



## STEAM DISTRIBUTING COILS

### Primary Surface

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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 5/8 inch O.D. inner steam distributing tubes are centered in the outer condensing tube (1 1/8 inch O.D.). The inner tube has proportionally spaced directional steam jet orifices that direct the condensate flow to the outlet.

#### ***Tube Size Options:***

1 1/8 inch O.D. x .035 inch wall thickness standard with optional wall thickness of (.049). Centerlines are 3.0 inches in the tube face and one row is the only option.

### Secondary Surface

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

#### ***Fin Material Options:***

Aluminum fin thickness of .010 inch standard with optional (.008). Optional copper fin thicknesses available are (.006) (.008) and (.010). Fins per inch available 6 through 14.

### Headers

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

### Connections

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Red Brass Schedule 40 male pipe thread (MPT) is standard with optional copper female pipe thread (FPT) available. Maximum fin length of 120 inches with same end connections. Fin length over 120 inches is recommended to have steam supplied at both ends (Type 9NOD). Any fin height over 48 inches will have two supplies and two returns.

### Casing

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Using 16-gauge minimum thickness material, 1 1/2" flanges are die-formed to permit easy stacking and mounting. Intermediate tube supports are supplied on coils over 44" fin length with an additional support every 42" multiple thereafter.

#### ***Casing Material Options:***

Full G-90 galvanized steel standard with optional stainless, aluminum and copper.

### Testing & Performance

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

PERFORMANCE IS CERTIFIED under ARI Standard 410. All coil performance ratings are according to Commercial Coils, Inc.'s ARI certified selection software.

### Type 5 NS

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(5/8 inch O.D. outer with 3/8 inch O.D. inner steam distributing tube) available upon request, consult factory.