

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).

Coil Options

Rows	Fin Height	Fin Length	Fin Spacing	Fin Thickness ALUMINUM	Fin Thickness COPPER	Tube O.D. Tube Thickness	Tube Spacing Face x Row	Casing	Max. Std. Operating Conditions
1	12" to 54"	24" to 144"	5 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 304, 316 Stainless Steel	Standard 50 PSIG Optional 100 PSIG



Casing

Die-formed flanges with stacking flanges on top and bottom. 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 Standard 410. Coil performance ratings are calculated using Temtrol AHRI Certified™ selection software.



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