

## ParaTube<sup>®</sup> Quadruple Tube Tubular Heat Exchangers - Welded Design

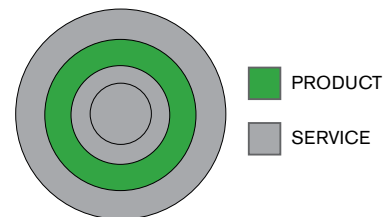
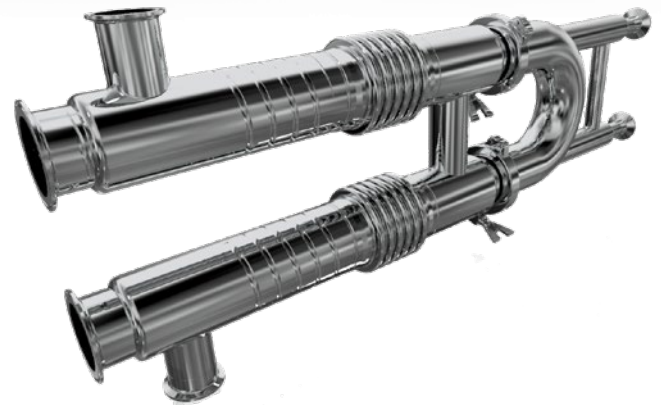
FOR SANITARY APPLICATIONS

Quadruple tube heat exchangers consists of four concentrically positioned tubes.

The outer tube is welded to a third tube using caps and the inner tube set (inner tube + second tube) is welded to the special product bend.

The product flows through the main annular space (second – third tube), surrounded by service fluid which runs through outer annular space (outer – third tube) and inner annular space (inner-second tube).

The quadruple tube design is suitable for heating, cooling and pasteurising low to medium flow rates of products with high viscosity. The special bend on the product side makes this design suitable for processing products with big particles (pieces) which need to maintain integrity during process.



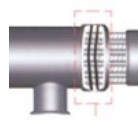
### MAIN FEATURES



Product side is suitable for inspection by removing inner tube.



Maintenance made easy, only change gaskets on connections.



Thermal expansion bellows to absorb difference of expansion.



Special bend for processing products with particles.



Flexible arrangement. Modules are connected on product side by means of bends and on service side by means of fittings.

## STANDARD MATERIALS

AISI 316 (1.4401) /316L (1.4404)

AISI 304 (1.4301) /304L (1.4306)

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

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## STANDARD FINISH

**PRODUCT SIDE:** Polished

**SERVICE SIDE:** Grinded

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## WORKING CONDITIONS

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

**DESIGN PRESSURE:** Up to 50 bar (725 psi)

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## 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.

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## NOMENCLATURE

**CQT/W-1-2-3-4-LM** - Corrugated **Q**uadruple **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)

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## PRODUCT RANGE

Due to special bend, only **COUPLE** design is available.

### 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.

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## CERTIFICATIONS

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

OTHER CERTIFICATES available on request.

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APV\_HE-Quadrupletube-QTW\_FLR\_GB

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