

# Kelvion



## Brazed Plate Heat Exchangers

# GBS SERIES— COPPER BRAZED PHE



### Brazed Plate Heat Exchangers

**Safety Chamber™**—Takes the stress from thermal shock and pressure pulsations. When overloaded, encapsulated contact points around the ports absorb the force and stretch, thereby protecting against internal leaks.

**Expansion Metering Distributor™**—A Direct Expansion Metering Distributor provides precise metering of refrigerant to the channel plates for a wide range of operating conditions.

**Full-Flow System™**—This unique flow system ensures continuous flow around the port area to prevent freezing and feeds the working fluid equally.

**Rolled Edge Lock System™**—This feature provides extended and larger contact points, providing stronger brazed joints between the plates.

### GBS Application Versatility

- Heating and hot water production
- Radiant floor heating
- Snow melting equipment
- Evaporators
- Sub-coolers
- Condensers
- Oil coolers

GBS brazed plate heat exchangers are expertly engineered and manufactured for optimal performance. Plates are designed and produced using advanced CAD/CAM technology. They are pressed and stacked on automated press lines and brazed in computer controlled furnaces to ensure the highest quality. All finished units are rigorously pressure and leak tested before leaving the factory.

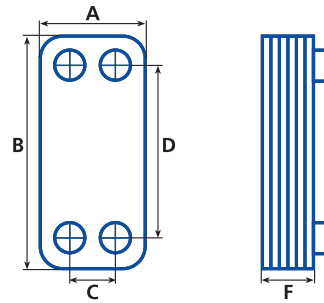
**GBS Series:** Technical data

**Plate Material:** Stainless steel AISI 316L (1.4401)

**Brazing Material:** Copper

**Max. Standard Design Pressure:** Up to 450 psig at 350°F  
(31 barg at 176°C)

**Third Party Approval:** UL listed optional ASME, CRN, CSA,  
PED (CE), KHK, others



Standard Dimensions Inches (mm)										
Model	A		B		C		D		F	
GBS 200	3.5"	90 mm	9.1"	231 mm	1.7"	43 mm	7.2"	182 mm	0.39" + (0.088" x N*)	10.0 mm + (2.24 mm x N)
GBS 220	3.5"	90 mm	12.9"	328 mm	1.7"	43 mm	11.0"	279 mm	0.39" + (0.088" x N)	10.0 mm + (2.24 mm x N)
GBS 240	3.5"	90 mm	18.3"	464 mm	1.7"	43 mm	16.3"	415 mm	0.39" + (0.088" x N)	10.0 mm + (2.24 mm x N)
GBS 400**	4.9"	124 mm	13.2"	335 mm	2.9"	73 mm	11.1"	281 mm	0.37" + (0.088" x N)	9.5 mm + (2.24 mm x N)
GBS 500**	4.9"	124 mm	20.9"	532 mm	2.9"	73 mm	18.8"	478 mm	0.37" + (0.088" x N)	9.5 mm + (2.24 mm x N)
GBS 700**	10.7"	271 mm	20.9"	532 mm	7.9"	200 mm	18.1"	460 mm	0.43" + (0.090" x N)	11.0 mm + (2.29 mm x N)
GBS 757	11.1"	282 mm	21.4"	544 mm	7.8"	198 mm	18.1"	460 mm	0.45" + (0.104" x N)	11.5 mm + (2.65 mm x N)
GBS 760	10.1"	257 mm	20.4"	519 mm	5.4"	138 mm	16.4"	416 mm	0.53" + (0.104" x N)	13.5 mm + (3.45 mm x N)
GBS 800**	10.7"	271 mm	20.9"	532 mm	6.3"	161 mm	16.6"	421 mm	0.45" + (0.092" x N)	11.5 mm + (2.34 mm x N)
GBS 900**	10.7"	271 mm	31.6"	802 mm	6.3"	161 mm	27.2"	690 mm	0.44" + (0.091" x N)	11.3 mm + (2.31 mm x N)
GBS 1000H**	15.2"	386 mm	34.5"	875 mm	9.3"	237 mm	28.5"	723 mm	0.91" + (0.093" x N)	20.3 mm + (2.31 mm x N)

\* N = number of plates

\*\* = available with Advanced Evaporator (AE)

Technical Data							
Model	Net Weight		Volume		Max Standard Flow Rate		Max Plate Count
GBS 200	2.43 lbs + (0.13 lbs x N)	1.10 kg + (0.06 kg x N*)	0.008 gal/ch	0.030 l/ch	15 gpm	6 m³/h	50
GBS 220	2.87 lbs + (0.17 lbs x N)	1.30 kg + (0.08 kg x N)	0.012 gal/ch	0.046 l/ch	25 gpm	6 m³/h	50
GBS 240	4.50 lbs + (0.31 lbs x N)	2.04 kg + (0.14 kg x N)	0.019 gal/ch	0.070 l/ch	25 gpm	6 m³/h	50
GBS 400**	3.53 lbs + (0.29 lbs x N)	1.60 kg + (0.13 kg x N)	0.017 gal/ch	0.065 l/ch	70 gpm	10 m³/h	100
GBS 500**	3.88 lbs + (0.46 lbs x N)	1.76 kg + (0.21 kg x N)	0.026 gal/ch	0.100 l/ch	70 gpm	10 m³/h	100
GBS 700**	21.16 lbs + (1.19 lbs x N)	9.60 kg + (0.54 kg x N)	0.061 gal/ch	0.230 l/ch	200 gpm	27 m³/h	150
GBS 757	29.03 lbs + (1.10 lbs x N)	13.17 kg + (0.50 kg x N)	0.073 gal/ch	0.276 l/ch	200 gpm	50 m³/h	160
GBS 760	27.69 lbs + (0.88 lbs x N)	12.56 kg + (0.40 kg x N)	0.109 gal/ch	0.411 l/ch	300 gpm	70 m³/h	130
GBS 800**	22.05 lbs + (1.19 lbs x N)	10.0 kg + (0.54 kg x N)	0.058 gal/ch	0.221 l/ch	300 gpm	70 m³/h	260
GBS 900**	25.42 lbs + (1.77 lbs x N)	15.0 kg + (0.80 kg x N)	0.105 gal/ch	0.399 l/ch	300 gpm	70 m³/h	260
GBS 1000H**	87.10 lbs + (2.76 lbs x N)	39.50 kg + (1.25 kg x N)	0.159 gal/ch	0.600 l/ch	700 gpm	160 m³/h	360

\* N = number of plates

\*\* = available with Advanced Evaporator (AE)

The specifications contained in this printing 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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**About Kelvion:**

Kelvion provides one of the most extensive product portfolios in the heat exchange market worldwide for a wide range of applications. Kelvion manufactures plate, shell and tube, air-cooled heat exchangers, air filter systems, synthetic fillings for numerous areas of application, wet cooling towers and dry cooling systems, as well as air-conditioning facilities. As a result, Kelvion provides reliable and comprehensive coverage of the entire spectrum for heat exchange.

