: up to 16 bars, -196°C to +200°C
 Certification: PED (CE), TÜV, ASME, UL, CSA, KHK, others on request

Properties:    

Optional:  Extended Corrosion Resistance (XCR Series). The XCR Series by GEA PHE Systems offers improved corrosion resistance thanks to the use of higher-quality stainless steel plate material. Ideally suited for rough operating conditions and chlorine-loaded applications such as swimming pools and water-water heat pumps.



Model		Standard dimensions (mm)						(kg)	(Litres / channel)	(m ³ /h)	
Stainless steel, nickel brazed	Advanced Evaporator AE	A	B	C	D	E	F N = no. of plates	Mass N = no. of plates	Volume	Max. flow rate water	Max. no. of plates
GNS 100	–	74	204	40	170	15	10.23+2.23xN	0.70+0.050xN	0.025	4	50
GNS 200	–	90	231	43	182	20	12.24+2.24xN	1.10+0.060xN	0.030	6	50
GNS 220	–	90	328	43	279	20	12.20+2.22xN	1.30+0.080xN	0.046	6	50
GNS 240	–	90	464	43	415	20	12.20+2.20xN	2.04+0.140xN	0.070	6	50
GNS 300	–	124	173	73	120	25	12.30+2.22xN	1.20+0.060xN	0.030	10	50
GNS 400	AE	124	335	73	281	25	11.80+2.24xN	1.60+0.130xN	0.065	10	100
GNS 500	AE	124	532	73	478	25	11.80+2.28xN	2.00+0.240xN	0.100	10	100
GNS 700L	–	271	532	200	460	40	13.30+2.34xN	9.60+0.540xN	0.230	27	150
GNS 700M	AE	271	532	200	460	40	13.30+2.30xN	9.60+0.540xN	0.230	27	150
GNS 800	AE	271	532	161	421	65	13.8+2.34xN	10.0+0.540xN	0.221	70	150

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.

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