



COONEY FREEZE BLOCK + SMART COIL UNIT VENTILATOR SPECIFICATION DATA

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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.
 - » All Freeze Block Valves shall be situated above a drain pan
- The coils shall be manufactured utilizing:
 - » Tubes: ½” diameter copper tubes – a minimum tube wall thickness of 0.022”.
 - » Fins: Aluminum, minimum 0.008” thick
 - » Casing: Galvanized casing, minimum 16 gauge
- 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.
- All Freeze Block coils installed in Unit Ventilators must be equipped with Smart Coil Technology
- Smart Coil Technology must be paired with the Unit Vent control module
 - » Unit Vent control module should understand the steady state and alarm state of the Smart Coil Technology
 - » Unit vent control module sequence of operation for when Smart Coil technology transitions into Alarm state should match the manufacturer’s standard freeze stat sequence of operation.