

## EcoBraise – Brazed plate heat exchangers

GBS Series: Powerful models in a flexible range of sizes



Are you looking for a combination of flexibility and state-of-the-art PHE technology? Then the answer is the GBS Series of plate heat exchangers from the EcoBraise line by GEA PHE Systems. These brazed all-rounders are ideally suited for the widest range of applications up to a maximum temperature of 200°C and up to 30 bars pressure.

### 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.



#### Rolled Edge Lock System™

Larger brazed joints at the plate edge guarantee increased heat exchanger stability and improved leakage protection.



#### Full-Flow System™

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

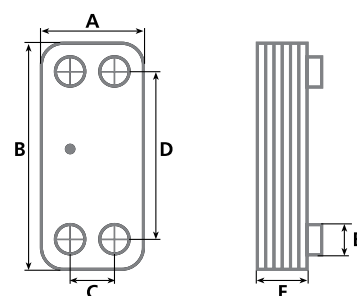
#### Flexible use with optimum price-performance ratio

- Heating water and industrial water systems
- Underfloor heating
- Subcoolers and condensers
- Economizers
- Refrigerant evaporators
- Oil coolers and many further industrial applications

## GBS Series: Specifications

Plate material: AISI 316 / 1.4401 stainless steel  
 Braze material: Copper  
 Performance limits: up to 30 bars and up to +200°C  
 Certification: PED (CE), ASME, UL, others on request

Properties:    



Model		Standard dimensions (mm)						(kg)	(Litres/ channel)	(m <sup>3</sup> /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
<b>GBS 100</b>	–	74	204	40	170	15	8.0+2.23xN	0.70+0.050xN	0.025	4	50
<b>GBS 200</b>	–	90	231	43	182	20	10.0+2.24xN	1.10+0.060xN	0.030	6	50
<b>GBS 220</b>	–	90	328	43	279	20	10.0+2.22xN	1.30+0.080xN	0.046	6	50
<b>GBS 240</b>	–	90	464	43	415	20	10.0+2.20xN	2.04+0.140xN	0.070	6	50
<b>GBS 300</b>	–	124	173	73	120	25	10.0+2.22xN	1.20+0.060xN	0.030	10	50
<b>GBS 400</b>	AE	124	335	73	281	25	9.5+2.24xN	1.60+0.130xN	0.065	10	100
<b>GBS 418</b>	–	127	282	84	239	20	9.0+2.05xN	1.35+0.118xN	0.055	6	50
<b>GBS 420</b>	–	127	282	68	223	32	9.0+2.76xN	1.35+0.118xN	0.076	10	100
<b>GBS 500</b>	AE	124	532	73	478	25	9.5+2.23xN	1.76+0.210xN	0.100	10	100
<b>GBS 525</b>	–	118	525	69	476	25	7.5+2.76xN	2.55+0.210xN	0.120	10	100
<b>GBS 700L</b>	–	271	532	200	460	40	11.0+2.29xN	9.60+0.540xN	0.230	27	150
<b>GBS 700M</b>	AE	271	532	200	460	40	11.0+2.25xN	9.60+0.540xN	0.230	27	150
<b>GBS 757</b>	–	281	543	198	460	60	11.5+2.65xN	13.2+0.500xN	0.310	27	160
<b>GBS 760</b>	–	257	519	138	416	80	13.5+3.45xN	12.6+0.400xN	0.410	70	130
<b>GBS 800</b>	AE	271	532	161	421	65	11.5+2.34xN	10.0+0.540xN	0.221	70	260
<b>GBS 900</b>	AE	271	802	161	690	65	11.3+2.31xN	11.5+0.800xN	0.399	70	260
<b>GBS 910</b>	–	318	783	225	690	65	14.0+2.54xN	20.0+0.853xN	0.480	70	200
<b>GBS 1000H</b>	AE	386	875	237	723	100	20.3+2.31xN	39.5+1.250xN	0.600	160	360
<b>GBS 1000L</b>	–	386	875	237	723	100	22.65+2.35xN	39.5+1.250xN	0.466/0.733	160	360

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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