

# Cush-A-Therms

## PRODUCT

Cush-A-Therm is a unistrut style support for tubing used in refrigeration and HVAC applications. It is quick and easy to install and designed to properly support the tube without compressing or crushing from active-piping system loads.

## SPECIAL FEATURES

**High-Strength Insulating Support:** Cush-A-Therm is a rigid insulating pipe support that resists compressing or crushing from active-piping system loads.

**Proper Tubing Mount:** Cush-a-Therm allows the piping system to expand and contract without inducing additional stresses associated with hard-mounting.

**Metal Hanger Strap included:** The properly-sized unistrut style metal hanger clamp is pre-packaged with the Cush-A-Therm for simple and easy installation.

**Easy to Install:** Cush-a-Therm features a split-seal and over-lap seal with peel-off adhesives for a quick and simple installation.

**Prevents Condensation:** The supports' insulating properties help prevent condensation from forming on the tubing surface.

**Water Vapor Retardant:** The external EPDM layer serves as a vapor retardant to prevent atmospheric moisture from penetrating the seams.

**UV and Weather Resistant:** All components are UV and Weather resistant, requiring no protective paint.



## INSULATION SPECS

**Material:** Closed-cell rigid polymeric foam lined with closed-cell EPDM rubber.

**Working Temperature:** -70 °F to 257 °F (-57 °C to 125 °C) per ASTM C 411.

**Fire Response:** Self-extinguishing through 2" thick per ASTM D 635.

**Compressive Strength:** 314 PSI at yield per ASTM D 1621

**Thermal Conductivity:** .312 K value.

**Water Absorption :** <7% by weight according to ASTM D 1056.

**Water Vapor Permeability:** 0.00 Perm according to ASTM E 96, Procedure A and B.

**Size Range:** Available for tubing from 1/4" to 2-1/8" OD.

**Thickness:** 1/2", 3/4", 1", 1-1/2", and 2" available.

**Length of Support:** 3".

NOTE: Quantities are estimates only. Contractor is responsible for quantities required on project.

Qty.	Product #	Tube Size	Insulation Thickness	R Value	Qty.	Product #	Tube Size	Insulation Thickness	R Value	Qty.	Product #	Tube Size	Insulation Thickness	R Value
	UX1412	1/4"	1/2"	3.2		UX1410	1/4"	1"	7.9	N/A	N/A	1/4"	2"	19.3
	UX3812	3/8"	1/2"	2.9		UX3810	3/8"	1"	7.0	N/A	N/A	3/8"	2"	17.2
	UX1212	1/2"	1/2"	2.6		UX1210	1/2"	1"	6.4	N/A	N/A	1/2"	2"	15.8
	UX5812	5/8"	1/2"	2.5		UX5810	5/8"	1"	6.0		UX5820	5/8"	2"	14.8
	UX3412	3/4"	1/2"	2.4		UX3410	3/4"	1"	5.7		UX3420	3/4"	2"	14.1
	UX7812	7/8"	1/2"	2.3		UX7810	7/8"	1"	5.5		UX7820	7/8"	2"	13.4
	UX11812	1-1/8"	1/2"	2.2		UX11810	1-1/8"	1"	5.1		UX11820	1-1/8"	2"	12.5
	UX13812	1-3/8"	1/2"	2.1		UX13810	1-3/8"	1"	4.9		UX13820	1-3/8"	2"	11.7
	UX15812	1-5/8"	1/2"	2.0		UX15810	1-5/8"	1"	4.7		UX15820	1-5/8"	2"	11.2
	UX21812	2-1/8"	1/2"	1.9		UX21810	2-1/8"	1"	4.4		UX21820	2-1/8"	2"	10.4
	UX1434	1/4"	3/4"	5.5	N/A	UX1415	1/4"	1-1/2"	13.4					
	UX3834	3/8"	3/4"	4.8		UX3815	3/8"	1-1/2"	11.9					
	UX1234	1/2"	3/4"	4.4		UX1215	1/2"	1-1/2"	10.9					
	UX5834	5/8"	3/4"	4.2		UX5815	5/8"	1-1/2"	10.2					
	UX3434	3/4"	3/4"	4.0		UX3415	3/4"	1-1/2"	9.7					
	UX7834	7/8"	3/4"	3.8		UX7815	7/8"	1-1/2"	9.2					
	UX11834	1-1/8"	3/4"	3.6		UX11815	1-1/8"	1-1/2"	8.6					
	UX13834	1-3/8"	3/4"	3.4		UX13815	1-3/8"	1-1/2"	8.1					
	UX15834	1-5/8"	3/4"	3.3		UX15815	1-5/8"	1-1/2"	7.8					
	UX21834	2-1/8"	3/4"	3.1		UX21815	2-1/8"	1-1/2"	7.2					

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## Important Installation Notes

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### GENERAL

- 1) Refer to Reftekk website (<http://www.reftekk.com>) for additional information
- 2) Install insulation with the mindset to **KEEP THE PIPE DRY**
- 3) Cush-A-Therm support and metal hanger clamp **MUST** be sized to match OD of Cush-A-Therm
- 4) Tighten the metal hanger clamp enough to secure the Cush-A-Therm
  - Do **NOT** over tighten the metal hanger clamp and cause deformation of the Cush-A-Therm

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### SELECTING INSULATION THICKNESS

- 1) Thickness of insulation must be chosen as the thickest requirement from the following criteria:
  - Equipment manufacturers' installation instructions
  - Code requirements (specifically city/county/state/federal adopted energy codes)
  - Calculated minimum thickness required to prevent condensation on outside of insulation
  - Engineering specifications
- 2) **Always** match the Cush-A-Therm OD and ID to match tubing size and insulation thickness

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### SUPPORT

- 1) Install Reftekk Cush-A-Therm insulated pipe supports at spacing required by local codes or the authority having jurisdiction

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### SEALING

- 1) **KEEP THE PIPING SYSTEM DRY**
- 2) Insulation **MUST** be glued to the Cush-A-Therm with Aeroflex Aero seal contact cement
  - Highly recommended for the glued joint to be taped with Aeroflex Protape
  - Do **NOT** use tape only to attach insulation to the Cush-A-Therm
  - Do **NOT** use Cell Link II adhesive disks to attach the insulation to the Cush-A-Therm