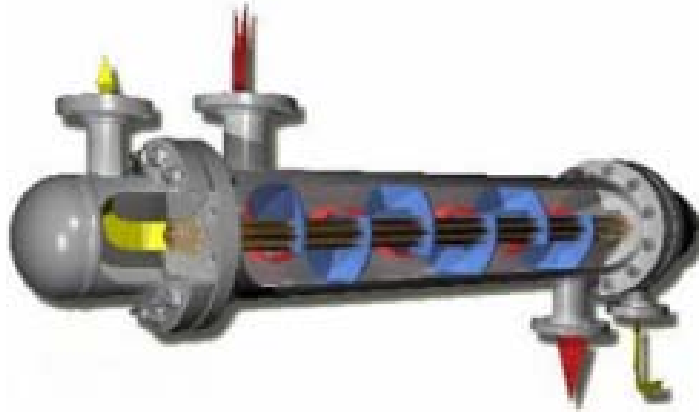




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## Shell & Tube Heat Exchangers



### Performance:

Shell & Tube Heat Exchangers (S&T) have been used by industry for over 300 years and is the traditional way to transfer large quantities of heat for a range of heating and cooling duties.

High temperature and pressure applications allow S&T units to be the leader in oil refining and complex process systems around the world.

When an application requires low pressure drops and approach temperatures greater than 5 degrees C . In combination with high temperature a S&T unit is the only viable unit to achieve such a set of conditions.

**AHTT Shell & Tube Heat Exchangers are manufactured in an ISO 9001 quality approved manufacturing facility, to meet all international heat exchange standards.**

### Experience:

World-class designers and manufacturers of heat transfer equipment. Which feature robust industrial strength construction and efficient designs, while optimising available environmental resources and cost. In-house heat transfer software for specific applications and in addition, the use of proprietary heat transfer design packages including AspenTech BJAC, ensures an accurate design.

Experience includes heat exchangers for extreme pressure gases; oil field / refinery & gas processing equipment; barometric surface condensers; calorifiers; boiler feed water heaters; air & gas compressor inter & after-coolers; carbon dioxide condensers; kettle re-boilers & evaporators; sub-coolers & superheaters; hydraulic & lubrication oil coolers; generator stator & bearing coolers and transformer coolers for electric utilities.

The capacity range built to date includes sizes from small hydraulic oil coolers weighing a few kilograms to multi-MW class vacuum steam condensers for combined cycle power plants - of 300 tonnes or more.

**ISO9001 Quality Certified Manufacture**

## Features Of The S&T

### Low Pressure Drops :

The traditional shell and tube heat exchanger is renowned for its ability to transfer heat with very small pressure drops.

### High Temperature/Pressure:

With all welded construction much higher temperatures and pressures can be reached

### Excellent versatility :

The S&T can be constructed to service a multitude of applications, in material ranging from carbon steel, stainless steel and Titanium. Additional materials on application maybe available.



## Some Typical Applications:

### Chemical Industry

Cooling of Soda, Pigments, Fertilisers, Refined Oils, Oil and Fat, Medicines, Acids, Kerosene, Soft Water, Brine, Hexane, Polymerisation Process and Heating of Glycerine and Condensing of Ethanol, Hydrogen Sulphide cooling



### Steel Industry

Cooling of Mould, Furnace, Coking Plant, Casting Facilities, Ammonia Water, Electrolysis Gilt, Compressor, Oil Press Oil, and Recovering of Waste Heats.

### Mechanical Industry

Cooling of Mechanical Apparatus, Emulsion, Press Oil, Grinding Liquid, Furnace, Engines, and Waste Heat Recovery.

### Textile Industry

Cooling of Cleaning Water for Spinning and Weaving, NaOH Liquid, and Dyeing Water. Recovering of Waste Heats.

### Automotive Industry

Spray Booth Cooling of Heat Treatment Liquids, Cutting Liquids, Coating, and Spray Booth Paint and Heating of Pre-treatment Liquid.

### Various Other Applications

Heat Transfer and Waste Heat Recovery of Electric, Electronic, Semiconductor, Factories, Power Stations, Sea water, oil fields