Why humidify?... For Defense

Ensuring proper humidification in your operations provides systems reliability which leads to increased readiness levels.

- Maintain high reliability & uptime standards
- Increase training and readiness levels
- Reduce electronic equipment component failures
- Support timely MRO activities

Humidification and Evaporative Cooling

condair

Proper Humidity is Essential to the Readiness and Reliability of Defense Systems and Equipment

Insufficient humidity levels in your operational, training, and storage facilities can cause problematic ESD occurrences, component failures, ammunition malfunctions, reduced equipment performance and hinder the uptime of vehicles and equipment. Ensuring proper humidification in your storage and operations facilities ensures maximum reliability, leading to increased training and operational readiness.

Maintain High Reliability Standards & Uptime Requirements

Proper humidification is essential to maintaining high reliability standards and uptime requirements with avionics and electrical components. Insufficient humidity levels can lead to electrical component failure and malfunction, which can impede operations and lead to unsafe situations caused by malfunctioning equipment.

Maintain Optimal System and Equipment Reliability with Proper Humidity

Ensuring your facilities are maintained at a relative humidity level of 40-60% RH results in maximum equipment performance and readiness. Proper humidity contributes to reduced maintenance and need for spares, maximized available training time, increased training and readiness metrics and supports the highest number of combat-ready units at any given time.

Reduce ESD and Component Failures

Maintaining optimal humidity levels in your storage facilities and training centers reduces the chances of electrostatic discharge (ESD). ESD can cause damage to electrical components, failure of electronic components and operational systems, and put your personnel at risk due to the potential for electrical shock or combustion.

Reduce ESD and Component Failure with Proper Humidity

Keeping indoor air environments maintained at a relative humidity level of 40-60% RH prevents these expensive and unsafe electronic component failures. This leads to a wide range of benefits, including increased uptime of avionics and electronics systems, maximized available training time, improved personnel training levels and readiness, heightened OPTEMPO and additional missions completed.

Ensure Maximum Operational Readiness & Durability with Reliable Coatings

To deliver maximum performance readiness and durability, equipment requires quality coatings. Painting military vehicles and equipment requires a low static environment for proper application.

Ensure Maximum Vehicle and Equipment Readiness with Proper Humidity During Adhesion

Maintaining an indoor environment between 40-60% RH is ideal for electrostatic paint and powder coating in order to create an even, durable coat. Coating in these ideal conditions delivers improved first pass coating results, reduced paint waste and rework, higher equipment readiness rates, increased up time, as well as higher operational readiness and mission accomplishments.

Ensure Optimal Ammunition Performance

Reduce Chemical Degradation

Preventing chemical degradation in your ammunition storage facilities and operations is integral to personnel safety and mission success. Maintaining optimal relative humidity levels is integral to the prevention of chemical degradation in military ammunition. Ammunition stored in a consistent humidity environment provides increased combat readiness and usage rates.

Ensure Ammunition Stability

Ammunition, gun powder, explosives and any combustible materials being handled have a high risk of danger if any spark of static discharge is present. Proper humidification levels significantly reduce chances of static discharge. This leads to reduced explosion hazards, safer working environments, increased material readiness and usage rates, maximized training time, higher operational readiness posture and mission accomplishment rates.

Ensure Equipment Readiness and Function with Proper Humidity

Maintaining proper humidity levels of 50-60% RH in ammunition storage areas provides maximized safe shelf life, improved ammunition utilization rates, higher weapons systems qualification rates, and increased mission readiness posture across all departments.

Ensuring proper humidification in your facility will ensure maximum reliability, durability, and readiness

Effective Humidification Solutions for the Defense Industry

Condair manufactures a comprehensive range of humidifier and evaporative cooling systems across all technologies. Condair's humidification engineers are able to provide the right solution to meet the needs for the defense industry whether it is for an operations facility, training facility, or storage.

Effective humidity control poses a long list of benefits for the defense industry:

- Maintain safe working environment
- Increase training capacity and readiness
- Ensure equipment and system reliability
- Prevent costly and unsafe component failures

Condair's Electronic Manufacturing Customers Include:

- **U.S. Air Force**
- **U.S. Army**
- **United States Navy**
- **Defense Information Systems Agency (USA)**
- **National Security Agency (USA)**

As a leading manufacturer of commercial and industrial humidification systems for more than 70 years, Condair has the technology and application expertise to meet the needs of any application.

Contact us today to secure the best humidification solution for your defense facility and operations.

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