

# VM Removal Machines (Thermolyser): Volatile Matter Extraction for Clean Pyrochar (rCB)

Our VM Removal Machines, also known as Thermolysers, are engineered for one critical purpose: to extract volatile matter from pyrochar (recovered carbon black) and produce a cleaner, more refined material ready for high-performance applications.

## Designed for Purity, Built for Performance

Volatile matter in pyrochar can compromise product consistency, colour, and safety. Our Thermolyser system addresses this challenge head-on, using a precision-controlled thermal process to remove residual oils, tars, and organic compounds—without degrading the carbon structure.

### Key Features:

- **Advanced Thermal Control:** Operates at high temperatures in an inert or oxygen-limited environment to efficiently drive off volatiles.
- **Scalable Throughput:** Custom-built to match your production scale, from pilot-scale testing to full commercial output.
- **Integrated Emission Controls:** Designed with scrubbers and afterburners to reduce VOCs, ensuring environmental compliance.
- **Minimal Material Loss:** Carefully calibrated to preserve the carbon backbone while reducing VM to as low as 5% or below.
- **Modular & Retrofittable:** Can be added to existing rCB processing lines or installed as part of a new plant.

### Why VM Removal Matters:

- **Improves Colour & Jetness:** Reducing VM enhances blackness, allowing better pigment performance in rubber and plastics.
- **Reduces Odour & Residues:** Clean pyrochar means fewer odour complaints and smoother downstream processing.
- **Boosts Compatibility:** Enables rCB to be used in more sensitive applications such as masterbatches, paints, and certain tyre compounds.
- **Increases Market Value:** Low-volatile rCB commands higher prices and expands your customer base.

### Trusted by Carbon Black Producers

Whether you're upgrading tyre pyrolysis output or refining mixed-feed char, our Thermolyser gives you a powerful edge in quality control and product appeal.

This is not just another piece of equipment—it's your gateway to premium-grade carbon black production.

[Contact us today to learn how the Thermolyser can elevate your rCB operation.]