



*flow & process solutions*





Potravinářský průmysl  
Farmaceutický průmysl  
Biotechnologie  
Petrochemie  
Chemický průmysl  
Energetika  
Úprava vody  
Papírenství a zpracování celulózy  
Plynárenský průmysl  
Keramický průmysl  
Zpracovatelský průmysl

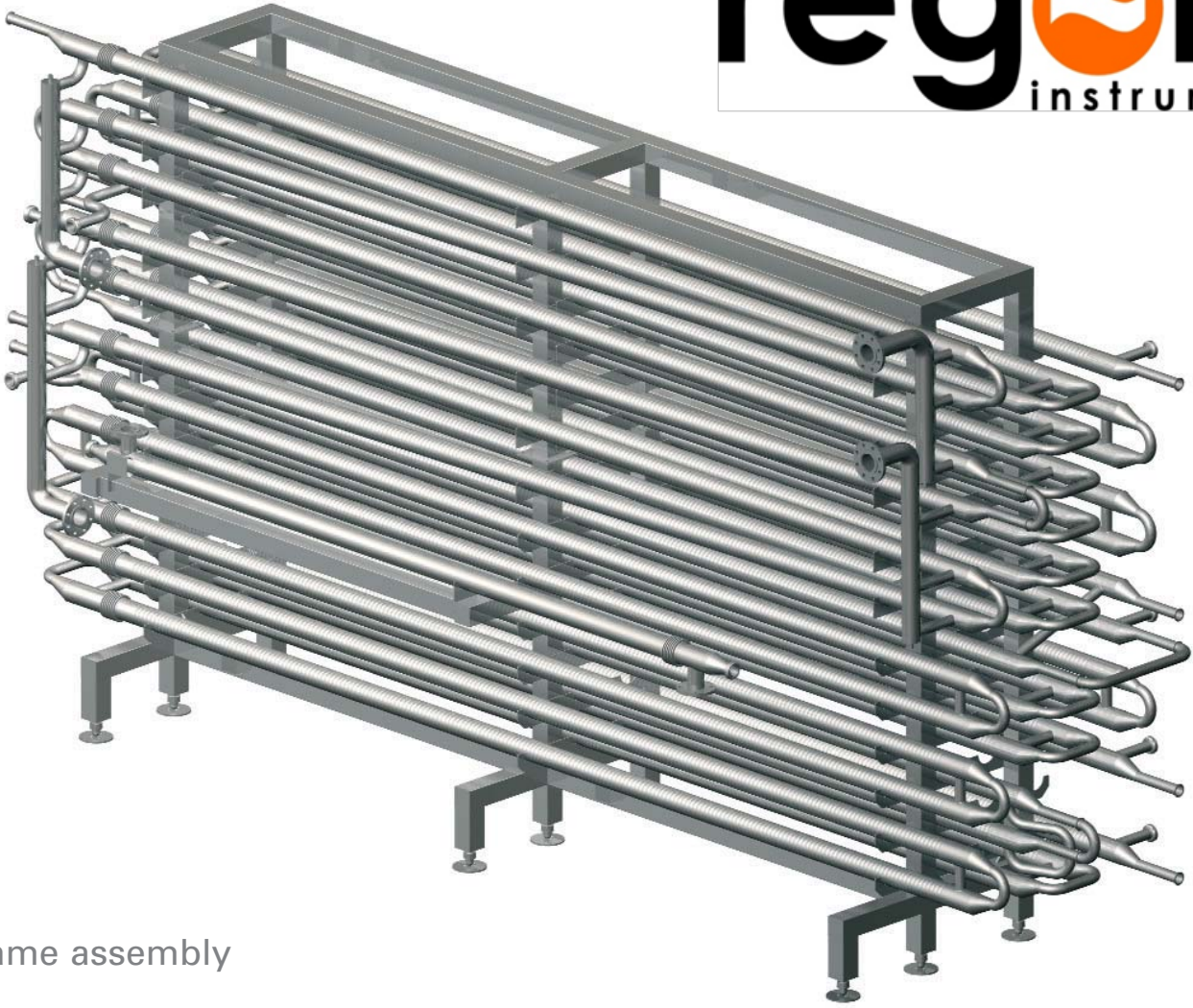


Firma s tradicí od r. 1990 se při svém vzniku zaměřila na dodávky základních komponent, přístrojové a měřicí techniky a dodávky technologií pro farmaceutický a potravinářský průmysl. Cílem bylo zajistit kompletní dodavatelsko - inženýrské služby, včetně servisu. V roce 1998, který byl pro firmu velmi významným mezníkem, proběhla transformace společnosti do nynější formy. V dalších letech činnosti společnosti dochází k rozšíření portfolia a je navazována spolupráce s partnery v oblasti armatur, komponent, ventilů, procesní měřicí techniky a čerpadel.

Oblastí působnosti je potravinářský, farmaceutický průmysl, biotechnologie, chemický průmysl, petrochemie, úprava vody, papírenství a celulóza, energetika, keramický průmysl a zpracovatelský průmysl.

Firma REGOM INSTRUMENTS je díky širokému dodavatelskému portfoliu a bohatým zkušenostem schopna zajistit dodávky armatur, komponent, čerpadel, přístrojů a zařízení.

Cílem společnosti REGOM INSTRUMENTS je poskytování kvalitních služeb a spolehlivých dodávek pro co nejširší okruh zákazníků.



frame assembly

type of corrugation

big dimple



dimple

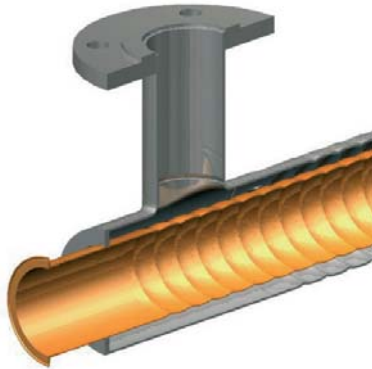


hard

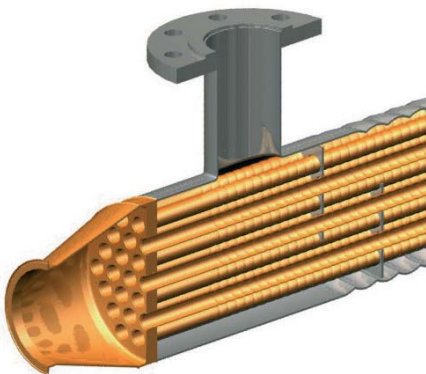




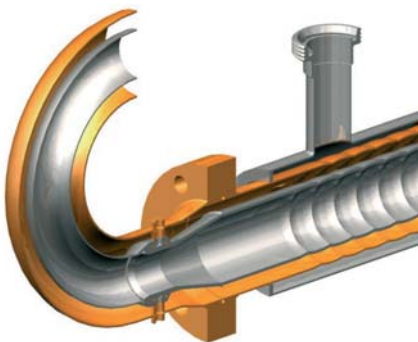
# Introduction



monotube



multitube



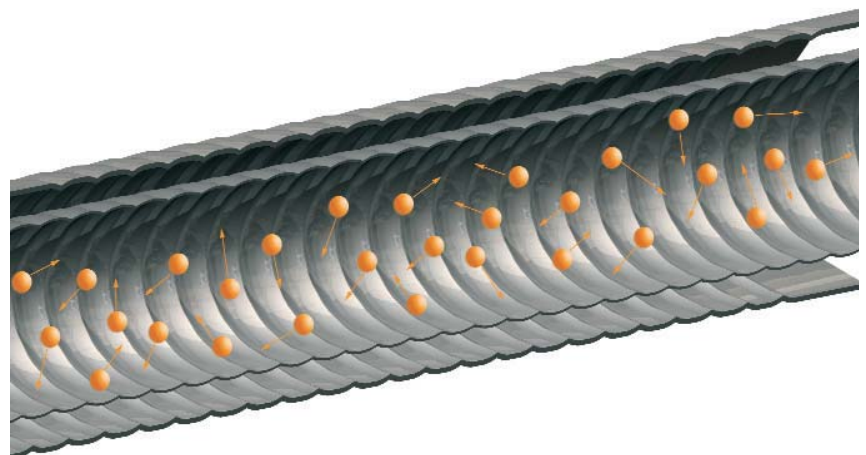
triple tube

Turbulence is the main factor in thermal transfer. HRS has designed different geometries to increase thermal efficiency in tubular heat exchangers by means of corrugation, both inner and outer tubes.

This innovation has the following benefits:

- Reduces thermal treatment time in food applications.
- Reduces the product volume contained in the heat exchanger.
- Reduces fouling.
- Reduces the heat exchanger volume and weight.

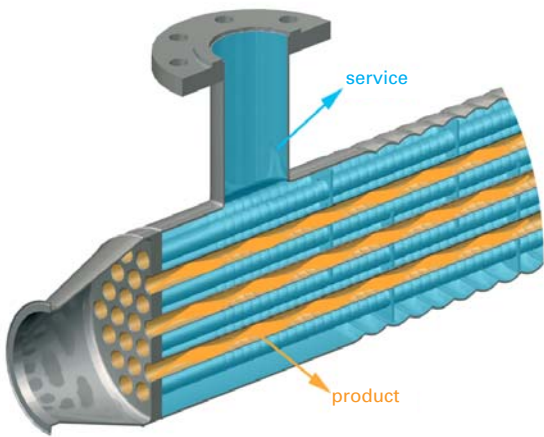
Our aim is to improve the efficiency of current geometries.



turbulence

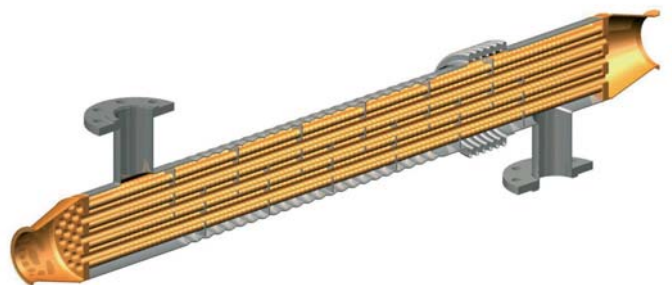
# Models

## MI Food Industry Multitube Heat Exchanger



The MI series heat exchanger is an all welded stainless steel multitube heat exchanger (tube bundle within a shell) with the shell and inner tubes corrugated (the standard is hard corrugation) to increase the rate of heat transfer. The hygienic design makes the MI series especially suited for use in the food industry.

The product flows through the inner tubes and the service fluid through the space between the inner tubes and the shell. The MI series heat exchanger is ideally suited for food applications involving fluids of low to intermediate viscosities and non Newtonian fluids where any particles contained within the fluid are relatively small.

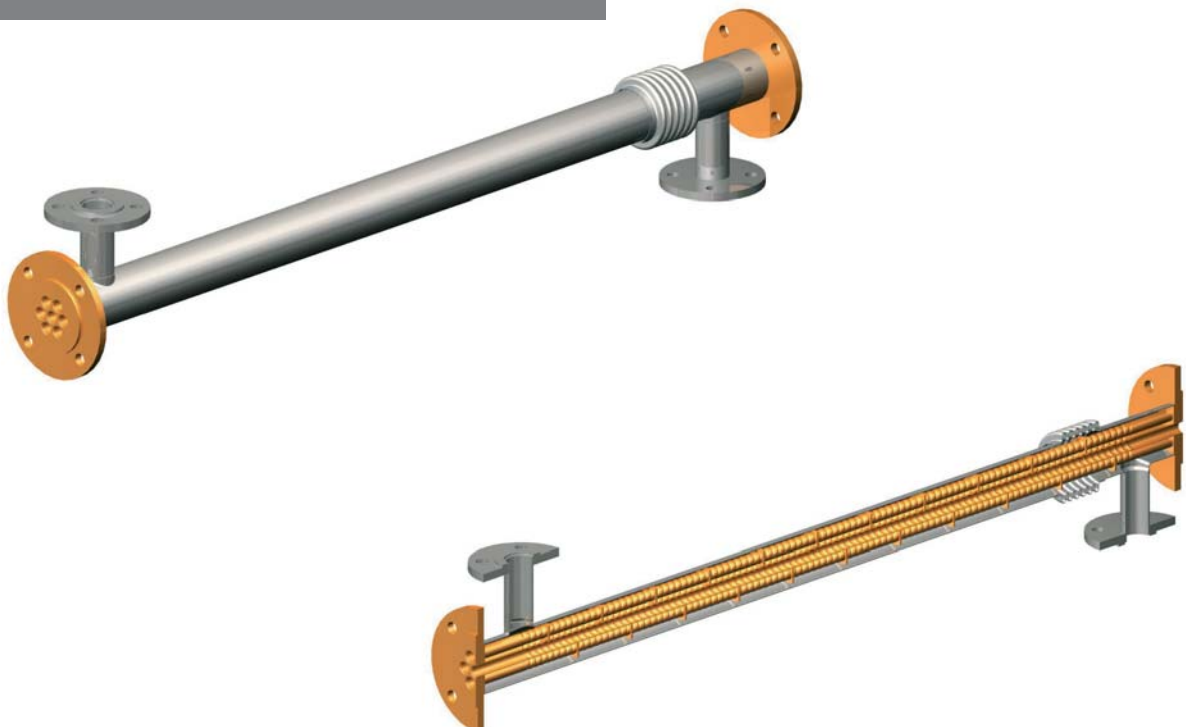
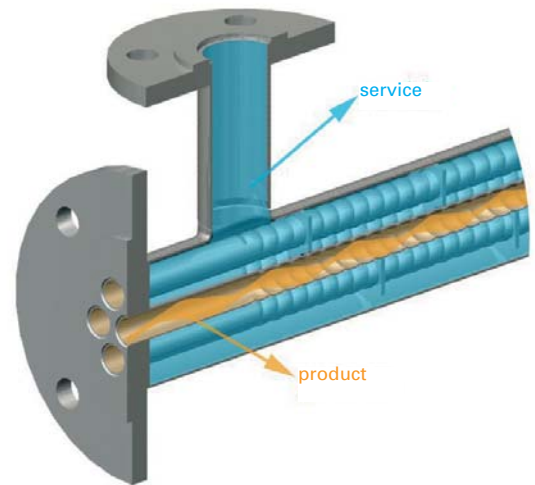


## K Industrial Multitube Heat Exchanger

The K series heat exchanger is an all welded stainless steel multitube heat exchanger (tube bundle within a shell) with the inner tubes corrugated to increase the rate of heat transfer. The product normally flows through the inner tubes and the service fluid through the space between the inner tubes and the shell.

The K series heat exchanger is ideally suited for industrial applications involving:

- Liquids and gases.
- Fluids of low to intermediate viscosities and non Newtonian fluids where any particles contained within the fluid are relatively small.

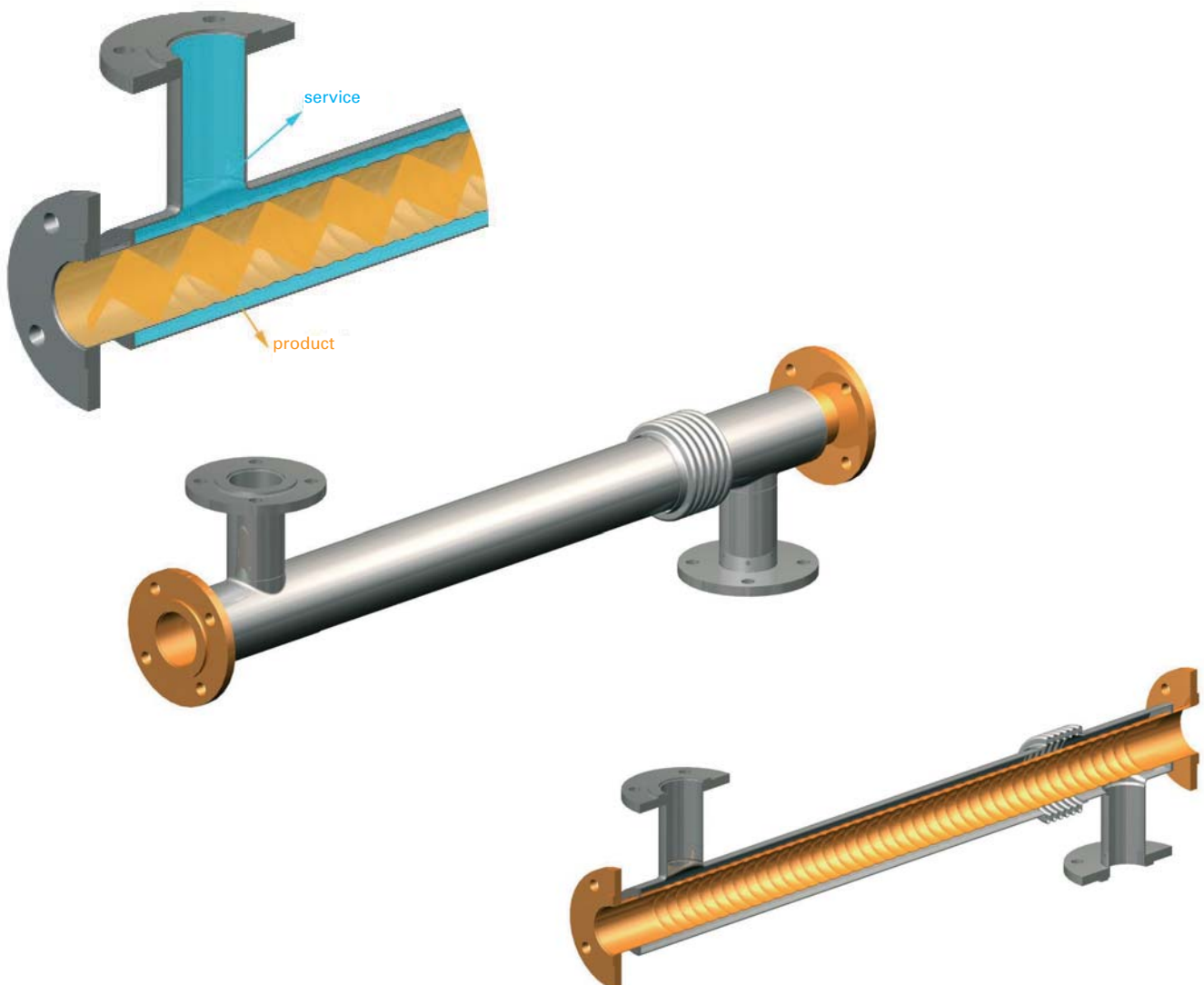


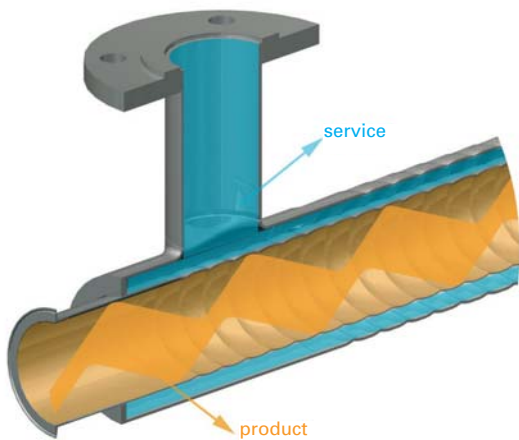
## DTI Industrial Double Tube Heat Exchanger

The DTI type heat exchanger is a double tube heat exchanger (tube within a tube). The inner tube has a hard corrugation for increasing the heat transfer. The product flows through the inner tube and the service fluid through the annulus between the inner and outer tube.

Due to the interior cross section the DTI type heat exchanger is suitable for:

- Fluids that contain fibres or other types of solid particles.
- Fluids of low to intermediate viscosities and non Newtonian fluids.



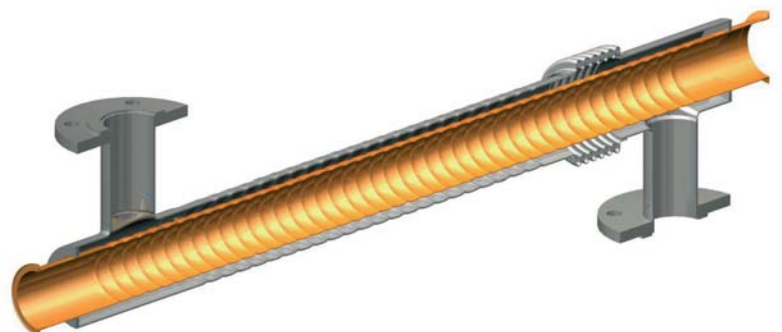


The DTA type heat exchanger is a double tube heat exchanger (tube within a tube), similar to the DTI type heat exchanger, but with a design that is suited to food industry applications. Both the inner and the outer tube are corrugated for increasing heat transfer. The product flows through the inner tube and the service fluid through the annulus between the inner and outer tube.

Due to the interior cross section the DTA type heat exchanger is suitable for:

- Fluids that contain fibres or other types of solid particles.
- Fluids of low to intermediate viscosities and non Newtonian fluids.

## DTA Food Industry Double Tube Heat Exchanger



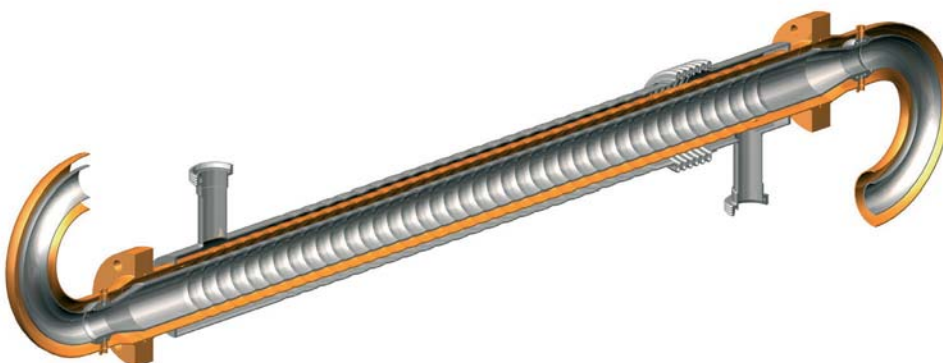
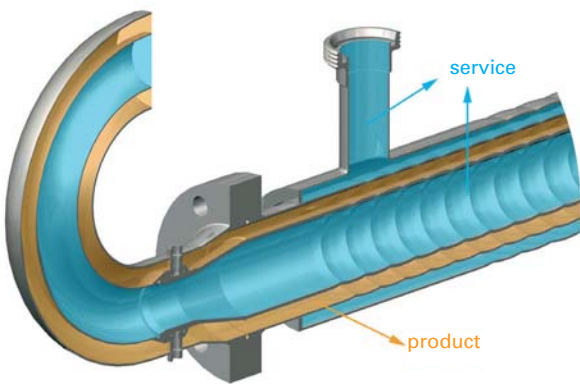


## AS Food Industry Triple Tube Heat Exchanger

The AS type heat exchanger is a triple tube heat exchanger (tube within a tube). All tubes are corrugated for increasing heat transfer. The service fluid flows in the annulus between the shell and the second tube and through the third tube. The product flows in the annulus between the second tube and the third tube as shown in the illustration.

The Annular Space heat exchanger is specially suited for:

- Fluids of high viscosity.
- Fluids non Newtonian.
- Fluids that contain small particles.



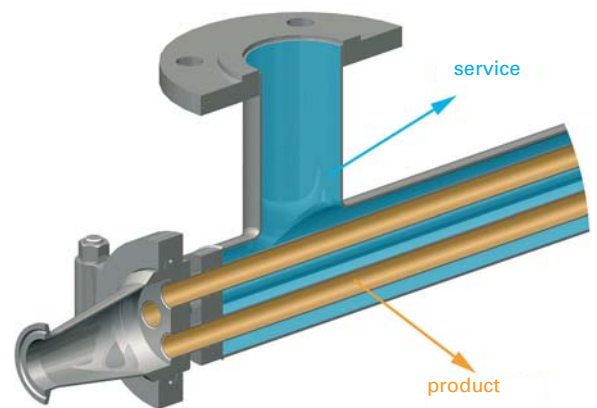
The F series heat exchanger is a hygienic unit especially designed for Pharmaceutical and Bio-technological applications. The interior tubes can be corrugated or smooth to facilitate drainage of the product.

The principal characteristics of this model are:

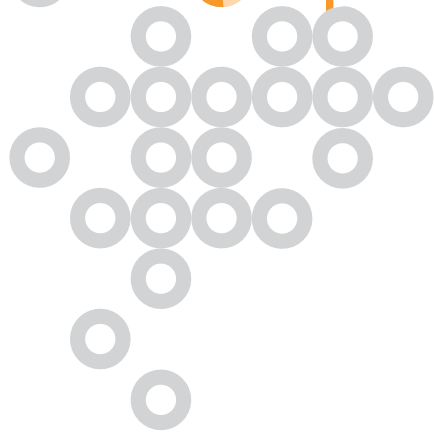
- Double tubeplate to eliminate the risk of cross contamination between the product and service fluids.
- Highly polished surfaces on all product wetted surfaces.
- Construction and component shapes which give crevice free surfaces and eliminate dead areas which would allow bacteriological growth.
- Self draining designs available when required.

Typical applications for this model are: Pharmaceutical and Bio-technological.

## F Series Heat Exchanger Hygienic Unit



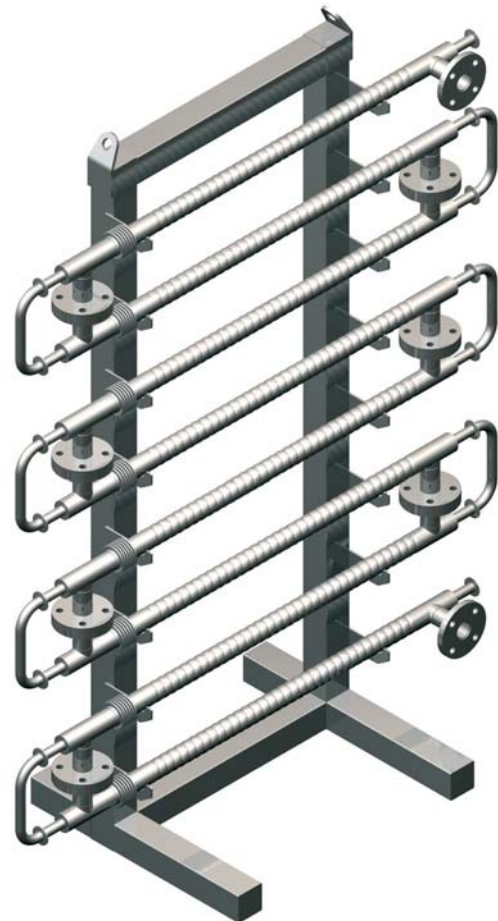
# Special Cases



Out of the standard range, we can develop heat exchangers such as:



coil



in series or parallel assemblies

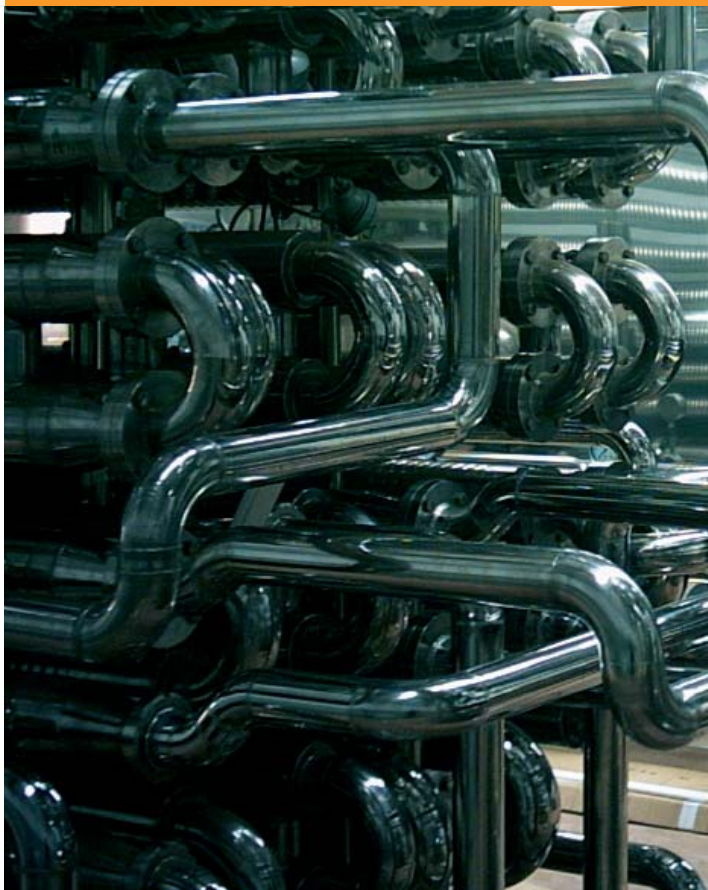


# Applications

## Industrial Applications

Sanitary hot water  
Heat recovery  
Condensers  
Naval engineering  
Waste water  
Sludge  
Solvents

Paints  
Varnishes  
Lotions  
Emulsions  
Water/steam  
Thermal oils



## Hygienic Applications

Fruits and vegetables pulps and dices  
Fruit and vegetable creams  
Fruit bases  
Yoghurt with fruits  
Ketchup, tomato bases  
Marmalade  
Juices and soft drinks  
Beer malts  
Soups  
Wine must  
Grapes  
Pharmaceutical Injectable  
Vegetable fat and oil  
Dairy desserts





Copyright© 2008 REGOM INSTRUMENTS s.r.o.

Bez souhlasu REGOM INSTRUMENTS s.r.o. není dovoleno texty či obrazové materiály modifikovat, kopírovat, distribuovat, přenášet, zobrazovat, reprodukovat, publikovat, nebo pomocí nich vytvářet pozměněné materiály.

[www.regom.com](http://www.regom.com)