

Shell and Tube Heat Exchanger

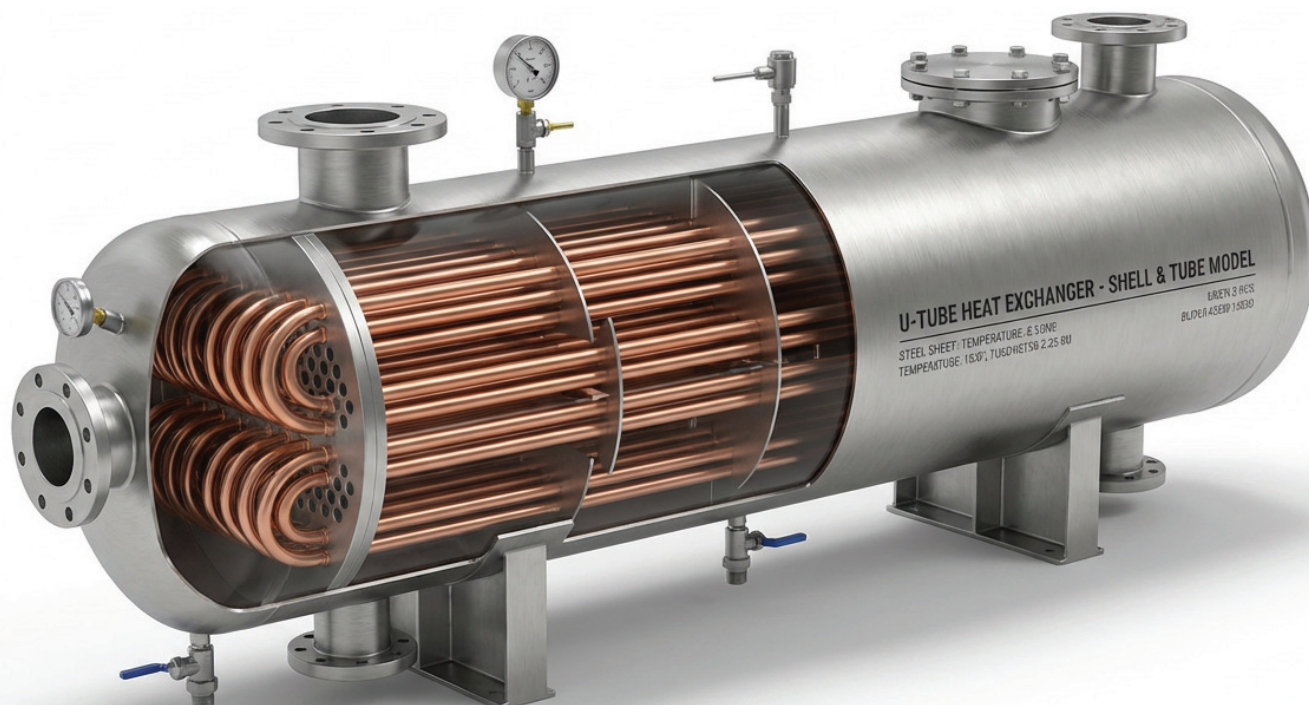
Introduction

Shell and tube heat exchangers are the most widely applied heat transfer equipment in oil and gas, petro-chemical, power, and chemical industries due to their proven reliability and flexible design. Our company has extensive experience in the manufacturing of shell and tube heat exchangers for demanding process services, supplying equipment for refineries, gas processing units, utility systems, and chemical plants.

By combining qualified welding procedures, precision machining, strict quality control, and material traceability, we deliver exchangers that meet international standards such as ASME, TEMA, and PED, ensuring long term performance under high pressure, temperature, and corrosive conditions.

Main Components

- **Shell:** A cylindrical housing that contains the tube bundle and shell side fluid.
- **Tube bundle:** A set of tubes that carry the tube side fluid.
- **Tube sheets:** The tubes are rolled or welded into the tube sheets to create a tight leak seal, ensuring tube side and shell side fluids do not mix.
- **Support plates/baffles:** Support and maintain the spacing of tubes.
- Force the shell side fluid to flow back and forth across the tubes, improving heat transfer efficiency.
- **Channel/heads:** Used for directing tube side fluid into and out of the tubes.



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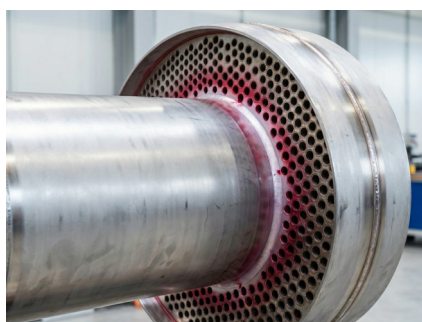
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Features

- **Wide range of configurations:** Fixed tubesheet, U-tube, floating head, double tube sheet, and removable bundle designs.
- **Flexible materials of construction:** Carbon steel, stainless steels (304/316/321), duplex, nickel alloys, titanium, and clad materials.
- **High heat transfer:** Efficiency achieved through optimized tube layout, baffle design, and enhanced tube surfaces when required.
- **Precision fabrication:** CNC machining, qualified tube-to-tubesheet expansion and welding, controlled alignment, and dimensional accuracy.
- **Full compliance with international standards:** Such as ASME Section VIII, TEMA, and customer specific specifications.
- **Inspection and testing:** Hydrostatic testing, radiography, dye penetrant, and helium leak testing upon request.

Applications

- **Petrochemical and chemical plants:** Reactor feed heating, condenser and reboiler services
- **Crude oil and refinery units:** Product coolers, feed preheaters, overhead condensers, and side stream exchangers
- **Gas processing and LNG plants:** Gas coolers, amine and glycol regeneration units, and compressor after coolers
- **Power and utility systems:** Boiler feedwater heaters, lube oil coolers, and closed loop cooling systems
- **Offshore and onshore facilities:** Compact, high pressure exchangers for harsh operating environments



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