

ParaTube[®] Triple Tube Tubular Heat Exchangers - Welded Design

FOR SANITARY APPLICATIONS

Triple tube heat exchangers consist of three concentrically positioned tubes.

The outer tube is welded to the middle tube using caps and the inner tube is fixed to the middle tube using o-rings on one side and a clamp on the other side to allow for disassembly.

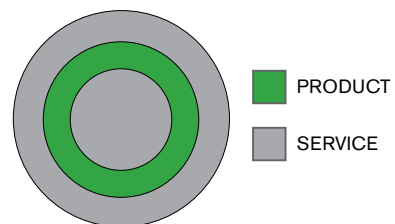
The product flows through the annular space surrounded by service fluid avoiding preferential paths creating gentle, homogeneous product treatment.

It is suitable for heating, cooling and pasteurising low to medium flow rates of high viscosity products. The triple tube design is not suitable for products that contain unbending particles or pieces, but allows for small flexible particles (fibres).



MAIN FEATURES

- Product side is suitable for inspection by removing inner tube.
- Thermal expansion bellows to absorb difference of expansion.
- Maintenance requires replacement of o-rings.
- Flexible arrangement - modules are connected on inner tube side by bends and on annular space side by fittings.



STANDARD MATERIALS

AISI 316 (1.4401) /316L (1.4404)

AISI 304 (1.4301) /304L (1.4306)

Others (AISI 316Ti, DUPLEX) available on request.

STANDARD FINISH

PRODUCT SIDE: Polished

SERVICE SIDE: Grinded

WORKING CONDITIONS

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

DESIGN PRESSURE: Up to 50 bar (725 psi)

CONNECTIONS

PRODUCT SIDE

Clamp fittings are supplied as standard.

Other available on request for some models.

SERVICE SIDE

Clamp fittings are supplied as standard.

Other available on request for some models.

NOMENCLATURE

CQTT/W-1-2-3-4-LM - Corrugated **Q**uadruple-**T**riple **T**ube Type **W**elded Design

1: Inner tube outer diameter (mm)

2: Outer tube outer diameter (mm)

3: Outer tube outer diameter (mm)

L: Tubes length (m)

PRODUCT RANGE

"Couple" or **"Independent"** designs are available, depending on middle tube diameter.

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.



Coupled



Independent

CERTIFICATIONS

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

OTHER CERTIFICATES available on request.

OTHER AVAILABLE

Quadruple-Triple Tube is a Triple Tube version, with four concentric tubes.

Special design without O-rings, so easier maintenance and higher pressure allowance in comparison with Triple Tube.

CTT/W-1-2-3-LM - Corrugated **T**riple **T**ube Type **W**elded Design

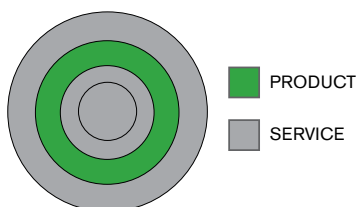
1: Inner tube outer diameter (mm)

2: Second tube outer diameter (mm)

3: Third tube outer diameter (mm)

4: Outer tube outer diameter (mm)

L: Tubes length (m)



Maintenance made easy, only change gaskets on connections.

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

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Design features, materials of construction, dimensional data and certifications as described in this bulletin, are provided for your information only and should not be relied upon unless confirmed in writing. Please contact your local sales representative for product availability in your region.

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APV_HE-Tripletube-TTW_FLR_GB

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