

GBE Series – Brazed Plate Heat Exchangers

Top performance, low budget

You know exactly what you want: plenty of performance and low costs. This is precisely why our EcoBrazed product line includes the brazed GBE Series. These plate heat exchangers with very high thermal efficiency give you total control of size, weight, capacity, quality and economic efficiency. Perfect for all applications up to 16 bar and up to +150°C.

These units are available in four sizes for the following applications:

- Heating systems (floor and conventional heating systems, hot water preparation)
- Hydraulic applications with low pressure levels
- Small refrigeration systems using R134A as refrigerant

To sum it up: The GBE Series provides inexpensive solutions.



Features and benefits

Robust Plate Design

A special plate arrangement by GEA PHE Systems, optimised plate design and pressure resistance up to 16 bar. The contact points were extended and enlarged by design and now result in stronger braze joints between the plates, thus guaranteeing high strength of the entire heat exchanger.

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.

GBE Series – Technical data

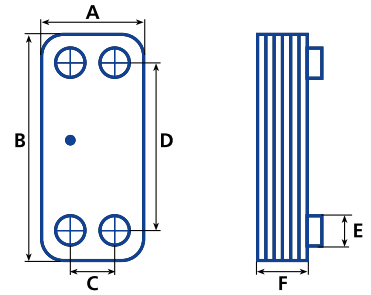
Plate material: Stainless steel AISI 316 / 1.4401

Brazing material: Copper

Performance: Up to 16 bar, +150°C

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

Features:



Type	A	B	C	D	E	F N = Number of plates	Mass N = Number of plates	Volume	Max. water flow rate	Max. number of plates
Standard dimensions (mm)							(kg)	(lLiter/Chanel)	(m ³ /h)	
GBE 100	74	204	40	170	15	7.0+2.30xN	0.42+0.05xN	0.046	4	50
GBE 200	86	226	43	183	20	10.2+2.21xN	0.23+0.05xN	0.030	6	50
GBE 220	86	323	43	279	20	10.2+2.21xN	0.26+0.08xN	0.046	6	50
GBE 240	86	457	43	414	20	10.2+2.21xN	0.31+0.12xN	0.070	6	50

Type	A	B	C	D	E	F N = Number of plates	Mass N = Number of plates	Volume	Max. water flow rate	Max. number of plates
Standard dimensions (in)							(lbs)	(gal/ch)	(gpm)	
GBE 100	2.9	8.03	1.57	6,7	1/2	0.28+0.091xN	0.93+0.11xN	0.012	25	50
GBE 200	3.4	8.9	1.7	7,2	3/4	0.32+0.087xN	0.50+0.12xN	0.008	25	50
GBE 220	3.4	12.7	1.7	11,0	3/4	0.32+0.087xN	0.58+0.18xN	0.012	25	50
GBE 240	3.4	18.0	1.7	16,3	3/4	0.32+0.087xN	0.68+0.26xN	0.019	25	50

GEA PHE Systems – Competence in Heat Transfer

With emphasis on the highest quality standards and constant innovations, GEA PHE Systems continues to expand its market position: Within the GEA Process Equipment Division, GEA Ecoflex together with GEA ViEX, GEA WTT, GEA PHE Systems NA and GEA EcoServe forms GEA PHE Systems, the Center of Competence and Service Center for gasketed, fully welded and brazed plate heat exchangers of GEA Group:

- HVAC
- Sugar
- Paper
- Power
- General Industry
- Refrigeration
- Chemical
- Food
- Marine
- Renewable Energy

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