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25 Years of Effective Corrosion Monitoring and Increased Electronics Reliability
From Corrosion Classifications Coupons (CCCs) to our Industry Leading OnGuard® 3000

DORAVILLE, GA – May 2012 marks the 25th anniversary of Purafil’s Corrosion Classification Coupons (CCCs) analysis. Originally, CCCs were mainly intended for monitoring control rooms in industrial settings and to this day, over 75% of CCCs analyzed come from industrial facilities that have high levels of corrosive gas exhaust such as paper mills, oil and gas refineries, etc. Since the first coupon analysis, Purafil’s laboratory scientists have analyzed thousands of field-exposed coupons each year, providing comprehensive reports in 10 languages; Purafil reports detail the types of contaminants in the environment and the severity of corrosion in the room as defined by the International Society of Automation (ISA) Standard 71.04-1985, the accepted guideline for warranties of electronic equipment. Over the years, applications for the CCCs have expanded but still remain a cost-effective tool to passively monitor corrosive gases in various setting such as museums, microelectronics cleanrooms, and most recently data centers.

Due to the explosion of internet-based activities such as on-line shopping, social media and increased Smartphone usage, the data center industry’s energy demand is growing at an exponential rate. Governments, professional associations and IT managers worldwide are working to develop energy saving practices. Allowing more outside airflow into the data centers for cooling has become a valid option, but raises the issue about the increased relative humidity (RH) that comes with the use of air-side economizers as well as the detrimental effects of corrosive gases from the environment.

To avoid any costly business downtime, electronics in data centers have to be highly reliable. For that reason, it is strongly recommended to implement environmental monitoring when using outside air for air-side economizers to ensure air quality meets manufacturer’s specifications. In

fact, whereas most people can sense a change in RH, levels of corrosive gases in the atmosphere are not detectable by smell or sight; the effects of corrosive gases are not immediate except in the most extreme environments and often, it takes several weeks or a few months for the effects to become visible.

Purafil has been monitoring corrosive gases for 25 years; since the first Purafil Corrosion Classification Coupon, the company has offered various effective monitoring tools, including the OnGuard[®] 3000 Atmospheric Corrosion Monitor. Purafil's OnGuard line of air monitors were invented in the mid-1990s using quartz crystal technology and won the prestigious R&D 100 Award, which was also given to other famous inventions such as the first microwave oven and the first copy machine. While the CCCs passively measure the level of gaseous contaminants that form over a 30 day period, the OnGuard 3000 provides real-time monitoring of corrosive gases such as sulfur dioxide (SO₂), hydrogen sulfide (H₂S), nitrogen oxides (NO_x), and other acidic gases found in modern urban environments and near industrial facilities, thus enabling customers to prevent corrosion before severe damage occurs.

For over 40 years, Purafil's gas-phase media has protected environments from corrosive, toxic, irritant and odorous gases. Purafil, Inc. is the world leader in innovating, designing, engineering, and manufacturing gas-phase air filtration systems, atmospheric and reactivity corrosion monitors, and UL classified granular media. Purafil maintains nearly 40,000 global installations in industrial, commercial, municipal, cleanroom, high purity, mission critical (data centers and server rooms), power generation, and preservation facilities.

Purafil's ongoing commitment to quality, customer satisfaction and safety are exemplified by an obligation to the research and development of new clean air technologies, and by earning the latest ISO 9001:2008 certification, along with numerous industry awards.

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