INDUSTRIAL HEAT EXCHANGER

I-TFMP-I
Multi-pass. Non removable tube bundle.

INDUSTRIAL LINE
Designed both thermal and mechanically to ensure long life and high reliability.

OPERATION
The I-TFMP-I is a heat exchanger consisting of a tube bundle within a shell. The product flows through the inner tubes making multiple pass while the service does it on the outer channel.

APPLICATIONS
Processes of heating, evaporation, condensation or cooling of products such as oils, effluents, sewage, asphalts, hydrocarbons, biogas, exhaust gases, biodiesel, methanol and others.

ADVANTAGES OF TUBULAR HEAT EXCHANGER
- LOW MAINTENANCE COSTS
- HIGH WORKING PRESSURES
- HIGH WORKING TEMPERATURES
- PROCESSING OF PARTICULATE OR FIBRE PRODUCTS
- EASY INSPECTION AND DISASSEMBLY
- HIGH SECURITY IN ASEPTIC PROCESSES
- EASY TO ENLARGE

ADVANTAGES OF CORRUGATION
- HYGIENIC PROFILE
- DIFFERENT CORRUGATION GEOMETRIES (HARD/SOFT/PLAIN)
- TURBULENT FLOW (LOWER REYNOLDS NUMBER THAN FOR SMOOTH TUBES)
- HIGHER HEAT TRANSFER COEFFICIENTS AND LOWER EXCHANGE AREA
- HOMOGENEOUS THERMAL TREATMENT
- LOWER FOULING
- SHORTER RESIDENCE TIMES
- LONGER RUNNING TIMES

Discover all the advantages of corrugation in tubular heat exchangers sacome.com/en/corrugated-tube-heat-exchangers/
**INDUSTRIAL LINE**

**TFMP**

**MULTI-PASS**

**0/1**

**WITHOUT / WITH EXPANSION JOINT**

**NUMBER OF INNER TUBES**

**85**

**Ø SHELL (mm)**

**18**

**Ø INNER TUBE (mm)**

**6000**

**NOMINAL LENGTH (mm)**

**304**

**SHELL SIDE MATERIAL**

**316L**

**TUBE SIDE MATERIAL**

**H/S/P**

**CORRUGATION INDICATOR**

(HARD / SOFT/ PLAIN)

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**SACOME HEAT EXCHANGER TYPE DEFINITION**

**I-TFMP-4-I-7-1-85/18-6000-304/316L-H**

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**STANDARD**

**DESIGN CONDITIONS**

Design temperature

180 ºC

Design pressure

10 barg

For higher design pressures or temperatures as well as hazardous fluids, the heat exchangers can be checked according to AD 2000 Merkblätt, ASME VIII Div.1, PD 5500, EN13445 or by Finite Elements Analysis and CE certificated by individual inspection modules.

* Included: CE Marking according to 2014/68/UE.

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**STANDARD**

**MEASURES**

Shell side diameter

60,3 mm – 1200 mm

Inner tube diameter

≥ 10 mm

Length

1-1.5-2-3-6 m

* Other available sizes under request.

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**MATERIALS**

Shell & Tubes

Stainless Steel 304 or 316L

* Other materials available on request (2205, 2507, 254 SMO among others)

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**AVAILABLE**

**CONNECTIONS**

Flange

* Other connections available on request.

---

**SURFACE FINISH**

External

Matt

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**OPTIONS**

**INSULATION**

Mineral wool coated in 304 stainless steel metal sheet.

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**INTERCONNECTIONS**

In case the equipment contains several units in series, SACOME can provide the interconnections for the product channel and the service channel.

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**FRAME**

In 304 stainless steel. The type and shape of the frame will be selected to fit the needs of each project. If required, equipment may be sloping for better drainage.

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