



TD-Series

TRUE DUAL EVAPORATOR – TWO IN ONE

**TD-Series**

The TD True-Dual Evaporator: two evaporators or condensers in one device thanks to it having two separate refrigeration circulations and a central water/brine circulation. The TD always ensures full efficiency even when operating only one refrigeration circulation. Also available as an AE version and in the ConBrazed design.

The respective refrigeration circulation is only 100% in contact with the water/brine circulation in the True-Dual, it thereby ensuring full efficiency – even if the other refrigeration circulation is taken out of operation (partial load). The refrigerant flow is carried out on the basis of the diagonal flow principle, thereby ensuring an optimal degree of utilisation of the heat transfer surface. The evaporator includes the Delta Injection™ – distribution system.

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

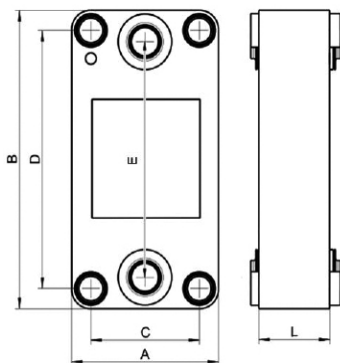
the most economically favorable model for you from the wide range of available sizes and the numerous optional features. We adapt this with individually positioned connections to meet your specific requirements.

Examples:

- Heating/service water systems
- Underfloor heating
- Subcoolers and condensers
- Economizers
- Refrigerant evaporators
- Oil coolers

Your advantages at a glance:

- highest degree of flexibility
- compact design
- wide range of applications
- robust design



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

| Type | (bar) | Standard dimensions (mm) | | | | | (mm) | (kg) | (Litre/Channel) | |
|---|----------|--------------------------|-----|-----|-----|-----|-------------------------------------|------------------------------|-----------------|-----------------------|
| Plate heat exchanger | Pressure | A | B | C | D | E | L-Dimension N = number of plates | Mass N = number of plates | Volume | Max. number of plates |
| WP 7M-TD | 31 | 271 | 532 | 200 | 460 | 420 | 13.50+2.35xN | 11.7+0.54xN | 0.230 | 262 |
| WP 9-TD | 25 | 271 | 802 | 161 | 690 | 690 | 13.50+2.35xN | 12.8+0.80xN | 0.330 | 302 |
| GKS 770H-TD | 46/41 | 278 | 539 | 200 | 460 | 420 | 13.35+1.70xN | 6.8+0.47xN | 0.180 | 262 |
| GKH 770H-TD | 55/50 | 278 | 539 | 200 | 460 | 420 | 13.35+1.70xN | 6.8+0.47xN | 0.180 | 262 |
| Also available as an advanced evaporator with a special "Delta Injection™" distribution system for the refrigerant inlet. | | | | | | | | | | |
| WP-AE 7M-TD | 31 | 271 | 532 | 200 | 460 | 420 | 13.50+2.35xN | 11.7+0.54xN | 0.230 | 262 |
| WP-AE 9-TD | 25 | 271 | 802 | 161 | 690 | 690 | 13.50+2.35xN | 12.8+0.80xN | 0.330 | 302 |
| GKS 770H-TD-AE | 46/41 | 278 | 539 | 200 | 460 | 420 | 13.35+1.70xN | 6.8+0.47xN | 0.180 | 262 |
| GKH 770H-TD-AE | 55/50 | 278 | 539 | 200 | 460 | 420 | 13.35+1.70xN | 6.8+0.47xN | 0.180 | 262 |

TD-Series: Specifications

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

Features

- Safety Chamber™
- Delta Injection™
- ConBraz-Design (model 770)

Performance limits

- working temperature: -195°C to +200°C
- working pressure: up to 55 bar

Approval

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



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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