

# EverGreen<sup>®</sup>

## Chill-In Insulation Kits

Removable/Reusable Insulation Kit System for  
Components on Chilled Water Systems

**All-in-One Insulation Solution for  
Combatting Condensation,  
Corrosion, and Energy Waste**



**Insulate Bare Piping Components  
With Easy-to-Apply, Vapor-Sealed  
Ever Green Chill-In Insulation  
Blanket System**

**Ideal for Valves  
and Fittings  
Requiring  
Maintenance and  
Inspection**

**Kits Contain  
Everything  
Necessary for Quick  
and Easy On-Site  
Fabrication**



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# Ever Green® Chill-In Insulation Kits...When Condensation Control is a Primary Consideration

To reduce condensation of water on surfaces and prevent potential corrosion problems, pipes and piping components in chilled water systems should always be insulated. While a system's pipes are commonly insulated, the majority of components, such as valves and fittings, are often left bare. This can result in significant energy loss as well as water condensation and corrosion of the components and adjacent pipes.

## Pipe Components Difficult to Insulate

The reason that pipe components are left uninsulated is two-fold:

1. They have convoluted shapes, which are more expensive to insulate, and
2. They require periodic maintenance that involves removing existing insulation for access.

## The Solution — Chill-In Removable/Reusable Kits

Chill-In Removable/Reusable (R/R) Kits are the quick and easy solution for insulating chilled water (down to an operating temperature of 34°F) pipe components. The flexible insulation blanket consists of a fiberglass core sandwiched between woven fabric and laminated to a very low permeance multi-layer facing on both sides. Using the kit allows the contractor to fabricate and install the removable/reusable (R/R) blankets on the job site using standardized materials. It simplifies removing and reapplication of the blankets.



Chill-In insulation is an ice white, quilted 4' x 8' insulation blanket. The quilting provides the blanket with the flexibility it needs to insulate easily around convoluted surfaces. To provide a continuous vapor retarder surface, none of the quilt lines penetrate the vapor retarder facing. The finished blanket thickness is approximately 2 inches.

## Chill-In Comes in Kits

- One 4' x 8' modularized, flexible insulation blanket faced on both sides with a zero-perm vapor retarder
- 75' long, 4" wide roll of matching zero-perm pressure sensitive tape
- 3 fluid ounce tube of silicone caulk
- Utility knife

## Features

- 2" thick low density fiberglass insulation blanket
- Continuous zero-perm vapor retarder on both sides
- Quilted design aids in flexibility, measuring and installing
- Cuts easily with utility knife

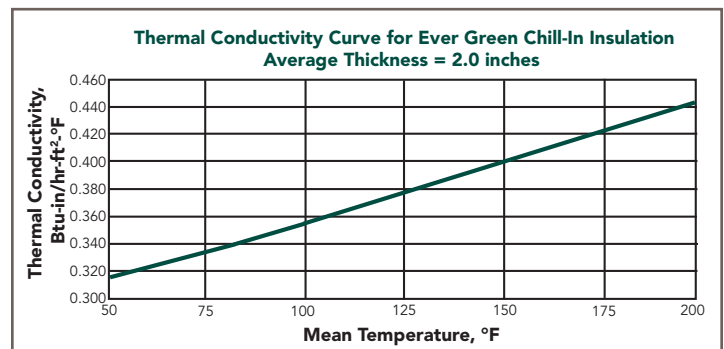
## Benefits

- Reduces condensation, corrosion, and energy waste
- Prevents surface condensation, when used on a 42°F chilled water line, up to a relative humidity range of 85 to 90%.
- Removable/reusable after installation — ideal for re-insulation or retrofit jobs
- Quick and easy to fabricate and install on site
- Zero-perm pressure sensitive tape seals the blanket to most surfaces
- Rated Min/Max: 32°F/250°F

## Technical Performance

- Flame Spread Index < 25, Smoke developed Index <50 per ASTM E84
- Permeance with tape joints: <0.01 Perm per ASTM E96, Procedure B
- Fiberglass insulation core meets ASTM C553, Type V requirements
- Thermal conductivity tested per ASTM C335

## Thermal Conductivity Performance Results



Mean Temperature (°F)	Apparent Thermal Conductivity (BTU-in/hr-ft²-°F)
50	0.316
60	0.323
75	0.335
100	0.354
200	0.443
300	0.554

**Note:** R-value at 60 degrees F mean temperature = 6.2

## QUICK & EASY INSTALLATION



1. Measure



2. Cut



3. Seal Raw Edges



4. Wrap



5. Repeat to Cover Additional Areas



6. Tape to Pipe/Equipment and Seal any Openings with Supplied Caulk



# Cut. Seal. Wrap. Tape. Caulk.

## Installing is Quick and Easy

- ▶ Simply measure the component to be insulated to determine length and width of insulation blanket
- ▶ Cut blanket to size
- ▶ Tape all exposed blanket edges
- ▶ Wrap around pipe component, securing in place with pressure sensitive tape
- ▶ Tape to adjacent insulation on pipe or equipment
- ▶ Apply silicone caulk to any blanket penetrations to create an vapor tight seal

It is recommended that users of this product use only trained, skilled, and experienced insulation workers. The guidelines included in this brochure are not of sufficient detail to advise the installer of all techniques required to install insulation blankets correctly in all scenarios. See the Ever Green Chill-In Installation Manual for more detailed guidelines on correct installation.

**Excellent performance with this insulation system will only be achieved with complete water vapor sealing of all Chill-In edges and cuts as well as vapor sealing of the installed system. Details matter: gaps and holes in the system will allow water vapor to migrate to the chilled metal pipe surfaces, where it may condense into water, and, in the case of gaps and holes in the blankets, allow water vapor to get into the fiberglass insulation where it may condense.**

## Chilled Water Piping Components Before and After Installing Ever Green Chill-In Insulation



## An Invitation

If you would like to participate in a demonstration project to test, evaluate and document Ever Green Chill-In insulation blankets for reduced condensation and energy savings in your chilled water piping systems, please contact Matt Lampron to see if you qualify (mlampron@auburnmfg.com). AMI will supply Chill-In Removable/Reusable Insulation Kits in exchange for data on installation and performance.

### About Auburn Manufacturing, Inc. (AMI)

Auburn Manufacturing has been serving the mechanical insulation industry for over 30 years with a wide array of safe, heat-resistant textiles to cover a range of extreme temperatures. Our manufacturing experience, market and technical knowledge through association with NIA and its members, and a focus on continuous improvement, all form the basis of new product development at AMI. We are proud to introduce EverGreen Chill In insulation as the most recent example of our long-term commitment to the industry.



Auburn Manufacturing, Inc. •34 Walker Road •P.O. Box 220 •Mechanic Falls, Maine 04256  
T: 1-800-264-6689 •T: 207-345-8271 •F: 207-345-3380  
E-mail: sales@auburnmfg.com  
[www.auburnmfg.com](http://www.auburnmfg.com)



Ever Green Insulation Kits are manufactured in the U.S. The insulation composite is produced domestically and meets the Buy American requirements.



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