

CLEAN AIR UPDATE

AHR Expo 2010 Show Issue

Why Room Protection Matters

Do you answer “yes” to any of these questions?

- Has your equipment ever failed due to poor air quality?
- Have you had new HVAC installed after corrosion issues?
- Have you recently considered new construction or renovation of existing control or work rooms?
- Are new equipment installations in your organization’s future?
- Have you recently consolidated control rooms?
- Does your organization place an emphasis on reliability and availability of its equipment?
- Has your operation suffered a serious down time event or motor failure?
- Do you plan and budget for equipment failures?
- Is your organization pushing you to reduce costs, save money and work more efficiently?

If you’ve answered yes to even one of these questions, then room protection may be a concern for your consideration. Studies by MWV show that an atmosphere that produces an equivalent annual corrosion rate greater than 0.1 microns causes unacceptable numbers of corrosion related failures of sensitive electronics.

Using a database of thousands of pre-monitored sites, which relates coupon data to the historical occurrence of corrosion related control equipment failures in the same environment, MWV’s Air Purification Group can evaluate the potential consequences of the corrosion indicated by the coupons.

The Group’s goal is to reduce costly downtime and equipment repairs for its customers by providing an environment that has a corrosion rate below 0.03 microns per year.

ISA Class	G1	G2	G3	GX
Definition	Mild	Moderate	Harsh	Severe
Copper Coupon Film Thickness¹	0-0.03	0.03-0.1	0.1-0.2	0.2+

¹Measured in microns

MWV Air Purification Group introduces Clean Air Update

MWV’s Air Purification Group provides sales and follow-up service for air purification equipment and media. In addition to the products we manufacture, our consultation services include room construction, pre-application, room sealing, and project and media replacement supervision.

Our follow-up service program includes onsite visits to gather corrosion data, examine the protected space(s), equipment and media inspection, and comprehensive reporting.

Our customer commitment is to provide continual improvement in our equipment and media to create and maintain an environment that is free of odors, corrosion and contaminants. Also, we hope to communicate frequently with our customers and receive their feedback. The Clean Air Update newsletter, debuting with this issue, is one tool to help us reach you. Please feel free to reach back!

Carbon Refills: Planning for Proper Protection

For over 30 years, MWV and its customers have worked together to limit the occurrence of odors, contaminants and corrosion related failures. The first step in that process is the installation of a MWV Vapor Adsorber, Side Access Housing or Cabinet Unit backed by a follow-up service program. Periodically, the media residing within the air purification equipment requires replacement. Through customer experience, it has been determined that this is best accomplished in a planned manner that neither jeopardizes protection nor calls for the premature disposal of the media.

Like any piece of equipment, activated carbon media has a finite useful life. To avoid interruptions in protecting personnel, sensitive equipment and critical processes, it is important that a plan be in place well in advance of the time at which the media is either chemically or physically consumed. Keep in mind that replacing spent carbon does not reverse the damage that may have occurred in the protected space while the system was in operation with spent carbon that is beyond its replacement date.



MWV sales and technical service representatives can assume an active role in this process and ensure that the media is replaced before it is spent. First, at the beginning of each fiscal year, he or she can provide budgetary information to appropriate the required funds. The representative can also coordinate a turnkey change out of the media and be on the premises to supervise the process. With over 3,000 units in the field, MWV personnel have extensive

experience in conducting change outs in the most efficient manner possible.



By changing out the media according to a set schedule, customers benefit by having a planned and budgeted expenditure, by avoiding the cumbersome and uneconomical process of constant monitoring and changing the media one unit at a time and by the most efficient utilization of personnel and equipment.

As maintenance budgets continue to be squeezed by a tight economy, MWV seeks to assist by helping our customers stretch their maintenance dollars. Adopting this method of conducting refills will achieve the goal of maximizing your investment without risking costly equipment replacement and process downtime.



Integrated Manufacturing, Technical Support Maximizes Customer Value

MWW Air Purification customers regularly see their technical service sales representatives. However, what may not be apparent is that these representatives and their customers are supported by MWW technical resources, customer service personnel and research facilities. From media production to coupon analysis, pilot testing to manufacturing, every function represents a direct link to MWW employees. This unique distinction assures customers that they are collaborating with representatives directly accountable to the highest levels of management.

The first step in the process is the fabrication of the air purification equipment and carbon media. Under the direction of a MWW technical service representative, each account is visited and the customer feedback that has been received has resulted in various improvements to the equipment and media.

With the strength of two manufacturing plants (one in Covington, Virginia; one in Wickliffe, Kentucky) and a pilot testing facility, MWW has the ability to fully meet customer demand, develop media for new applications and evaluate competitive media.

Corrosion coupons are analyzed at our Carbon Technical Center in Covington. A MWW senior technician oversees the entire coupon process from the fabrication of the coupons to the analysis of returned coupons. The lab analyzes over 8,000 coupons per year in support of our customers.

At MWW, we are proud to serve our customers with a fully integrated in-house approach. This is a vital component to providing the highest quality air purification program.



Carbon operations and technical center in Covington, Virginia.



Manufacturing operations in Wickliffe, Kentucky.

Clean Air Update

This newsletter is designed to share information throughout the industry that has proven effective in establishing an ideal environment for protected applications. We hope that you find this material insightful as well as practical for preventing atmospheric corrosion and ensuring your success in protecting your most valuable assets.

In Future Issues:

- How HM® Modules Work
- A Made-in-America Solution for Corrosive Chinese Drywall
- Pellet-Based Systems Versus HM® Systems
- Refinery Systems that Meet NFPA Requirements

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MWW Air Purification products are proudly made in the U.S.A. and deployed globally.