

# Partner With Innovation— Cooney Steam Freeze Block Technology

**THE ONLY COIL DESIGNED TO BLOCK FREEZE AND THAW DAMAGES!**

Freeze damage is the leading cause of premature coil failure in the HVAC industry. Although steam traps, strainers, vacuum breakers and air vents are normally in place to allow condensate to freely drain from a coil, equipment failure and human error often occur.

If the condensate is not properly drained from the coil, freezing air temperatures may cause the liquid to begin to freeze and expand. When that change of state occurs, the pressure begins to climb rapidly within the tubes. Without adequate room for expansion, this pressure builds to a level

that the tubes can no longer bear, which results in bulging and splitting of the tubing. In this event you can expect costly downtime, loss of building heat, expensive equipment repair or replacement along with the potential for additional system damage.

The Cooney Steam Freeze Block Coil is designed to allow expansion to occur without restriction by displacing a controlled volume of water to drain, therefore giving the ice room enough to form within the tubes of HVAC steam coils without causing damage.



Reliability and security are the backbone of HVAC system planning. Helping our customers minimize risk of potential coil failures and related system damage is our goal.

Current satisfied customers span many industries such as hospitals, universities, food and pharmaceutical plants, public and private transit, casinos, hotels, manufacturing facilities, government office buildings, prisons, and museums.



32604 Dequindre  
Warren, MI 48092  
586-264-6100 phone  
586-264-6867 fax

[www.coilreplacement.com](http://www.coilreplacement.com)

# Cooney Steam Freeze Block Technology

**THIS EXCLUSIVE, PATENT PROTECTED BREAKTHROUGH IN TECHNOLOGY NOW PROVIDES A HIGHER LEVEL OF PROTECTION THAN EVER BEFORE!**

- Standard valve temperature setting: 35°F to open
- Standard valve pressure setting: 200 PSI to open
- Expansion relief headers equipped with pressure and temperature sensing valves displace a controlled volume of water to drain as a coil begins to freeze
- All Steam coils supplied with preinstalled low crack pressure vacuum breaker
- Steam distribution and condensate removal optimized with pitched case and distributing tube centering clips
- Improved orifice spacing delivers even thermal profile across full face of coil
- Valve body material: Brass bar stock with stainless steel screen
- Valves are designed to reseat after discharging to prevent flooding after coil thaws
- All coils and valves are preassembled and tested at the factory prior to shipping
- Coil materials are based on customer's specifications
- Climate room and wind tunnel tested to -74° F
- All Cooney Steam Freeze Block Coils come with a 30 month warranty



**Unprotected Coil  
With Split Tubes**

**VS.**



**Patent Protected Steam  
Freeze Block Coil**



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