

## Museums and Historic Storage

### Damage to Artifacts and Artwork Can Be Caused by:

- Uncontrolled temperature
- Relative humidity
- Dust and dirt
- Gaseous pollutants, such as ozone and sulfur dioxide

### Filtration Solutions



SAAF™ Cassettes  
(see page 213)



MEGApleat® M8  
(see page 118)



VariCel® VXL  
(see page 132)



### Protecting Precious and Priceless Objects

In preservation environments, Indoor Air Quality (IAQ) is a primary concern. The pollution levels in this indoor air can be up to five times higher than outdoor levels, and in some cases 100 times higher. Controlling airborne pollutants and gaseous contaminants is fundamental to protecting priceless collections of artifacts, national historical assets and documents, artwork, and literature. By maximizing the life of these objects, we essentially protect our heritage, as well as our vintage treasures.

### Environmental Factors

Damage to collectibles can be caused by uncontrolled temperature and relative humidity, dust and dirt, as well as gaseous pollutants such as ozone and sulfur dioxide. Temperature and humidity, if not controlled properly, can speed up the rate of chemical reactions that cause much of the deterioration of sensitive objects. Dust and dirt contamination can cause artifacts to discolor and can potentially scratch precious gems, while gaseous pollutants may cause significant and irreversible deterioration of artifacts, metals, historic records, photographs, and marble through chemical reactions. Poor Indoor Air Quality (IAQ) can also have adverse health effects on employees and visitors.

### Optimize Your Environment

Using SAAF™ Tech Tools, a decision science solution program for configuring gas-phase applications, AAF Flanders experts can identify optimal media and equipment solutions. SAAF Tech Tools simplifies the complexities surrounding gas-phase applications through a guided problem solving experience.

A thorough air filter audit of your HVAC Systems is the first step that AAF Flanders takes in order to provide you with professional guidance and analysis for cost savings and risk reduction. By conducting this audit, we will be able to understand your current state and then utilize SAAF Tech Tools and TCO Diagnostic®, advanced analytical software tools, to identify how you can improve air quality, energy savings, and operational flexibility while reducing risk and total cost of ownership.

Source: The impact of air pollution on cognitive performance and human capital formation, Victor Levy et al, 2012