GBS Series – Brazed Plate Heat Exchangers

Strong types, variable sizes

You attach great importance to flexible sizes and sophisticated technology? Then the GBS plate heat exchangers from the EcoBraze product line by GEA PHE Systems should be your choice. These brazed all-rounders are ideally suited for applications of any size – pressure-resistant up to 30 bar and up to ±200°C! This brings quality, economic efficiency and excellent thermal performance to your operations.

17 sizes can be used worldwide in the following fields:

- Heating / service water systems
- Floor heating
- Sub-coolers and condensers
- Economizers
- Refrigerant evaporators
- Oil coolers and many more industrial applications

To sum it up: The GBS Series enables a wide range of applications at an excellent price/performance ratio.



Features and benefits

Safety Chamber™

Our patented Safety Chamber™ absorbs the stress from thermal shock and pressure pulsations that would damage other brazed plate heat exchangers. When overloaded, encapsulated contact points around the ports take up the forces and stretch, protecting against internal leaks and premature failure. A GEA PHE Systems exclusive safety factor.

Delta Injection™ for Advanced Evaporator - AE line

A GEA PHE Systems patented Delta Injection™ refrigerant distribution system is specially developed for evaporator applications. It provides precise metering of refrigerant to the channels, guaranteeing the highest evaporator performance. The Delta Injection™ is fully integrated into the stainless steel heat-transfer plate.

Robust Plate Design

This special plate design by GEA PHE Systems, the Rolled Edge Lock System™, guarantees a consistent braze joint at the plate overlap and makes for stronger and more leak-proof heat exchanger. The contact points, extended and larger in design, result in stronger braze joints between the plates, thus guaranteeing high heat exchanger strength.

Full-Flow System™

Every new plate design is now equipped with the Full-Flow System™. This unique flow system insures continuous flow around the port area to prevent freezing and also feeds the working fluid equally over the channel to guarantee maximum use of the heat transfer area. Additional protection and performance from GEA PHE Systems.

GBS Series – Technical data

Plate material: Stainless steel AISI 316 / 1.4401

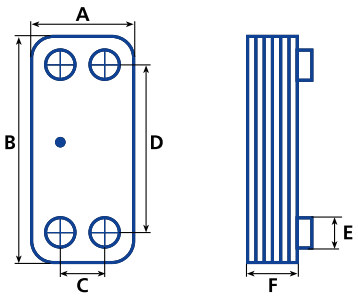
Brazing material: Copper

Performance: Up to 30 bar at ±200°C

Third party approval: PED (CE), TÜV, further certifications upon request

Features:





Stainless steel, copper-brazed	Advanced Evaporator AE	A	B	C	D	E	F N = Number of plates	Mass N = Number of plates	Volume	Max. water flow rate	Max. number of plates
Type		Standard dimensions (mm)						(kg)	(liter/ch)	(m^3/h)	
GBS 100	–	74	204	40	170	15	8.0+2.23xN	0.70+0.050xN	0.025	4	50
GBS 200	–	90	231	43	182	20	10.0+2.24xN	1.10+0.060xN	0.030	6	50
GBS 220	–	90	328	43	279	20	10.0+2.22xN	1.30+0.080xN	0.046	6	50
GBS 240	–	90	464	43	415	20	10.0+2.20xN	2.04+0.140xN	0.070	6	50
GBS 300	–	124	173	73	120	25	10.0+2.22xN	1.20+0.060xN	0.030	10	50
GBS 400	AE	124	335	73	281	25	9.5+2.24xN	1.60+0.130xN	0.065	10	100
GBS 418	–	127	282	84	239	20	9.0+2.05xN	1.35+0.118xN	0.055	6	50
GBS 420	–	127	282	68	223	32	9.0+2.76xN	1.35+0.118xN	0.076	10	100
GBS 500	AE	124	532	73	478	25	9.5+2.23xN	1.76+0.210xN	0.100	10	100
GBS 525	–	118	525	69	476	25	7.5+2.76XN	2.55+0.210xN	0.120	10	100
GBS 700L	-	271	532	200	460	40	11.0+2.29xN	9.60+0.540xN	0.230	27	150
GBS 700M	AE	271	532	200	460	40	11.0+2.25xN	9.60+0.540xN	0.230	27	150
GBS 757	–	281	543	198	460	60	11.5+2.65xN	13.2+0.500xN	0.310	27	160
GBS 760	–	257	519	138	416	80	13.5+3.45xN	12.6+0.400xN	0.410	70	130
GBS 800	AE	271	532	161	421	65	11.5+2.34xN	10.0+0.540xN	0.221	70	260
GBS 900	AE	271	802	161	690	65	11.3+2.31xN	11.5+0.800xN	0.399	70	260
GBS 910	–	318	783	225	690	65	14.0+2.54xN	20.0+0.853xN	0.480	70	200
GBS 1000H	AE	386	875	237	723	100	20.3+2.31xN	39.5+1.250xN	0.600	160	360

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