Heat Exchanger Technology

by Harry

Article published on April 6th 2012 | Business

In the business of cooling engines, the heat exchanger is one of the units which are the heart of the whole process. The exchanger may be oil cooled or water cooled. In small automobiles and small industrial applications the water cooling system is adopted since it is more economically viable. In the case of huge machines like ships and boats one must use the oil cooling technique because oil has a higher specific capacity of heat.

A heat exchanger is a piece of equipment built for efficient heat transfer from one medium to another. The media may be separated by a solid wall, so that they never mix, or they may be in direct contact. They are widely used in space heating, refrigeration, air conditioning, power plants, chemical plants, petrochemical plants, petroleum refineries, natural gas processing, and sewage treatment.

A heat exchanger utilizes the fact that heat transfer occurs when there is a difference in temperature.

In a heat exchanger, there is a cold stream and a hot stream. The two streams are separated by a thin, solid wall. The wall must be thin and conductive in order for heat exchange to occur. Yet the wall must be strong enough to withstand any pressure by fluid. Copper seems to be one of a common choice for construction.

Heat exchangers are products you can use for that alternation in heat in a single fluid to another. Once your automobile engine is getting hot, the odds are the heat exchanger might be the issue. Each time a heat exchanger goes bad, and important things go wrong. You almost certainly think of it as a radiator, nonetheless its one kind of heat exchanger. Within your radiator, antifreeze cools air that flows past it. This air is going to be blown having a fan towards the engine to keep it awesome. Once the radiator doesn't work properly, you won't be driving very far until things are fixed.

The most common household heat exchanger can be found in a refrigerator. Your home heating also provides a heat exchanger. In your furnace there is a combustion chamber. There's metallic wall that separates the vehicle in mid-air that flows past the heat exchanger and also on using the tubes to heat your home. You will need this separation because you wouldn't like the toxic gases inside mixing while using air that's distributed throughout your home. In the last example, a faulty heat exchanger can result in a divided automobile, but within your house you might be gambling along with your way of life.

Article Source:
http://www.articleside.com/business-articles/heat-exchanger-technology.htm - Article Side

Harry - About Author:
Best online shop for Marine Engine, a Heat Exchangersand a Oil Coolers. We are Supplies heat exchangers and other heat transfer equipment for the process industry. We provide low maintenance and durable heat exchangers with unique designs and high heat transfer rates.

Article Keywords:

Oil Cooler,Heat Exchanger

You can find more free articles on Article Side. Sign up today and share your knowledge to the community! It is completely FREE!