

Pressure Vessels



A pressure vessel is a container designed to hold gases or liquids at a pressure substantially different from the ambient pressure. Pressure vessels can be dangerous, and fatal accidents have occurred in the history of their development and operation.

Heat Exchanger



What is a **heat exchanger**? Suppose you have a gas central **heating furnace (boiler)** that heats hot-water radiators in various rooms in your home. It works by burning natural gas, making a line or grid of hot gas jets that fire upward over water flowing through a network of pipes.

Oil Cooler



Oil cooling is the use of engine **oil** as a coolant, typically to remove surplus heat from an internal combustion engine. The hot engine transfers heat to the **oil** which then usually passes through a heat-exchanger, typically a type of radiator known as an **oil cooler**.

Air Cooler



Primary air fan is used to transport the pulverized coal from mills to the furnace area. So its main function is the carry the fuel to the furnace for the combustion.

Condensers



A surface **condenser** is a commonly used term for a water-cooled shell and tube heat exchanger installed on the exhaust **steam** from a **steam turbine** in thermal power stations. These **condensers** are heat exchangers which convert **steam** from its gaseous to its liquid state at a pressure below atmospheric pressure.

Distribution Header



A **steam header** at the boiler house provides a useful centralised starting point. It provides an extra separating function if the boiler separator is overwhelmed, and **means** of allowing the attached boilers to share the **distribution** system load.

Hoppers



A container for a loose bulk material such as grain, rock, or rubbish, typically one that tapers downward and is able to discharge its contents at the bottom.

Over Head Cranes



An **overhead crane**, commonly called a **bridge crane**, is a type of **crane** found in industrial environments. An **overhead crane** consists of parallel runways with a traveling **bridge** spanning the gap. A **hoist**, the lifting component of a **crane**, travels along the **bridge**.

All Type of Shed



A simple roofed structure used for garden storage, to shelter animals, or as a workshop.

Piping



Within industry, piping is a system of pipes used to convey fluids from one location to another. The engineering discipline of piping design studies the efficient transport of fluid.

Structure



Structural steel is a category of steel used for making construction materials in a variety of shapes. Many structural steel shapes take the form of an elongated beam having a profile of a specific cross section.

Boiler Refractory



A **refractory** material or **refractory** is a heat-resistant material, e.g. a mineral that is resistant to decomposition by heat, pressure, or chemical attack, most commonly applied to a mineral that retains strength and form at high temperatures..