

Shell and Tube Heat Exchanger

Shell and tube heat exchangers are a class of heat exchanger designs commonly used in oil refineries and large chemical processes. This type of exchanger consists of a shell with a bundle of tubes inside, facilitating heat transfer between fluids.



Overview

Industrial Heat Exchange Efficiency

The Shell and Tube Heat Exchanger is a robust solution designed for demanding industrial environments, including oil refineries and large-scale chemical processing. Engineered for high-pressure applications, this unit features a primary shell vessel containing a complex tube bundle. This design facilitates efficient thermal transfer by allowing one fluid to circulate through the tubes while a second fluid flows over them within the shell.

Technical Specifications

Tube Bundle Configurations

- Plain tubes
- Longitudinally finned tubes

Design Classification

Shell and Tube

Primary Applications

Oil Refineries, Chemical Processing, High-Pressure Systems