



# Shyam Heat Exchangers

ISO 9001:2015 Certified



Head office

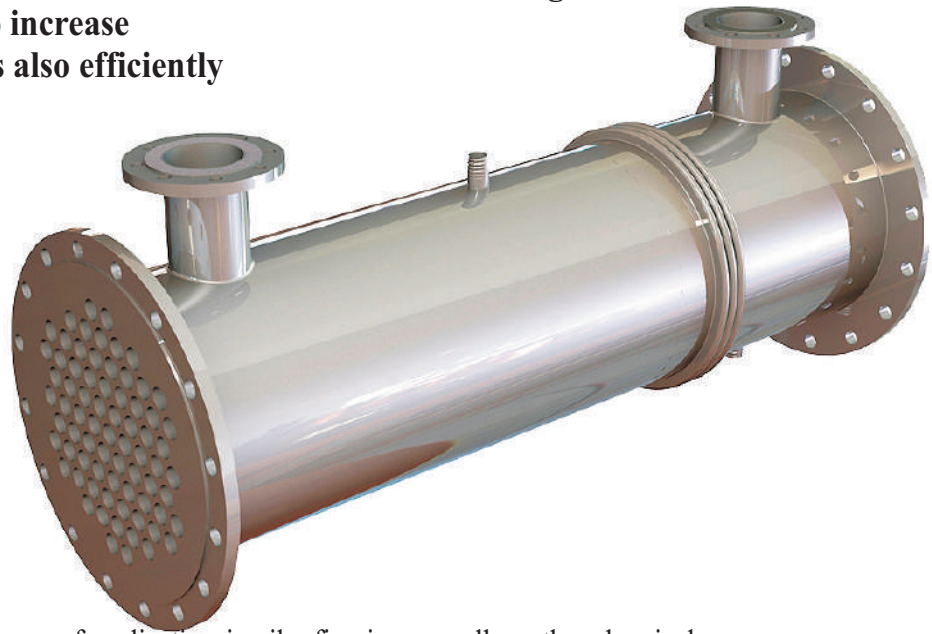
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# Shell & Tube Heat Exchanger

We, at Shyam Heat Exchanger, manufacture and supply heat exchangers with a large heat transfer that facilitates maximum amount of heat exchanger. Our heat exchangers carry many tubes to increase the heat exchange. Waste heat is also efficiently utilized conserving energy.



Shell Tube Heat Exchangers have a wide range of applications in oil refineries, as well as other chemical processes. They aid in high-pressure applications. They are made up of a large pressure vessel called the shell which has many tubes inside it. This is the reason it is known as “shell tube heat exchanger”. The set of tubes is called a tube bundle comprising various types of tubes like plain, longitudinally finned, et al.



Many people consider the shell tube heat exchanger as the best. They cool hydraulic fluid, as well as oil, in engines. They also cool or heat the water in swimming pools. The common applications of these heat exchangers include:

1. Oil refineries
2. Food and beverages industry
3. Hydropower and thermal power
4. Sugar industries
5. Pharmaceutical industries
6. Cement industries
7. Hydraulic and pneumatic industries
8. Induction and furnaces
9. Glass industries

## Advantages of Shell Tube Heat Exchangers

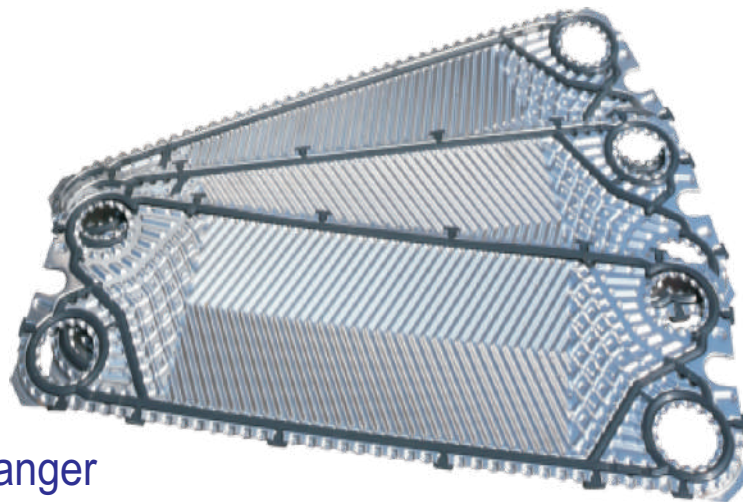
1. Pressure drop across the tube cooler is a little less
2. They are great for the systems that demand high operating pressure and temperature
3. It is easy to locate and plug the tube leaks as a pressure test can be easily carried out



# Plate Heat Exchanger

Plate heat exchangers incorporate metal plates to facilitate efficient heat transfer between the two fluids

They are better than the conventional heat exchangers because fluids get a larger surface area as they spread over the plates. The transfer of heat and speed of temperature change

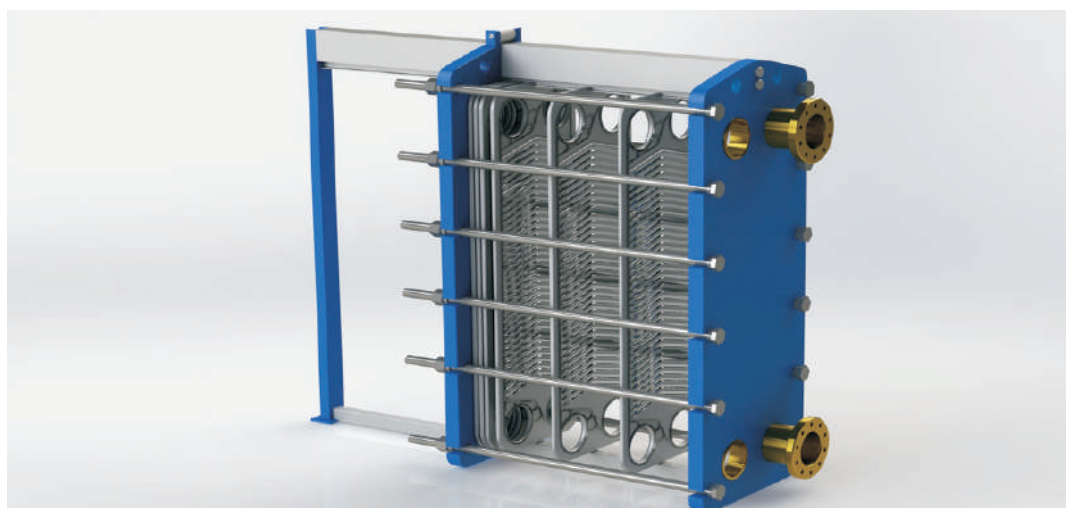


## Type of Plate Heat Exchanger

**Plate heat exchanger:** This type of heat exchanger uses metal plates in order to transfer the heat between the two fluids.

**Welded plate heat exchanger:** In these types of heat exchanger, the plates are welded in order to enhance the pressure, as well as temperature limits.

**Pasteurizer:** It is used for the heat treatment of milk. It is used in food and beverage industry.



## Applications of Plate Heat Exchanger

The applications of plate heat exchanger include

1. These types of heat exchanger are used in pharmaceutical industry
2. They are also used in food and beverage industry, as well as sugar industries

## Advantages of plate heat exchanger

1. The plate heat exchanger offers a high value of heat transfer coefficient
2. The plates can be added or removed to enhance or bring down the heat transfer capacity.

# Aircooled Heat Exchanger

**Air Cooled Heat Exchanger's** also known as Fin Fan heat exchangers are typically used in applications where water is not available or the desired process outlet temperature can be achieved given the maximum ambient temperatures. ... Air Cooled Heat Exchangers are used in a wide variety of applications.

**Cover plate configuration**

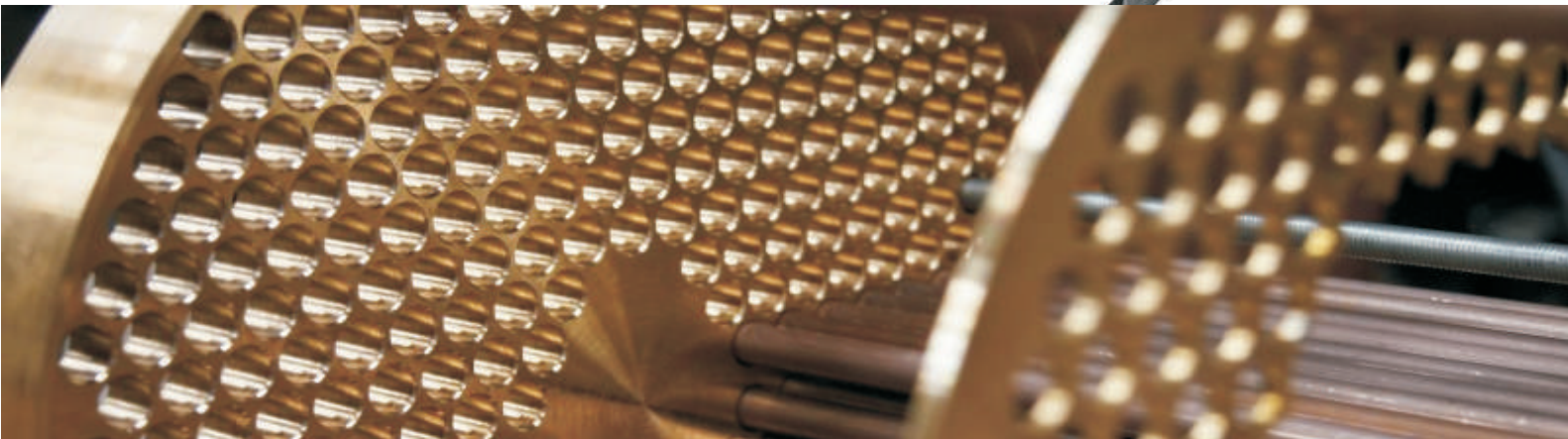
**Plug box configuration**

**Pipe & bend configuration**

## **Finning**

Together with header features, finning of the tubes is key to air cooled heat exchanger performance. GE produces three types of finning.

## **Extruded**



Air cooled condensers are preferred to water cooled condensers when there are special environmental or watershortage conditions. The steam condenser is a vacuum-tight, air cooled heat exchanger, usually with bundles sloped at approximately 30° to reduce the footprint and with 100% fully welded connections.



# About Company

Shyam Heat Exchangers, the leading manufacturer of Shell Tube Heat Exchangers and Plate Heat Exchanger, oil coolers, electric heat exchanger, heat condenser etc. Shyam Heat Exchangers is a family owned business that was established in the year 2015. Our business lays special emphasis on producing supreme quality products ensuring top-notch service with utmost customer satisfaction.



**Customer Commitment:** Meet Requirements. Solve Problems. Stretch to meet needs

**Continuous Improvement:** Change for the Better.

**Results Driven:** Resourceful, profitable growth, financial stewardship.

**Competence:** Skills, knowledge, expertise.

**Trustworthiness:** Honesty, integrity, ethics.

We continue to work towards achieving our goals and building lifelong relationships with our clients. Our aim is to enhance productivity along with efficiency. We strictly abide by our core values and aim to become better with the passing time.



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