

## ParaTube<sup>®</sup> Double Tube Tubular Heat Exchangers - Regenerator Design

FOR SANITARY APPLICATIONS

Double tube heat exchangers consist of two concentrically positioned tubes.

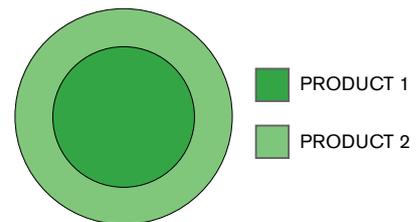
There are o-rings on one side and a clamp for disassembly on the opposite side.

Double tube heat exchangers are suitable for heating and cooling of low-medium flow rates of low viscous products. Due to its special design, this double tube is used as a direct regenerator, with direct product-to-product heat recovery for energy savings.

Because of the availability of a range of inner tube and outer tube diameter combinations, this double tube design is capable of direct regeneration of a range of product flow rates.

The construction of the double tube regenerator design can be fully disassembled and cleaned on both sides. This design allows for processing products with small and flexible particles (fibres/pulp).

The double tube type regenerator design can be used in combination with other tubular heat exchanger types.



### MAIN FEATURES

- Thermal expansion devices are not required. Double tube regenerator design has free expansion.
- Flexible arrangement - modules are connected on inner tube side by bends and on annular space side by fittings.

### Full inspection on product side

- On inner tube by removing bends between modules
- On annular space by removing inner tube from outer tube

## STANDARD MATERIALS

AISI 316 (1.4401) /316L (1.4404)

Others available on request.

## STANDARD FINISH

**PRODUCT SIDE:** 2B finish/polished

## WORKING CONDITIONS

**DESIGN TEMPERATURE:** Up to 250°C (482°F)

**DESIGN PRESSURE:** Up to 75 bar (1087 psi)

## CONNECTIONS

### PRODUCT SIDE

Clamp fittings are supplied as standard.

Other available on request for some models.

### ANNULAR SIDE

Clamp fittings are supplied as standard.

Other available on request for some models.

## NOMENCLATURE

**CDT/R-1-2-LM - Corrugated Double Tube Type Regenerator Design**

1: Inner tube outer diameter (mm)

2: Outer tube outer diameter (mm)

L: Tubes length (m)

## PRODUCT RANGE

### OUTER TUBE outer diameters

From 30mm to 139,7mm (1.2 in to 5.5 in)

### INNER TUBES outer diameters

From 18mm to 101,6mm (0.7in to 4 in)

### TUBES LENGTH

Standard supply: 3 m - 6 m (10 ft - 20 ft)

Other available on request.

### CORRUGATION

All models can be supplied with corrugated or smooth tubes.

## CERTIFICATIONS

In compliance with European Pressure Equipment Directive 2014/68/EU.

OTHER CERTIFICATES available on request.

Based in Charlotte, North Carolina, SPX FLOW, Inc. (NYSE: FLOW) is a multi-industry manufacturing leader. For more information, please visit [www.spxflow.com](http://www.spxflow.com)

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