GBS-Series

POWERFUL MODELS IN A FLEXIBLE RANGE OF SIZES

GBS-Series

Heat Exchangers of the GBS-Series are the solid all-rounders among all brazed plate heat exchangers from Klevion. The latest technology and decades of experience of successful applications guarantee highest quality, cost efficiency and reliability. Equipped with the proven technical features like Safety Chamber™, Delta Injection™ and Full Flow System™ the units are ideal for applications of all sizes with max. 200°C/392°F and up to 40 bar/580 psi.

The product range also offers the widest variety and flexibility in terms of sizes, different connections, flow arrangements and accessories. Thus heat exchangers of the GBS-series always serve the right solution for your operating conditions.

Always a suitable solution at hand

The brazed plate heat exchangers from Kelvion offer tailor-made solutions for the widest range of application. We configure the most economically favorable model for you from the wide range of available sizes and the numerous optional features. We adapt this with individually positioned connections to meet your specific requirements.

Example:

- heating water and industrial water systems
- underfloor heating
- subcoolers and condensers
- economizer
- refrigerant evaporators
- oil coolers

Your advantages at a glance:

- highest flexibility
- compact design
- wide range of applications
- solid construction
GBS-Series: Specifications

- **plate material**: Stainless steel AISI 316L / 1.4404
- **brazing material**: Copper

## Features

- **Safety Chamber**<sup>TM</sup>(model 700, 757, 800, 900, 1000)
- **Delta Injection**<sup>TM</sup>(model 400, 500, 700M, 800, 900, 1000H)
- **Full Flow System**<sup>TM</sup>(model 100, 200, 220, 240, 300, 400, 500)

## Performance limits

- **working temperature**: -196°C to +200°C / -321°F to +392°F
- **working pressure**: up to 40 bar / 580psi

## Approval

- PED (CE), ASME VIII-1, UL

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### Plate heat exchanger

<table>
<thead>
<tr>
<th>Type</th>
<th>Pressure (bar)</th>
<th>Standard dimensions (mm)</th>
<th>L-Dimension N = number of plates</th>
<th>Mass number of plates</th>
<th>Volume (L)</th>
<th>Max. number of plates</th>
</tr>
</thead>
<tbody>
<tr>
<td>GBS 100M</td>
<td>31</td>
<td>74 204 40 170</td>
<td>8.00+2.23xN</td>
<td>0.70+0.050xN</td>
<td>0.025</td>
<td>50</td>
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<tr>
<td>GBS 200H</td>
<td>31</td>
<td>90 231 43 182</td>
<td>10.00+2.24xN</td>
<td>1.10+0.060xN</td>
<td>0.030</td>
<td>50</td>
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<td>GBS 220H</td>
<td>31</td>
<td>90 328 43 279</td>
<td>10.00+2.22xN</td>
<td>1.30+0.080xN</td>
<td>0.046</td>
<td>50</td>
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<tr>
<td>GBS 240H</td>
<td>31</td>
<td>91 464 43 415</td>
<td>10.00+2.20xN</td>
<td>2.04+0.140xN</td>
<td>0.070</td>
<td>50</td>
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<tr>
<td>GBS 300H</td>
<td>31</td>
<td>124 173 73 120</td>
<td>10.00+2.22xN</td>
<td>1.20+0.060xN</td>
<td>0.030</td>
<td>50</td>
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<tr>
<td>GBS 400H</td>
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<td>124 335 73 281</td>
<td>9.50+2.24xN</td>
<td>1.60+0.130xN</td>
<td>0.065</td>
<td>100</td>
</tr>
<tr>
<td>GBS 418L/M</td>
<td>40</td>
<td>127 282 84 239</td>
<td>9.00+2.05xN</td>
<td>1.35+0.118xN</td>
<td>0.055</td>
<td>50</td>
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<tr>
<td>GBS 420L</td>
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<td>127 282 68 223</td>
<td>9.00+2.76xN</td>
<td>1.35+0.118xN</td>
<td>0.076</td>
<td>150</td>
</tr>
<tr>
<td>GBS 500H</td>
<td>31</td>
<td>124 532 73 478</td>
<td>9.50+2.23xN</td>
<td>1.76+0.210xN</td>
<td>0.100</td>
<td>100</td>
</tr>
<tr>
<td>GBS 525L/M/H</td>
<td>36/34</td>
<td>118 525 69 476</td>
<td>9.00+2.58xN</td>
<td>2.55+0.210xN</td>
<td>0.125</td>
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<tr>
<td>GBS 700L/M</td>
<td>31</td>
<td>271 532 200 460</td>
<td>11.00+2.25xN</td>
<td>9.60+0.540xN</td>
<td>0.230</td>
<td>150</td>
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<tr>
<td>GBS 757L/M/H</td>
<td>35</td>
<td>281 543 198 460</td>
<td>11.50+2.65xN</td>
<td>13.20+0.500xN</td>
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<tr>
<td>GBS 760L</td>
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<td>12.60+0.400xN</td>
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<tr>
<td>GBS 800H</td>
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<td>11.50+2.34xN</td>
<td>10.00+0.540xN</td>
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<td>GBS 900H</td>
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<td>11.30+2.31xN</td>
<td>11.50+0.800xN</td>
<td>0.399</td>
<td>260</td>
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<tr>
<td>GBS 910M</td>
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<td>318 783 225 690</td>
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<td>20.00+0.853xN</td>
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<td>20.30+2.31xN</td>
<td>39.50+1.250xN</td>
<td>0.600</td>
<td>360</td>
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<tr>
<td>GBS 1000L</td>
<td>31/16</td>
<td>386 875 237 723</td>
<td>22.65+2.35xN</td>
<td>39.50+1.250xN</td>
<td>0.466/0.733</td>
<td>360</td>
</tr>
<tr>
<td><strong>GBS 400H-AE</strong></td>
<td>31</td>
<td>124 335 73 281</td>
<td>9.50+2.24xN</td>
<td>1.60+0.130xN</td>
<td>0.065</td>
<td>100</td>
</tr>
<tr>
<td><strong>GBS 500H-AE</strong></td>
<td>31</td>
<td>124 532 73 478</td>
<td>9.50+2.23xN</td>
<td>1.76+0.210xN</td>
<td>0.100</td>
<td>100</td>
</tr>
<tr>
<td><strong>GBS 700M-AE</strong></td>
<td>31</td>
<td>271 532 200 460</td>
<td>11.00+2.25xN</td>
<td>9.60+0.540xN</td>
<td>0.230</td>
<td>150</td>
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<tr>
<td><strong>GBS 800H-AE</strong></td>
<td>31</td>
<td>271 802 161 690</td>
<td>11.30+2.31xN</td>
<td>11.50+0.800xN</td>
<td>0.399</td>
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<td>39.50+1.250xN</td>
<td>0.600</td>
<td>360</td>
</tr>
</tbody>
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Also available as an advanced evaporator with a special „Delta Injection™“ distribution system for the refrigerant inlet.

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