



Response,
Reliability and
Results for Libraries
and Museums



Polygon is a customer centric organization dedicated to delivering proven and results-oriented solutions to the damaging presence of humidity and the mitigation and restoration of the effects of fire and water.

Libraries are home to famous pieces of literature, important documents and priceless artifacts that usually cannot be replaced or replicated. It is, therefore, important to keep them protected and in the best condition in order to be enjoyed by generations to come. Polygon is experienced in delivering cost effective climate and humidity control solutions to a wide range of museums and libraries around the world.



Our industry leading expertise, intellectual property and fit-for-purpose fleet of equipment, coupled with over 70 years of real world experience has helped some of the world's highest profile organizations effectively manage humidity and climate control problems. Our temporary humidity control solutions deliver cost effective, timely and controlled environments, whatever your application to ensure business continuity, manage risk and create the right atmosphere.

Having successfully responded to thousands of property incidents over the past 25 years, Polygon, a pioneer in temporary moisture management and property damage restoration, uniquely provides the skills, capacity and experience to quickly and cost effectively respond to any incident.

Our Code Blue® service offers a unique approach, helping to maximize the benefits of business continuity and disaster recovery plans. The program delivers a faster response to a property damage incident and stabilizes business critical operations by identifying areas of importance throughout a building's infrastructure.



Project types

- Temporary humidity control
- Water damage restoration
- Fire damage restoration
- Document drying
- Business continuity services

Humidity control for libraries

Polygon dehumidification solutions are used worldwide to protect film, tapes, documents, books and artifacts in archives, museums and libraries. Temperature and humidity control are important factors in preserving documents; in general, these need to be as stable as possible and pollutants should be kept to a minimum. Museums and libraries are public places requiring ventilated air that carries a high moisture load.



Water damage restoration



Whether it is a minor leak or a major flood that has caused the damage, our highly skilled technicians minimize the impact of the incident, reduce secondary damage,

manage costs and provide reassurance throughout the project.

Regular checks are made to ensure properties are truly returned to pre-loss condition.

Fire damage restoration



Our highly trained technicians quickly assess the damage to provide a clear definition on what can be remediated and ensure the correct, most cost effective course of action to efficiently restore and negate the risk of future damage.

The teams then employ a range of leading edge techniques to restore both the property and its contents.

Mold remediation

After a facility has been exposed to damage, it is often subject to higher levels of humidity, providing ideal conditions for mold to grow quickly. We employ a number of techniques to mitigate against bad odor and remove bacteria, fungi, yeast, mold and mildew. These methods range from wet fogging to thermal dry fogging and ozone treatment to prevent repeat costs of restoration and potentially prevent health related claims.

Document drying



Damaged paper quickly deteriorates, so a timely and appropriate recovery protocol is necessary to halt the progression of damage.

For example, freezing documents within 48 hours of the incident can drastically reduce the time and cost of restoration. It also prevents the need for mold remediation, page separation and other, more expensive, corrective procedures.

Using such techniques enables our technicians to swiftly restore damaged documents either on site, or for higher value items, within a high-security facility. This specialist service ensures that items of irreplaceable personal value and even national heritage are preserved for generations to come.

Code Blue® - business continuity services

We employ dedicated project managers, who can work with you to provide a detailed report of all of the key areas of your site. They will use the data to produce a plan that easily fits within your complete business continuity plan, so that in the event you suffer a property damage incident we can respond quickly and effectively.

Our emergency response teams can stabilize business critical operations, minimize damage and disruption, immediately start restoration work and best ensure your artifacts are not further compromised. Temporary systems can be put in place to get critical operations back on-line quickly, allowing services to resume while restoration and repairs are made.



Case study: Polygon protects priceless Portuguese artifacts

With 120 of the world's most valuable art objects at stake, the government of Portugal was not willing to take any chances with humidity control when it loaned the exhibits to the San Diego Museum of Art. The priceless pieces included paintings, fine silver, furniture, tapestries, scientific instruments, and a selection of the Portuguese crown jewels. Curators in San Diego won the exhibit only after they agreed to maintain strict temperature and humidity conditions.



Many of the items in the exhibit were extremely vulnerable to moisture. Because of the risk, the Portuguese government required a guarantee that the temperature would not vary more than two degrees from 72 degrees and that the humidity would not vary more than 5 percent

from 55% RH. The gallery area covered nearly 400,000 cubic feet, and would be visited by up to 2,000 people every day. This, plus the constant infiltration of outside air from opening doors and the natural leakage of the seventy-year-old building, created the need for a fail-safe system.

The exhibit would run in San Diego for five months. So, the only practical solution was a temporary humidity control system from Polygon. It was clear that the old HVAC system could not meet the conditions required and to add to the challenge the exhibit was due to open just two weeks later.

To solve the problem Polygon installed two desiccant dehumidifiers and a 44-ton chiller with two 20-ton coils. The installation was more complex than normal as there was a need to integrate the system with the existing HVAC on the roof and to keep the entire installation out of sight. However, on the day U.S. military transport airlifted the valuable artifacts to San Diego, Polygon's temporary system was finished and running to spec, maintaining conditions perfectly throughout the five-month exhibition.