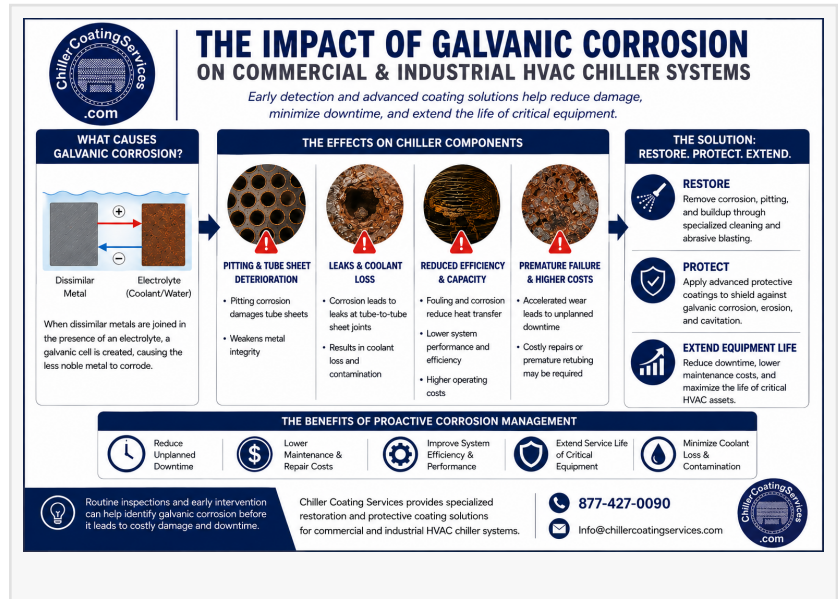


Chiller Coating Services Discusses the Effects of Galvanic Corrosion on Commercial and Industrial HVAC Systems

Facility professionals are encouraged to understand how galvanic corrosion affects HVAC equipment performance, reliability, and maintenance costs.

FRANKLIN, NH, UNITED STATES, July 2, 2026 /EINPresswire.com/ -- Industry professionals are encouraged to understand how galvanic corrosion impacts HVAC equipment performance, reliability, and long-term maintenance costs in commercial and industrial facilities.



Chiller Coating Services
THE IMPACT OF GALVANIC CORROSION
ON COMMERCIAL & INDUSTRIAL HVAC CHILLER SYSTEMS

Early detection and advanced coating solutions help reduce damage, minimize downtime, and extend the life of critical equipment.

WHAT CAUSES GALVANIC CORROSION?

Disimilar Metal | Electrolyte (Coolant/Water)

When dissimilar metals are joined in the presence of an electrolyte, a galvanic cell is created, causing the less noble metal to corrode.

THE EFFECTS ON CHILLER COMPONENTS

- PITTING & TUBE SHEET DETERIORATION**
 - Pitting corrosion damages tube sheets
 - Weakens metal integrity
- LEAKS & COOLANT LOSS**
 - Corrosion leads to leaks at tube-to-tube sheet joints
 - Results in coolant loss and contamination
- REDUCED EFFICIENCY & CAPACITY**
 - Fouling and corrosion reduce heat transfer
 - Lower system performance and efficiency
 - Higher operating costs
- PREMATURE FAILURE & HIGHER COSTS**
 - Accelerated wear leads to unplanned downtime
 - Costly repairs or premature retubing may be required

THE SOLUTION: RESTORE. PROTECT. EXTEND.

- RESTORE**
Remove corrosion, pitting, and buildup through specialized cleaning and abrasive blasting.
- PROTECT**
Apply advanced protective coatings to shield against galvanic corrosion, erosion, and cavitation.
- EXTEND EQUIPMENT LIFE**
Reduce downtime, lower maintenance costs, and maximize the life of critical HVAC assets.

THE BENEFITS OF PROACTIVE CORROSION MANAGEMENT

- Reduce Unplanned Downtime
- Lower Maintenance & Repair Costs
- Improve System Efficiency & Performance
- Extend Service Life of Critical Equipment
- Minimize Coolant Loss & Contamination

Routine inspections and early intervention can help identify galvanic corrosion before it leads to costly damage and downtime.

Chiller Coating Services provides specialized restoration and protective coating solutions for commercial and industrial HVAC chiller systems.

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Galvanic corrosion is a common but often overlooked issue affecting commercial and industrial HVAC systems. When dissimilar metals come into contact in the presence of an electrolyte, accelerated corrosion can occur, leading to premature deterioration of critical components.

In HVAC equipment, galvanic corrosion can impact tube sheets, water boxes, end bells, heat exchangers, and other metal surfaces exposed to moisture and varying operating conditions. Left untreated, corrosion can contribute to pitting, leaks, reduced efficiency, increased maintenance requirements, and costly downtime.

Chiller Coating Services specializes in corrosion remediation and protective coating solutions designed to help extend equipment service life and improve reliability. Services include surface preparation, abrasive blasting, corrosion mitigation, and the application of high-performance protective coatings tailored for demanding HVAC environments.

Facility managers, engineers, maintenance professionals, and operations teams are encouraged to evaluate corrosion conditions during routine inspections to identify potential issues before significant damage occurs.

For additional information about corrosion protection services for commercial and industrial HVAC systems, [visit ChillerCoatingServices.com](https://www.chillercoatingservices.com) or call 877-427-0090.

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