



STANDARD STEAM COILS

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—NO reduced tube wall in the bend radius by using hairpin bends.

Tube Size Options:

5/8" O.D. x .025" wall thickness standard with optional wall thickness of (.035) and (.049). Centerlines are 1.5 inches in the tube face and 1.299 inches between rows.

Rows available are 1 or 2.

Secondary Surface

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

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) available. Maximum fin length of 108 inches with same end connections. Steam pressure above 50 PSIG will have opposite end connections. Any fin height over 48 inches will have two supplies and two returns.

Casing

Using 16-gauge minimum thickness material, 1 1/2 inch 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

All coil assemblies are leak tested under water at 315 PSIG air. Standard construction is suitable for 25 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.