

Improve Indoor Air Quality and Protect Electronics from Airborne Corrosivity

Pollution from commercial and industrial processing facilities can contain gases that quickly corrode the copper and silver metals in computer circuitry. If not removed, the damage these corrosive gases can cause to IT components and equipment could lead to server failure and potential data loss. Monitoring airborne corrosivity levels and filtering them from the air in critical server rooms is a crucial step to preventing data loss.

Testing Airborne Corrosivity

The commonly occurring gases in urban environments include hydrogen sulfide, sulphur oxides, and nitric oxides, which even at small levels, are particularly corrosive to copper and silver metals in computer circuitry over time. PureAir offers two ways to test the air quality in datacenters.

Corrosivity Test Kit





New Test Kit without corrosion

Notable Customers:

- Google
- Farmers Insurance
- HSCB Bank
- Hewlett-Packard

• Barclays Bank

• Innodata

The Corrosivity Test Kit is a traditional way to test air quality against the ANSI/ISA-71.04-2013 recommended levels. The kit is hung in the designated environment for 30 days, removed and sent to the laboratory to measure the corrosion on the copper and silver. A report identifies what type of gases (and the volume) are in the target environment. From there, PureAir can design a corrosion management solution for optimal air quality.

Electronic Corrosivity Monitor



Looking for live results of airborne corrosivity? PureAir's Electronic Corrosivity Monitor (ECM) is designed to reduce operational expenses by preventing unplanned downtime. Features of the monitor include:

- Continuous monitoring for early detection
- Real-time alarms
- Easy installation
- Long service life
- Two copper/silver sensors/independent channels
- Connects to varied systems for data capture
- Ethernet connection
- SD card data storage
- WiFi and Modbus capability

PureAir can design a custom solution to remove corrosive gases that also prevents server failure. PureAir's equipment combined with its high-quality adsorbent media can remove over 99% of gases that could harm IT equipment. Depending on other building and customer requirements, PureAir can design a system not only to fit the specific need, but also the space conditions. PureAir's specific media formulation for datacenter applications, CPS Blend, is engineered to remove ambient air pollutants and prevent component failure.

Self-Contained, Compact Solutions

Quick Access, Low Maintenance





PureAir's Packaged Filter Unit (PFU) comes in three models with maximum airflow of 1,700, 3,400, or 5,100 CMH (1,000, 2,000, or 3,000 CFM).

- Provides air purification for multiple applications and facilities that specialize in protecting critical electronics
- Removes odors while improving indoor air quality
- Stand alone, vertical airflow units are also highly efficient and quiet
- The PFU-Mobile and PFU-Mini, the most compact sizes, are on casters to provide filtration to any area. These models plug directly into the wall and are adaptable to fit inside a server rack and other tight spaces

PureAir's Side Access Housing (SAH) system provides compact horizontal airflow that handles between 850 and 67,960 CMH (500 and 40,000 CFM).

- Used in facilities to protect critical electronics from failure
- Maintains commercial odor control and improves indoor air quality
- The unit's quick access doors create a low maintenance and easy media changeout process
- A SAH is PureAir's most customizable system, offering up to three media passes and redundant blowers in an array of sizes and configurations

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