



# XTUBE® Tripletube

Personalized Solution  
for you industry

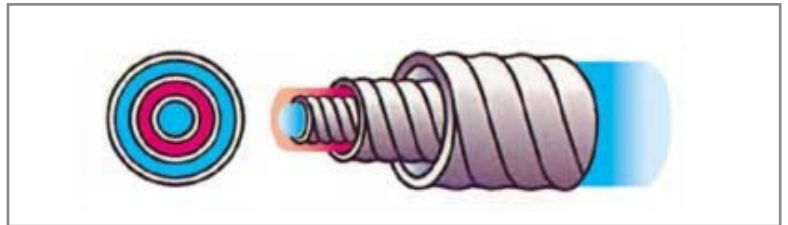
## Description

XTube® Tripletube heat exchangers are manufactured entirely from stainless steel and consist of three or four concentric corrugated tubes.

The fluid to be treated (the product) flows through a kind of sandwich as it is heated (or cooled) from the outside and the inside annulus made by concentric tubes, while the product flows in the middle annulus formed by the 2nd and 3rd tubes. The range is formed by units with different diameters to meet from low to high process flow rates. Tubes are corrugated to boost heat transfer and to minimize fouling.

All of our units are designed and manufactured according to the CE marking regulations contained in the European Pressure Directive (97/23/EC) and are CE marked when we are permitted to do so.

If the application or the clients own preference demands it, an equivalent range of all welded units is also available.



## Applications

XTube® Tripletube heat exchangers are very suitable for the following applications:

- Heating and cooling fluids of average and high viscosity, even including for small fibres and particles.
- Heating and cooling of tomato concentrate.
- Heating and cooling banana paste.
- High temperature and pressure applications.





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## Connections

To allow a rapid and flexible installation and easy inspection of the units the XTUBE® Tripletube heat exchangers use ISO standard ferrule/clamp connections. If the matching ferrules, clamps gaskets are required by the client for installation purposes these can be supplied on request to allow connection to the clients' pipe work system.

## Materials of construction

All product wetted components (interior tube and bends etc.) are manufactured from AISI 316L stainless steel but for more aggressive fluids a range of Duplex stainless steels are also available.

The service side components are normally made from AISI 304 stainless steel but AISI 316L and Duplex steels may be used when required.

Areas not in contact with the working fluids are normally constructed from AISI 304 stainless steel.

Silicone rubber is used for the O ring seals and connection gaskets or seals but a wide range of alternative elastomers are available when specific applications require them.

Alternative materials can be offered for all wetted components on application.

## Design Conditions

The standard design conditions for the XTube® Tripletube heat exchangers are the following:

- Minimum and maximum allowable working temperatures: -40°C / +180°C
- Minimum and maximum allowable working pressures: 25 Bar(g)/Full vacuum

Higher pressures and temperatures are possible on request.

## Standard dimensions

XTube® Tripletube heat exchangers can be delivered in various lengths, the standard dimensions being approximately 1500 mm, 2000 mm, 3000 mm and 6000 mm.

The exterior tube diameters used are as follows: Ø 88.9 mm, 104.0 mm, 114.3 mm, 129.0 mm, 141.3 mm and 168.3 mm. The tube thickness used will depend on the design conditions for each application.

The diameters of the interior tubes and their wall thickness will be chosen to meet the requirements of each application.

