

## GML-Series | Brazed Plate Heat Exchangers

# THE ENVIRONMENT FRIENDLY SOLUTION



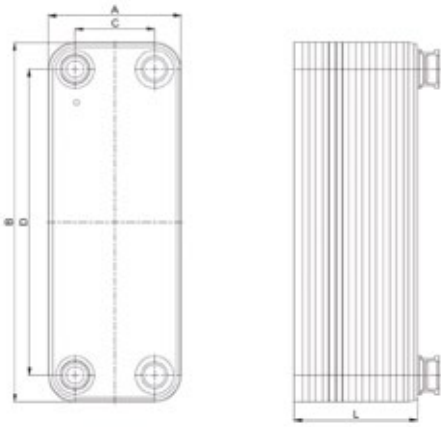
## DESIGN & FUNCTION

With the GML-Series Kelvion offers copper brazed plate heat exchangers, which are designed for the safe use of CO<sub>2</sub>. Thus, the GML-Series serves an important future market, because the excellent thermodynamic properties of CO<sub>2</sub> bring many benefits. And finally this refrigerant replaces bit by bit ozone containing CFCs. The GML-Series enables compact systems which can, despite their great performance, manage with smaller cable cross-sections. In the future, more than ever, effective and compact systems for refrigeration and air conditioning applications are required, where high pressures can be handled easily.

The used multi-layer technology is based on 2 stainless steel plates, which are fully soldered together with a copper foil and thereby withstand enormous pressure. The heat exchangers of the GML-Series are available in two sizes for pressures up to 75 bar/1088 psi.

## ADVANTAGES

- ▶ **COMPACT DESIGN**
- ▶ **ENVIRONMENT FRIENDLY**
- ▶ **POWERFUL PLATE DESIGN**
- ▶ **SAFE IN HIGH PRESSURE APPLICATIONS**



### 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.

### APPLICATION EXAMPLES:

- ▶ High-pressure refrigeration applications
- ▶ CO<sub>2</sub> applications

| Type    | Pressure<br>bar | Dimensions |           |           |           | L-Dimension*<br>[mm] | Weight*<br>[kg] | Volume<br>(Litre/<br>Channel) | Max. number<br>of plates |
|---------|-----------------|------------|-----------|-----------|-----------|----------------------|-----------------|-------------------------------|--------------------------|
|         |                 | A<br>[mm]  | B<br>[mm] | C<br>[mm] | D<br>[mm] |                      |                 |                               |                          |
| GML 400 | 75              | 124        | 335       | 73        | 281       | 14,40+2,35xN         | 2,75+0,185xN    | 0.065                         | 100                      |
| GML 500 | 75              | 124        | 532       | 73        | 478       | 14,30+2,30xN         | 4,35+0,300xN    | 0.100                         | 100                      |

\*N = number of plates

### SPECIFICATIONS

- ▶ Plate Material: Stainless steel AISI 316L / 1.4404
- ▶ Brazing Material: Copper

### FEATURES

- ▶ Full Flow System™

### PERFORMANCE LIMITS

- ▶ Working temperature: -196°C to +200°C / -321°F to +392°F
- ▶ Working pressure: up to 75 bar / 1088psi

### APPROVAL

- ▶ PED (CE)
- ▶ ASME VIII-1

### We need following information to select your optimum heat exchanger

- ▶ Required temperature range
- ▶ Flow rates or required heat load
- ▶ Maximal permitted pressure drop
- ▶ Required working conditions

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.