

## Furnace

Chemical industries such as oil and gas and petrochemicals include various processes, many of which it is necessary to heat the process fluid to a certain temperature. That fluid can be water, crude oil, various hydrocarbons, or oils. The furnace is used in industries to obtain very high-temperature fluid. The furnace is a type of heat exchanger. Still, its difference from other exchangers is that the dimensions of the furnaces are much larger. Furnaces are used in various industries, especially oil and gas. One of the applications of the furnace in the oil refining industry is to preheat the feed of distillation columns.



## Feed preheater for distillation columns

In some distillation operations, it is necessary to heat the feed before entering the column. For example, in refineries, heat the crude oil before entering the distillation column; the initial heating of the feed is done in furnaces.



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