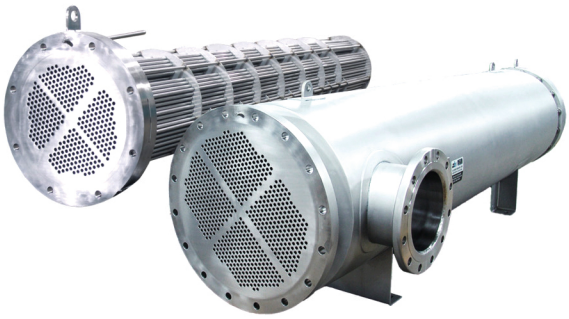
TUBE HEAT EXCHANGER

Product Description

A tube heat exchanger is a class of heat exchanger designs that primarily uses the principle of thermal conduction and convection to facilitate the exchange of heat. It involves the transfer of energy from one fluid to another through a tube wall.



How does it work?

In a typical design, one set of fluids—usually containing high-temperature materials—flows inside tubes while another set of fluids flows on the outer side. The wall of the tube acts as the medium of transfer, carrying heat from one fluid to another without mixing them. As a result, the fluid inside the tube is cooled, while the other gains heat.

Features:

1. Material Variability: Beite provides options for the shell material, which can be either carbon steel or stainless steel 304. This allows flexibility depending on the requirements of the specific application.

2. Tube Options:Beite offers a variety of tube materials including Stainless Steel 304, Stainless Steel 316L, and Red Copper, allowing customization based on the heat transfer needs.

3. Design Pressure: The heat exchangers are designed to operate across a broad range of pressures, from 6 bar to 25 bar.

4. Easy Maintenance and Inspection: The design of Beite's heat exchangers allows for easy maintenance and inspection. Critical components like the tube bundle can be removed for inspection or replacement as necessary, reducing downtime and facilitating regular upkeep.

The features and benefits may vary depending on the model chosen and the specific requirements of your application. Beite is committed to ensuring that each product delivers on quality and performance.

Application

Tube heat exchangers are suitable for various applications across different industries such as power plants, oil refineries, HVAC systems, and in certain manufacturing processes.

Specification

Model	Heat Area (m^2)	Shell Diameter (mm)	Height (mm)	Pressure (Bar)
BTLG300-5.1-0.6	5.1	300	1700	6
BTLG300-5.1-1.0				10
BTLG300-5.1-1.6				16
BTLG300-6.8-0.6	6.8	300	1960	6
BTLG300-6.8-1.0				10
BTLG300-6.8-1.6				16
BTLG300-8.5-0.6	8.5	300	2210	6
BTLG300-8.5-1.0				10
BTLG300-8.5-1.6				16
BTLG400-8.7-0.6	8.7	400	1730	6
BTLG400-8.7-1.0				10
BTLG400-8.7-1.6				16
BTLG400-11.7-0.6	11.7	400	1990	6
BTLG400-11.7-1.0				10
BTLG400-11.7-1.6				16
BTLG400-14.6-0.6	14.6	400	2120	6
BTLG400-14.6-1.0				10
BTLG400-14.6-1.6				16
BTLG500-19.3-0.6	19.3	500	2240	6
BTLG500-19.3-1.0				10
BTLG500-19.3-1.6				16
BTLG500-24.1-0.6	24.1	500	2370	6
BTLG500-24.1-1.0				10
BTLG500-24.1-1.6				16
BTLG600-28.1-0.6	28.1	600	2160	6
BTLG600-28.1-1.0				10
BTLG600-28.1-1.6				16
BTLG600-35.2-0.6	35.2	600	2410	6
BTLG600-35.2-1.0				10
BTLG600-35.2-1.6				16
BTLG600-42.2-0.6	42.2	600	2900	6
BTLG600-42.2-1.0				10
BTLG600-42.2-1.6				16

Note: This is a rudimentary catalog. For more specific information, it would be best to refer to the detailed product manuals or contact Beite directly.