Waste Oil to Diesel Refining Equipment

This equipment refines waste oil into diesel fuel through a continuous process. It uses heat and a special catalyst to convert waste oil into gas, which is then separated, cooled, and filtered into a refined diesel product.

Overview

Continuous Waste Oil Refining System

This automated, continuous processing equipment is engineered to transform various waste oils—including used engine oil and industrial oil—into high-quality diesel fuel. The system utilizes a specialized catalytic process within a sealed melting furnace to efficiently dissociate oil molecules, ensuring consistent output. Designed for large-scale recycling operations, the equipment features robust stainless steel construction, advanced temperature and pressure control, and a continuous flow design to minimize downtime.

Technical Specifications

Construction Materials

- Stainless steel tanks
- Stainless steel piping

Processing Method	Catalytic distillation and continuous refining
Compatible Feedstock	Used Engine Oil, Industrial Oil, Oily Wastes

Key Components

System Components

Component	Function
Sealed Melting Furnace	Initial raw material heating and gasification
Distillation Columns	Separation of refined oil products
Condensers	Cooling and phase transition
Control Panels	Temperature and pressure regulation

Operational Features

Operational Benefits

Continuous Operation • Automated Control • High Durability • Safety Mechanisms