Aerocel® EPDM Insulated Copper Coils

SPECIAL FEATURES

ASTM E84 (25/50) compliant: Flame-Spread index under 25 and Smoke Development Index under 50 (tested according to ASTM E84).

R410a compliant: Approved for use with R410a and other refrigerants.

UV Resistant: Provides UV Resistance in accordance with ASTM G7/G90.

Ozone Resistant: Provides ozone resistance in accordance with ASTM D 1171.

Non-Polar: Non-Corrosive to copper and helps repel water vapor.

Cleaned and Capped: All copper coils are cleaned and capped before being shipped.

Color: Black.

⚠ CAUTION

▲ Designer, Specifier, Engineer, and/or Contractor is responsible for suitability of the product for the intended application and pressure requirements.

PRODUCT

EPDM Insulated Copper Coils for refrigerant HVAC applications, including VRV/VRF, Mini-Splits, and more.

COPPER SPECS

Tubing: UNS C12200 DHP (phosphorus deoxidized, high residual phosphorus), >99.9%. 060 Temper (Soft Annealed). Dehydrated, Cleaned, and Capped. Meets ASTM B 1003-16.

Length: Available in 50' coils.

INSULATION SPECS

Material: Low-density EPDM closed cell elastomeric foam, CFC and HFC gas free.

Water Vapor Permeability: <0.03 perm-in. (4.38 x 10-11g/Pa*s*m) per ASTM E96, Procedure A.

Water Absorption: <0.2% by volume per ASTM C 209.

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

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

Surface Burning Characteristics: Meets 25/50 Flame-Spread/Smoke-Generated per UL 723 and ASTM E84. Additionally meets UL-94 5 V-A, V-0 and is self-extinguishing per ASTM D 635.

Thermal Conductivity: Maximum thermal conductivity of 0.235 BTU-in/h-f2-°F at a mean of 75°F when tested per ASTM C 518.

UV Resistance: Meets ASTM G 7 and ASTM G 90.

Non-Polar: Non-Corrosive to copper and helps repel water vapor.

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

Length (ft)	Product #	Tube OD	Insulation Thickness	Burst (psi)	R Value
N/A	CCE0206050	1/4"	3/4"	6522	6.9
N/A	CCE0306050	3/8"	3/4"	4225	6.2
N/A	CCE0406050	1/2"	3/4"	3125	5.7
N/A	CCE0506050	5/8"	3/4"	2582	5.3
N/A	CCE0606050	3/4"	3/4"	2986	5.0
N/A	CCE0706050	7/8"	3/4"	3401	4.8

*Burst pressures based upon the Barlow Formula

Length (ft)	Product #	Tube OD	Insulation Thickness	Burst (psi)	R Value
	CCE0208050	1/4"	1"	6522	10.1
	CCE0308050	3/8"	1"	4225	8.9
	CCE0408050	1/2"	1"	3125	8.2
	CCE0508050	5/8"	1"	2582	7.7
	CCE0608050	3/4"	1"	2986	7.3
	CCE0708050	7/8"	1"	3401	7.0
	CCE0412050	1/2"	1-1/2"	3125	13.9
	CCE0512050	5/8"	1-1/2"	2582	13.0
	CCE0612050	3/4"	1-1/2"	2986	12.3
	CCE0712050	7/8"	1-1/2"	3401	11.8

Aerocel® EPDM Insulated Copper Coils

Important Installation Notes

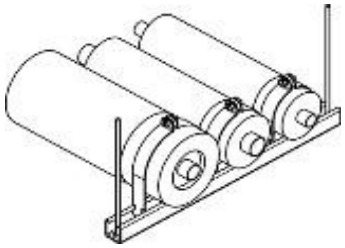
GENERAL

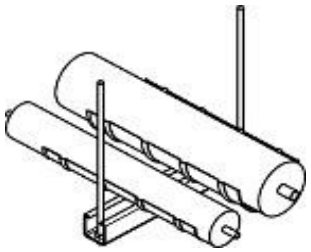
1) Refer to Aeroflex USA's website (https://www.aeroflexusa.com/) for additional information
2) Refer to Reftekk's website (http://www.reftekk.com) for additional information
3) Install insulation with the mindset to **KEEP THE PIPE DRY**
4) Install in straight lines and avoid creating traps due to sagging tubing
5) Install carefully and avoid tearing or crushing the insulation during installation
6) Do NOT allow the insulation to be crushed by unistrut, wire, straps, or wire ties

SELECTING INSULATION THICKNESS(ES)

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
     - Important: See note below if using saddle supports
   - Engineering specifications

SUPPORT





1) Support the piping and space the supports per local code requirements
2) Support pre-insulated coils with Cush-A-Therm supports
   - If Cush-A-Therm supports are not possible and saddle supports are used instead, the insulation will compress at these locations, and condensation may occur if the compressed insulation thickness is less than what is required to prevent condensation. A good "rule of thumb" is to assume the insulation will compress 50% over time. Therefore, if using saddle supports, the installed insulation thickness should be at least twice the minimum thickness than what is required to prevent condensation.
     - Do **NOT** use saddle supports vertically or outdoors

SEALING

1) **KEEP THE PIPING SYSTEM DRY**
2) Repair any tears in the insulation with Aeroseal® contact cement and cover with Aeroflex Protape
3) All seams & joints must be sealed w/ Aeroseal® contact cement
   - When using Aeroseal® contact adhesive, recommended that the joint be taped with Aeroflex Protape
4) All seams and joints must be water and vapor tight
5) Seal all insulation terminations at valves and equipment to be vapor tight
6) Wet seal the insulation to the tubing at equipment terminations
7) The insulation MUST be sealed to prevent rain or condensation from reaching the tube