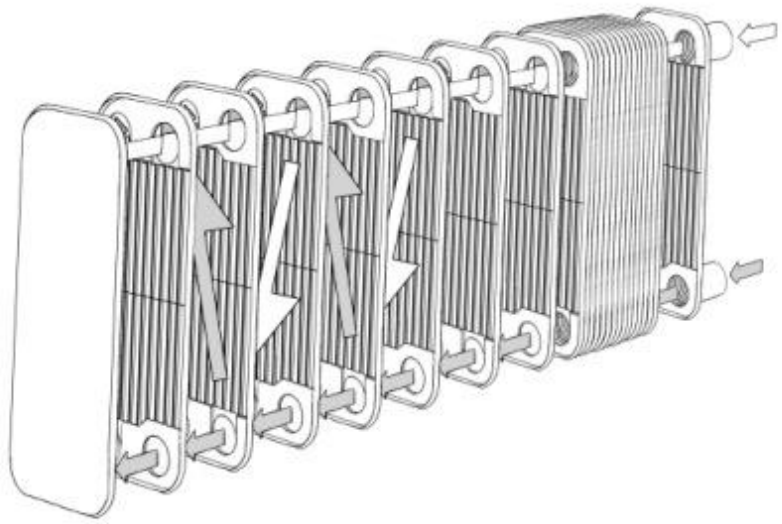
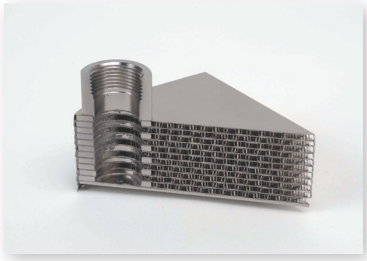
INDUSTRIAL SURFACE SOLUTIONS

BRAZED TITANIUM HEAT EXCHANGER

TITANIUM BRAZED HEAT EXCHANGER WITH HIGHER RELIABILITY BY BRAZING EXPERTS WITH A STRONG AND ROBUST INNER-FIN STRUCTURE FOR DIFFERENT APPLICATIONS





EUROMAT GmbH
Hermann-Hollerith-Straße 6
D-52499 Baesweiler

Tel +49 2401 607 2866
Fax +49 2401 607 2855

E-Mail input@euromat.de
Web www.euromat.de

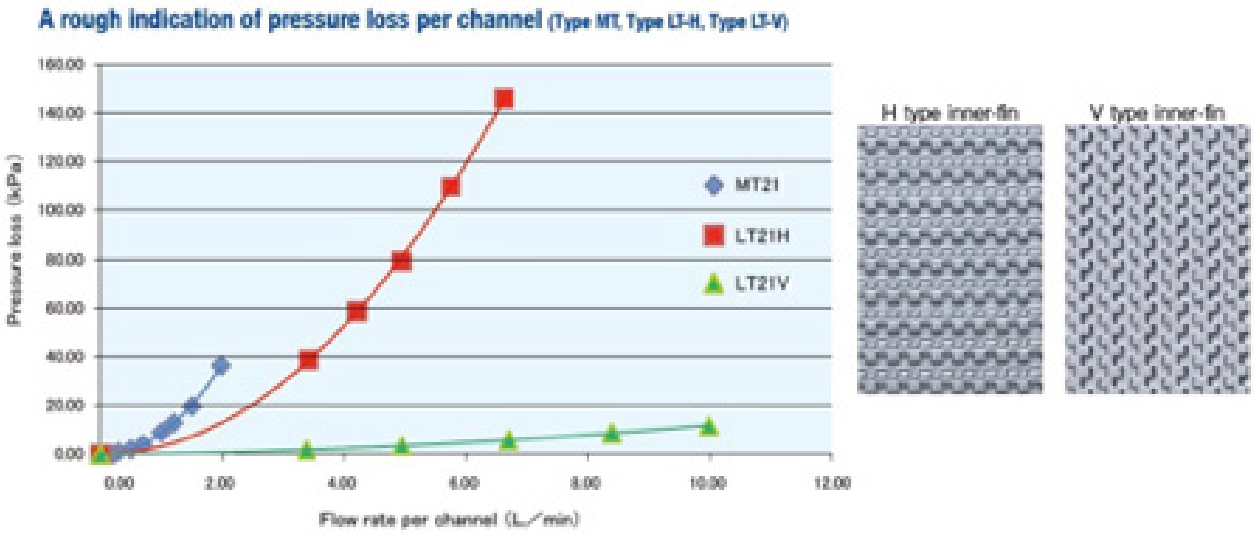
INDUSTRIAL SURFACE SOLUTIONS

FEATURES

Fully customizable design optimization by the customers request. Highly usable for many different applications due to its innovative features.

- ✓ Refrigerants applicable: Robust structure by brazing so that refrigerants such as R410A can be applied. Designed pressure of 3MPa and our plate heut exchanger is the only one which can use refrigerants.
- ✓ Pure Water: Pure water application is available due to little or none of metal Ion Relation and contamination.
- ✓ High corrosion resistance against salt water and chemicals: Excellent corrosion resistance against sea water, aqueous chloride solution, hypochlorous acid and others.
- ✓ High Performance and strength: High thermal Efficiency created by turbulence effect of special designed inner-fin and robust structure by brazing.
- ✓ Light weight and compact: Density of titanium is about 60% of stainless steels and brazed heat exchanger structure needs no backup plate with bolts & nuts, also gaskets for robustness and longer lifetime, so that those become light weight and compact with durability.
- ✓ Customizing: We customize the design to meet customers request by channel numbers and plate size. We manufacture after receiving your order.

PRESSURE LOSS



APPLICATIONS

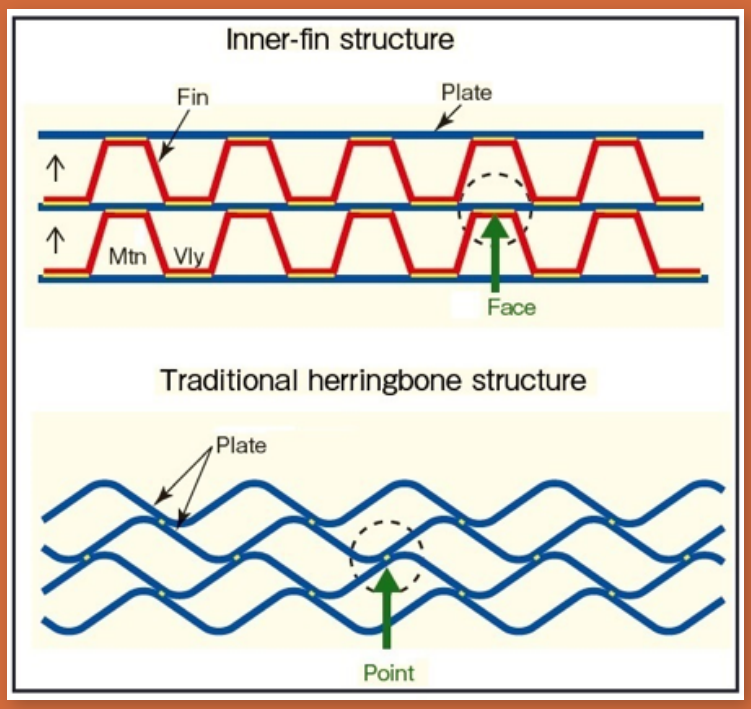
- ✓ Devices using pure water
- ✓ Chemical and analysis devices
- ✓ Food industries
- ✓ Refrigeration and air conditioning devices
- ✓ Water heaters

APPLICABLE FLUIDS

Refrigerants (R410A, etc.), pure water, salt water, aqueous chloride solution, hypochlorous acid, nitric acid, chromic acid and others.

INNER-FIN STRUCTURE

Inner-fin structure is robust design due to stronger brazing joint which has surface contact between plate and fin compared to traditional herringbone structure which has point contact between plate and plate.



MATERIALS

✓ Plate and fin: Pure titanium

✓ Brazing alloy: Titanium based brazing alloy

CONNECTION SAMPLE

Model	Maximum Size
Basic PT screw	• MT Rc 3/4 • LT Rc 3/4
Flare screw for refrigerant	• MT Ø19.05 • LT Ø19.05

SPECIFICATIONS

	TB-MT7	TB-MT11	TB-MT21	TB-LT21	TB-LT41	TB-LT51
Dimensions (L x W x H)	311 x 90 x 32mm	311 x 90 x 45mm	311 x 90 x 79mm	583 x 154 x 79mm	583 x 154 x 147mm	583 x 154 x 181mm
No. of Channel (High Temp. Side/ Low Temp. Side)	7 (3/4)	11 (5/6)	21 (10/11)	21 (10/11)	41 (20/21)	51 (25/26)
Heat Transfer Area	0,128m^2	0,214m^2	0,428m^2	1,388m^2	2,776m^2	3,471m^2
Design Pressure	3 MPa					
Design Temperature	-40°C ~ +100°C					
Weight	1,60kg	2,20kg	3,90kg	11,30kg	20,80kg	25,60kg

CHEMICAL COMPOSITION

Model	Chemical composition (Mass %)				Melting Point
TB-1510	Ti (37.5)	Zr (37.5)	Cu (15)	Ni (10)	842°C

TYPES AND DIMENSIONS