

Freeze Block Coil Specification Data

Fluid (Chilled Water or Hot Water) with Freeze Block Technology specifications

- Provide a fluid coil with Cooney Freeze Block Technology. Coil shall be manufactured with an expansion relief header that is brazed into each and every return bend.
- A combination relief valve that operates by pressure and temperature, (designed to re-seat after activation) shall be affixed to the expansion relief header to protect the coil during freezing conditions.
 - The pressure relief set point to be 200 psi.
 - The temperature relief set point to be 35 degrees.
 - Valve shall be situated above a drain pan.
- The coils shall be manufactured utilizing:
 - 1/2 inch tubes – a minimum wall thickness of 0.025”.
 - 5/8 inch tubes – minimum wall thickness of 0.020”.
- This technology shall be wind tunnel, climate room and field tested with a minimum of 5 years of industry usage and approval.
- Provide a thirty, (30) month warranty against any freeze related damages to the coil. Warranty shall cover repair of existing or supply of a replacement coil. Items of note:
 - All Coil Components, including but not limited to return bends shall be covered under this warranty.
 - Warranty shall be activated once product is shipped.
No additional activation nor registration shall be required.
- Return bends with freeze relief plugs/ caps and/or copper membrane rupture discs will not be permitted due to increased risk of flooding after coil is exposed to freezing conditions. Use of said materials will not be an approved method for relief and freeze protection.
- In lieu of utilizing Freeze Block Technology, the contractor shall provide:
 - Heat Trace of entire coil, up to and including the header
 - Glycol loop to include coil, circulator pump and heat exchanger tied into the existing water loop. Heat exchanger shall be located indoors such that fluid will not be exposed to outside air conditions.

- Contractor shall be responsible for all aspects of this change, including but not limited to costs associated with the following:
 - Design
 - Electrical
 - Glycol Fill
 - Pumping
 - Plumbing
 - Insulating
 - Structural
 - Cutting, patching and painting

- Contractor to submit glycol loop design including mechanical, electrical and structural drawings. Drawings shall be stamped by a professional engineer that is licensed in the state of the project location.

Freeze Block Coil Specification Data

Steam Coil with Freeze Block Technology specifications

- Provide a steam coil with Freeze Block Technology. Coil shall be manufactured with an expansion relief header that is brazed into every tube.
- A combination relief valve that operates by pressure and temperature, (designed to re-seat after activation) shall be affixed to the header to protect the coil during freezing conditions.
 - The pressure relief set point to be 200 psi.
 - The temperature relief set point to be 35 degrees.
 - The valve shall be situated above a drain pan.
- All cases to be pitched to promote condensate drainage.
- A low crack pressure vacuum breaker to be preinstalled on the expansion relief header at the high point on the back of the coil to ensure optimal condensate drainage.
- This technology shall be wind tunnel, climate room and field tested with a minimum of 5 years of industry usage and approval.
- Provide a thirty, (30) month warranty against any freeze related damages to the coil. Warranty shall cover repair of existing or supply of a replacement coil. Items of note:
 - All Coil Components including but not limited to return bends shall be covered under this warranty.
 - Warranty shall be activated once product is shipped. No additional activation / registration shall be required.
- Return bends with freeze relief plugs/ caps and/or copper membrane rupture discs will not be permitted due to increased risk of flooding after coil is exposed to freezing conditions. Use of said materials will not be an approved method for relief and freeze protection.
- In lieu of utilizing Freeze Block Technology, the contractor shall provide and install heat trace of entire coil, up to and including the header.



20130 Valley Forge Circle
King of Prussia, Pa 19406
610-783-1136
www.cooneycoil.com

- Contractor shall be responsible for all aspects of this change, including but not limited to costs associated with the following:
 - Electrical
 - Pumping
 - Plumbing
 - Insulating
 - Structural
 - Cutting, patching and painting