

COONEY FREEZE BLOCK™ SPECIFICATION DATA

FREEZE BLOCK™ COIL SPECIFICATION

Fluid (Chilled Water or Hot Water) with Freeze Block™ Technology specifica-

- 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.
 - » All Freeze Block™ Valves shall be situated above a drain pan.
- The coils shall be manufactured utilizing:
 - » Tubes:
 - 1/2 inch diameter copper tubes – a minimum tube wall thickness of 0.022”.
 - 5/8 inch diameter copper tubes – a minimum tube wall thickness of 0.020”.
 - Return bend wall thickness to match or exceed tube wall thickness
 - Hairpin return bends not permitted
- All coils equipped with Cooney Freeze Block™ Technology to be installed inside of any air handling unit must be equipped with access doors at all relief valve locations. These access doors must be large enough to perform any and all necessary maintenance to the relief valve sections of the coil.
- All pressure boundary joints to be brazed by personnel certified to ASME Section IX
- Coils to be cleaned using a solvent degreasing method, either submerged or vapor, using perchloroethylene or similar solvent.
- This technology shall be wind tunnel, climate room and field tested with a minimum of 5 years of industry usage.
- 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