

Steam Distributing Coil

Types NS, NO, NOD

Primary Surface

Round seamless copper tubes are mechanically expanded into the fin collars of the secondary surface. The mechanical expansion provides a permanent metal-to-metal bond for efficient heat transfer. The inner tube has proportionally spaced directional steam jet orifices that direct the condensate flow to the outlet.

Secondary Surface

Corrugated aluminum or copper plate type fin that is die-formed. Fin collars are full-drawn to provide accurate control of fin spacing and maximum contact with tubes.

Headers

Seamless copper with die-formed holes that provide a parallel surface to the coil tube for strong brazing joints.

Connections

Red brass Schedule 40 male pipe thread (MPT) is standard with optional copper female pipe thread (FPT) and sweat available. Maximum fin length of 120" with same end connections. Fin length over 120" is recommended to have steam supplied at both ends (Type NOD). Any fin height over 48" will have two supply and two return connections.



Casing

Casing is die-formed with 1½" flanges to permit easy stacking and mounting. Casing is pitched nominal 1/8" per foot to facilitate condensate removal. Intermediate tube supports are supplied on coils over 44" fin length with an additional support every 42".

Testing and Performance

All coil assemblies are leak tested under water with nitrogen at 315 PSIG. Standard construction is suitable for 50 PSIG steam pressure. Heavier wall construction is available for steam pressures up to 100 PSIG.

Performance is AHRI Certified™ to Air-Cooling and Air-Heating Coils AHRI Standard 410. Coil performance ratings are calculated using Temtrol AHRI Certified™ selection software.

Coil Options

| Rows | Fin Height | Fin Length | Fin Spacing | Fin Thickness ALUMINUM | Fin Thickness COPPER | Tube O.D. Tube Thickness | Tube Spacing Face | Casing | Max. Std. Operating Conditions |
|------|------------|-------------|-----------------------|------------------------|----------------------|--|-------------------|--|---|
| 1 | 9" to 54" | 12" to 144" | 4 to 14 fins per inch | 0.010" | 0.010" | 1-1/8" Outer 0.035" 0.049" 5/8" Inner | 3" | 16 or 14 GA Galvanized Steel 16 or 14 GA 304, 316 Stainless Steel | Standard 50 PSIG Optional 100 PSIG |

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