

# Vacuum Distillation Units: High-Purity Oil Recovery from Pyrolysis Outputs

Our Vacuum Distillation Units (VDUs) are engineered for efficient, high-purity oil recovery from pyrolysis-derived feedstocks. Whether your goal is to produce industrial-grade or fuel-grade oil, these systems provide a robust, energy-efficient solution tailored for modern pyrolysis operations.

## Key Features & Advantages:

- **Self-Sustaining Operation:** Utilises pyrolysis gas as the primary energy source, significantly reducing operating costs and external fuel dependency.
- **Flexible Configurations:** Available in both simplified designs and advanced column-based systems, allowing you to choose the right setup for your scale and purity requirements.
- **Purity Control with Additives:** Integrated additive dosing controls TAN (Total Acid Number), as well as oxygenates, chlorides, and sulphur levels—ensuring consistent output quality.
- **Precision Distillation:** Operates under vacuum to lower boiling points and minimise thermal degradation, producing cleaner, higher-value oil fractions.

## Application Scope:

- **Fuel-Grade Oil:** Ideal for blending or use in power generation, industrial burners, or marine fuels.
- **Industrial-Grade Oil:** Suitable for solvents, process oils, and chemical feedstock applications.

## Designed for Circular Efficiency

Our VDUs close the loop in pyrolysis by converting low-value tars and heavy oils into refined, usable products—supporting waste valorisation, cleaner energy, and operational profitability.

[Contact us today to discuss which Vacuum Distillation Unit is best suited to your pyrolysis setup.]