

# Technical specification



## Alfa Laval copper brazed plate heat exchanger

Typ : CB30-50H  
 Pos. :  
 Date : 16.01.2024

The brazing material seals and holds the plates together at the contact points ensuring optimal heat transfer efficiency and pressure resistance. Using advanced design technologies and extensive verification guarantees the highest performance and longest possible service life. Different pressure ratings are available for different needs. Based on standard components and a modular concept, including symmetric and asymmetric channels, each unit is custom-built to meet the specific requirements of each individual installation.



| Fluid                               |                | <u>Hot Side</u>   | <u>Cold side</u> |
|-------------------------------------|----------------|---|------------------|
|                                     |                | Water   | 35.0% Eth.glycol |
| Mass flow rate                      | kg/s           | 0.5989  | 1.351            |
| Inlet temperature                   | °C             | 70.0  | 40.0             |
| Outlet temperature                  | °C             | 50.0  | 50.0             |
| Pressure drop                       | kPa            | 2.57  | 16.0             |
| L.M.T.D.                            | K              | 14.4  |                  |
| Heat exchanged                      | kW             | 50.00   |                  |
| Duty margin                         | %              | 74.0  |                  |
| Heat transfer area                  | m <sup>2</sup> | 1.39  |                  |
| Number of plates                    |                | 50  |                  |
| Material plate / brazing            |                | Alloy 316 / Cu  |                  |
| Connection S1 (Hot-in)              |                | Threaded (External)/ 1 1/4" ISO 228/1-G (V24) Alloy 316 |                  |
| Connection S2 (Hot-out)             |                | Threaded (External)/ 1 1/4" ISO 228/1-G (V24) Alloy 316 |                  |
| Connection S3 (Cold-in)             |                | Threaded (External)/ 1" ISO 228/1-G (V22) Alloy 316     |                  |
| Connection S4 (Cold-out)            |                | Threaded (External)/ 1" ISO 228/1-G (V22) Alloy 316     |                  |
| Design pressure at 90°C             | Bar            | 40.0  | 40.0             |
| Design pressure at 225°C            | Bar            | 32.0  | 32.0             |
| Design temperature                  | °C             | -196.0/225.0  |                  |
| Pressure vessel code                |                | PED   |                  |
| Length x width x height (l x w x h) | mm             | 174 x 113 x 313   |                  |
| Net weight, empty / operating       | kg             | 7.97 / 10.6   |                  |

### Contact us:

**Aptec production s.r.o.**  
 U Sladovny 425, CZ - 67125 Hodonice  
 T +420 530 511 302, **Hotline 24h** +420 778 080 012  
 E: [info@aptec.international](mailto:info@aptec.international) | W: [aptec.international](http://aptec.international)

