

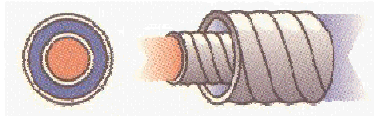
## Corrugated Tube Heat Exchangers

Our range of Corrugated Tube Heat Exchangers use corrugated tubes to enhance heat transfer. Two types of heat exchanger are available. The mono-tube design has a single tube within a tube and the multi-tube design has a number of tubes inside a shell.

Each design has variants for either industrial or hygienic applications. Construction can either be all welded or with removable tubes for ease of maintenance.

Specific product leaflets on our range of mono-tube and multi-tube units with demountable tubes are available on request.

### Mono-tube Design



#### Features

The mono-tube design comprises a single corrugated tube within a tube. The process fluid flows through the inner corrugated tube with the service fluid in the annular space between the inner and outer tube.

Units can be supplied either of all welded construction with expansion bellows in the outer tube or with a dismountable inner tube. This method of construction removes the need for expansion bellows and allows the inner tube to be replaced.

#### Applications

The mono-tube design is ideal for processing fluids containing large particulates or fibres up to 50 mm in diameter. Typical applications include:

- Sewage sludge heating
- Effluent water cooling
- Heating & cooling of sauces, purees & pulps
- Laundry & dye-house effluent heat recovery
- Milk, cream and juice heating
- High temperature & pressure applications

#### Advantages

- Higher thermal efficiency due to corrugated tubes
- Easy to clean
- Low maintenance

#### Materials

- Product side in AISI 316, AISI 316L, Duplex steels
- Service side in AISI 304
- Other materials available on request

#### Options

- Stainless steel frame
- Thermal insulation



Mono-tubes mounted on a stainless steel frame



Mono-tubes with hygienic clamp connections

## Multi-tube Design

### Features

The multi-tube design consists of a number of corrugated tubes within a shell. The process fluid flows through the inner corrugated tubes with the service fluid in the shell.

Units can be supplied either of all welded construction with expansion bellows in the shell or with a dismantlable tube bundle. This method of construction removes the need for expansion bellows and allows the tube bundle to be replaced.

### Applications

The multi-tube design is ideal for heating applications using steam, fluids containing fibres or small particles and slurries. Typical applications include:

- Steam heating of water & CIP solutions
- Water to water heat recovery
- Fluid heating using thermal oil
- High temperature sterilisation of milk, juices etc.
- Exhaust gas cooling
- High temperature & pressure applications

### Advantages

- Higher thermal efficiency due to corrugated tubes
- Easy to clean
- Low maintenance

### Materials

- Product side in AISI 316, AISI 316L, Duplex steels
- Service side in AISI 304
- Other materials available on request

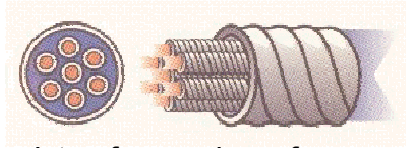
### Options

- Stainless steel frame
- Thermal insulation

## Other Products from UK Exchangers Ltd

As well as Corrugated Tube Heat Exchangers we offer a comprehensive range of heat exchangers, designed to meet the majority of applications:

- Air to Air Plate Heat Exchangers
- Thermal Wheels
- Finned Tube Coils
- Brazed & Gasketed Plate Heat Exchangers
- Hot Water Packaged Systems—Water to Water
- Hot Water Packaged Systems—Steam to Water
- All Welded Plate Heat Exchangers
- Heat Transfer Panels



Industrial all welded multi-tube



multi-tube with concentric reducers



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