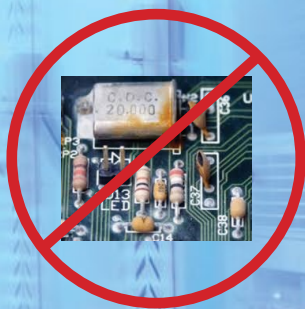


# Data Center Applications Packaged Filter Units



## PREVENT DATA LOSS

### Improve Indoor Air Quality and Protect Electronics from Airborne Corrosivity

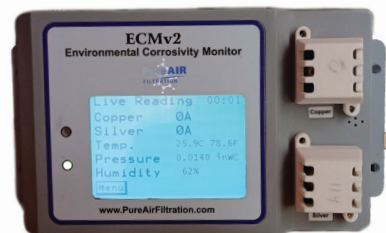
Pollution from commercial and industrial processing facilities can contain gases that quickly corrode the copper and silver metals in computer circuitry. If not removed, the damage these corrosive gases can cause to IT components and equipment could lead to server failure and potential data loss. Monitoring 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 data centers.

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 strips. A report identifies what type of gases (and the volume) are present in the target environment. Based on the results, PureAir can design a corrosion management solution to achieve optimal air quality.

### Environment Corrosivity Monitor



### Corrosivity Test Kit



Example of corroded strips

New Test Kit  
without corrosion

#### Notable Customers:

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

The ECMv2 monitor is designed to deliver live air quality data to maintain optimal air conditions for both staff and equipment. It provides:

- Real-time corrosivity monitoring
- Early corrosion detection
- Anticipates costly downtime events
- 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

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PureAir specializes in designing custom solutions to remove corrosive gases and prevent server failure. PureAir's equipment, paired with its high-quality chemisorbant media, removes over 99% of harmful gases that can damage IT equipment. Each solution is tailored to your specific needs, including space constraints and building requirements. PureAir's CPS Blend, is formulated for data centers to capture and remove ambient air pollutants and safeguard sensitive electronic components.

## Self-Contained, Compact Solutions with Quick Access for Low Maintenance



PureAir's Packaged Filter Unit (PFU) is available in three models, each designed to deliver maximum airflow of 1,700, 3,400, or 5,100 CMH (1,000, 2,000, or 3,000 CFM).

- Delivers reliable air purification for multiple applications and facilities that specialize in protecting critical electronics
- Removes odors and improves indoor air quality
- Quiet, energy-efficient performance in a compact vertical design
- The PFU-Mobile and PFU-Mini are the most compact sizes of PFUs. Mounted on casters, they can be easily moved to provide targeted filtration to any area. These units plug directly into a standard wall outlet and are compact enough 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).

- Protects critical electronics from failure
- Maintains commercial odor control and improves indoor air quality
- Quick-access doors enable easy media changeout with low maintenance
- The 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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