EcoBraze – Brazed plate heat exchangers

GBH Series: Keeping cool – even at high pressures

The GBH Series is designed for pressures of up to 45 bars and is available in an extraordinarily wide range of different models. Designed for the efficient and ozone-friendly refrigerant R410A the GBH Series also offers improved nozzle configurations.

Features and advantages

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 increased heat exchanger stability and improved leakage protection.

Full-Flow System™

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

Your benefits at a glance:

- Heat pumps for heating systems and hot water generation
- Evaporators in air conditioning systems
- Process cooling
- Economizers
- Subcoolers and condensers

GBH Series: Specifications

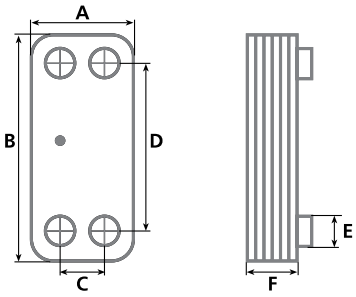
Plate material: AISI 316 / 1.4401 stainless steel

Braze material: Copper

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

Certifications: PED (CE), TÜV, others on request

Properties:



Model	Standard dimensions (mm)								(kg)	(Litres / channel)	(m^3 / h)	
Stainless steel, copper 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
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

GEA Heat Exchangers

GEA PHE Systems

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