

Air Purification Solutions

Products for the Petroleum Refinery Market



The Honeycomb Matrix

Air Purification Solutions with HM™ Technology

MeadWestvaco's Honeycomb Matrix activated carbon represents the future shape of air purification technology.

MWV has more than 30 years of experience in delivering purified air solutions for applications in industrial environments. The newest innovation in vapor adsorber systems includes proprietary Honeycomb Matrix activated carbon, and expands the traditional applications beyond motor control centers, control rooms, computer centers and switch gear rooms. The HM technology is ideal for areas such as motor cooling, odor control, contaminant removal, and air purification. The technology is applicable in both industrial and commercial environments.

Pressurization and Protection Systems for Refinery Operations

MWV is committed to helping customers protect electrical and electronic rooms. Whether the issue is corrosion, odor or contaminant removal, MWV works with you to find the right product to do the job.

The refinery market has unique operational needs. We've redesigned our pressurization and protection systems for refinery operating platforms. The HM technology incorporates engineering design to increase the air stream contact with the reactive areas of the activated carbon. The refinery system reduces the pressure drop and allows for fast and effective contact at velocities up to six times greater than traditional palletized carbon beds. Dust issues historically associated with pellet-based systems are not an issue with HM technology. In fact, costly HEPA filters required for pellet systems are not necessary for HM systems.

Simpler, Smaller, Energy Efficient

New designs associated with HM™ technology create advantages over traditional pellet-based air purification systems.

- MWV HM units have an increased rate of gas adsorption.
- MWV HM's low pressure drop allows for increased equivalent bed depth.
- MWV HM systems reduce maintenance costs – no vacuum trucks or HEPA filters required.
- MWV HM units reduce energy consumption by requiring half the horsepower of pellet based systems.
- MWV HM's have a 60% smaller footprint than traditional pellet based systems.
- MWV HM units can be customized to meet specific gas concentration levels and customer specific application needs.

Honeycomb Matrix Standards of Excellence

MWV products meet the highest standards of safety, compliance and industry regulations. Units can be designed to meet specific requirements detailed by any of the following organizations.



National Fire Protection Association

The authority on fire, electrical, and building safety



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Products for Petroleum Refineries

Honeycomb Matrix Vapor Adsorber Units



- Maintains proper room pressurization
- Customizable for new or existing buildings
- Economical, small footprint, energy efficient
- Excellent kinetics at 500 ft/min face velocity
- Sized from 100 cfm to 30,000+ cfm
- Protection of Electrical and Electronic Control Systems

Room Sentry



- Continuously monitors all environmental factors affecting atmospheric corrosion of electronic systems
- An LCD panel shows real time temperature, relative humidity, room pressurization and corrosivity of the protected space
- Provides a 4-20 mA or 0-10VDC output for each monitored parameter for facility wide monitoring from a central location.
- Easily installed on the wall in a protected space
- Designed to accept 24 VDC or 24 VAC power, with optional 110 VAC to 24 VAC transformer

Honeycomb Matrix Modules



- Easy to install (no need for vacuum trucks)
- Economical, energy efficient
- Ideal for all industrial and commercial markets

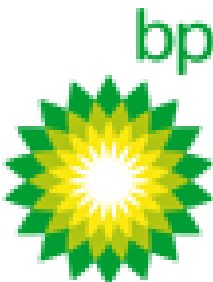
Disposable Module Honeycomb Matrix (DMHM)



- HM technology to replace in-room system pellet V-beds
- Clean, dust-free compared to traditional pellet systems
- Much lower pressure drop compared to pellets

Helping Petroleum Refinery Operations Improve Air Quality Around the World

MWV is known for working with industrial applications big and small. It's not surprising that our products are chosen by leading companies in the petroleum refinery industry to meet the highest standards of safety, air quality control, corrosion protection and odor removal.



Contact your local MWV Specialty Chemicals sales professional today!

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