

# COONEY FREEZE BLOCK™ SPECIFICATION DATA

## 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.
  - » All Freeze Block™ Valves shall be situated above a drain pan.
- The coils shall be manufactured utilizing:
  - » Tubes:
    - 5/8 inch diameter copper tubes – a minimum tube wall thickness of 0.035”.
    - 1 inch diameter copper tubes – a minimum tube wall thickness of 0.035”.
  - » Fins:
    - Aluminium, minimum 0.008” thick
  - » Casing:
    - Galvanized steel, minimum 16 gauge
- 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.
- 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.
- 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. materials will not be an approved method for relief and freeze protection

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- In lieu of utilizing Freeze Block Technology, the contractor shall provide heat trace of entire coil, up to and including the header.
- 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