

Heat Exchangers: Theory and Selection

Heat exchangers are devices that transfer heat between two fluids. They can transfer heat between a liquid and a gas (i.e., a liquid-to-air heat exchanger) or two gases (i.e., an air-to-air heat exchanger), or they can perform as liquid-to-liquid heat exchangers. These devices are used in many applications, such as air conditioning, gas turbines, automobiles and electronics cooling. For example, the radiator in a car is a water-to-air heat exchanger that cools the heated water returning from the engine.

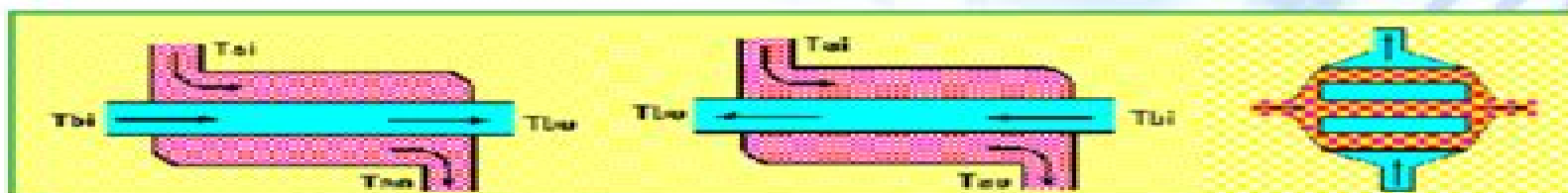


Figure 1. Parallel flow in a heat exchanger.

Figure 2. Counter flow in a heat exchanger.

Figure 3. Cross flow heat exchanger.

The many types of heat exchangers can be characterized by flow arrangement and construction. Some common examples are parallel flow heat exchangers, in which both fluids move in the same direction (Figure 1); counter flow heat exchangers, with fluids moving in the opposite directions (Figure 2); and cross flow heat exchangers, where one fluid moves perpendicular to the other (Figure 3).

The cross flow exchanger can be arranged so that one fluid is confined to a tube and the other fluid mixed, or both fluids can be confined to tubes and unmixed. The tubes can have any geometry such as flat or round.

Shell and tube exchangers with different numbers of shells are industrial type exchangers (Figure 4). Compact heat exchangers have very large surface areas, typically on their gas side. Since the gas side has a much smaller heat transfer coefficient compared to the liquid side, increasing the surface area reduces the total resistance on the gas side. In this type of heat exchanger, the tubes have fins on the outside, or parallel plates are attached to maximize the air side surface area.

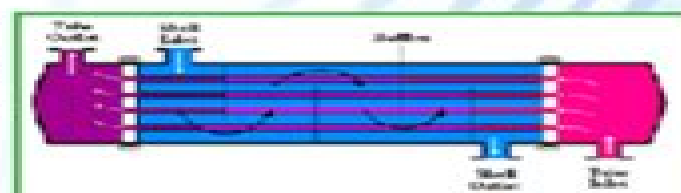


Figure 4. Shell and tube heat exchanger.

The most fundamental variable in heat exchanger design is the definition of the overall effective heat transfer coefficient, U [1]. The formula is:

$$\frac{1}{UA} = \frac{1}{(hA)_c} + R_c + \frac{1}{(hA)_h} + R_h$$

Where:

U = overall effective heat transfer coefficient

A = area of the hot or cold side of the fluids,

h = heat transfer coefficient for either the cold or the hot side

R_c = conduction resistance of the material separating the hot and cold fluids.

R_h = fouling factor

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