

Standard Steam Coil

Types SS

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. Tubes are staggered in the direction of airflow and only RETURN BENDS are used to ensure NO reduction in tube wall thickness in the elbow radius associated with hairpin tubes.

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 108" with same end connections. Steam pressure above 50 PSIG will have opposite end connections. Any fin height over 48" will have two supply and two return connections.

Coil Options

Rows	Fin Height	Fin Length	Fin Spacing	Fin Thickness ALUMINUM	Fin Thickness COPPER	Tube O.D. Tube Thickness Tube/Return Bend	Tube Spacing Face x Row	Casing	Max. Std. Operating Conditions	Connections
1,2	6" to 54"	12" to 144"	6 to 14 fins per inch	0.008" 0.010"	0.006" 0.008" 0.010"	5/8" 0.025"/0.035" 0.035"/0.049" 0.049"/0.049"	1.50"x1.299"	16 or 14 GA Galvanized Steel 16 or 14 GA 304, 316 Stainless Steel	Standard 25 PSIG Optional 100 PSIG	Same-end Opposite



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 25 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.

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