LINESIG

Vapour Control
Cleaner Air
Product Recovery

LNS-VRU-WET

Vapour Recovery Unit

Vacuum-Regenerated VRU for Hydrocarbon Vapour Collection, Treatment and Product Recovery



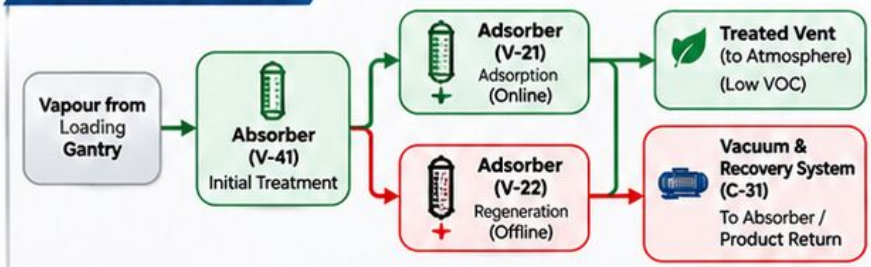
Overview

The **LINESIG LNS-VRU-WET** is a vacuum-regenerated vapour recovery unit (VRU) designed to collect, treat and recover hydrocarbon vapours displaced during tanker, truck, rail or marine loading operations. It uses activated carbon adsorption with vacuum regeneration and a recovery stage to return the captured hydrocarbons to the product system.

Key Applications

- Oil & Gas Production Sites
- Tank Farms & Terminals
- Truck & Rail Loading Racks
- Marine Loading Jetties
- Chemical & Petrochemical Plants
- Pipeline Operations

How It Works



Alternate carbon beds capture hydrocarbons (VOC) from the vapour stream. The offline bed is regenerated under vacuum, and the recovered hydrocarbons are condensed in an absorber and returned to the product system.

Key Features

- Activated carbon adsorption with vacuum regeneration
- Two or more adsorber vessels (automatic changeover)
- Dry screw vacuum pump system
- Absorber-based hydrocarbon recovery
- PLC-based automatic sequencing and monitoring
- Packaged and skid-mounted design
- Engineered for terminal and industrial service conditions

Benefits

Environmental Compliance
Eliminates ≥95% of VOC and methane emissions to meet regulatory limits.

Product Recovery & Revenue
Recovers valuable hydrocarbons (e.g., gasoline) for reuse or return to the system.

Safety Enhancement
Lowers tank back-pressure and reduces fire, explosion and odour risks.

Operational Reliability
Automatic, cyclic operation with proven industrial components.

Flexible & Scalable
Configurable for vapour composition, loading profile and terminal requirements.