

Membrane Recovery Unit



AEREON's Jordan Technologies, working collaboratively with Membrane Technology & Research, Inc. (MTR), introduced the VaporSep membrane vapor recovery system. Jordan's years of project management and engineering services experience, combined with MTR's years of membrane development and research allows us to treat a wider range of chemicals and offer an option for recovery other than combustion for tank and truck loading facilities.

AEREON's Jordan and MTR have significant experience in hydrocarbon recovery systems. More than 100 large units have been installed in petrochemical applications to recover butane, pentane, hexane and other hydrocarbons. Hundreds more units have been installed for gasoline vapor recovery at truck loading and retail gasoline stations.

The VaporSep VRU is designed specifically to offer a more feasible way to treat vapors that are not compatible with a carbon based system. The membrane's separation efficiency is custom designed for each application.

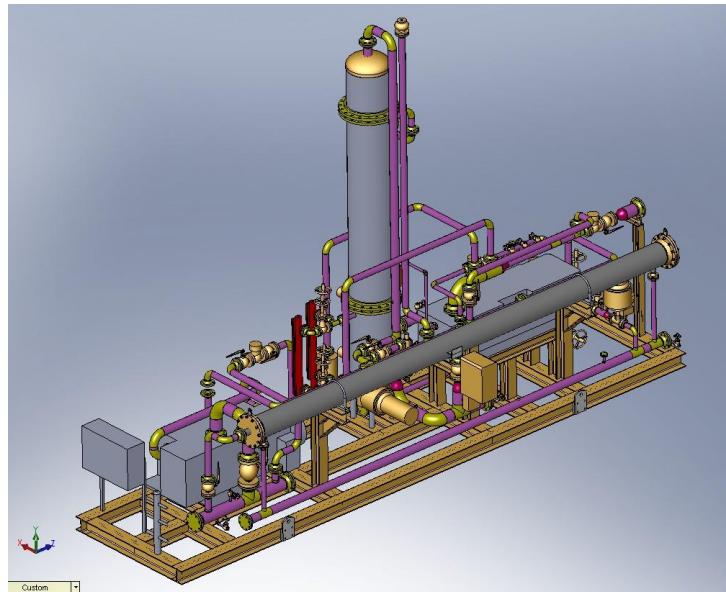
Design Features

- A better alternative for plants that handle petro-chemicals & chemicals.
- Compatible with a wider range of hydrocarbons & various crudes.
- Compact design; a smaller footprint compared to the equal sized carbon system.
- Steady state process for constant flow design applications.
- Fewer moving parts & control requirements compared to other technologies.
- Inlet compressor eliminates process pressure drop issues; inherently safe design.

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Principal Applications

- Truck loading
- Marine loading
- Rail loading
- Tank breathing applications
- Petrochemical



Standard Features

- All PLC shutdowns are tabularized and stored
- Electrical equipment built to local standards
- Allen Bradley controls and drives
- variable speed drive absorbent return pump
- Wonderware HMI package

Choose Your VRU

- Liquid ring or dry vacuum pumps
 - Graham
 - Nash
 - Hori
 - Busch
- 10mg/l, 1mg/l, 0.15mg/l emission limit designs when used with a carbon system.
- Custom built to your specifications
- USCG compliant
 - 33 CFR Parts 154, 155, and 156
 - 46 CFR Parts 35 and 39
- USCG compliant Dock Safety Skids and Vapor Blower Skids
- Remote monitoring by our service group
- Continuous Emission Monitor (CEM)
- Continuous Inlet Monitor (CIM)
- Remote HMI interface screens
- Custom reports and trending software package