

# Standard Steam Coil

## Type 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 bend 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.



### Casing

Die-formed flanges with stacking flanges on top and bottom. Coil as shown above must be mounted level (NO pitched case). Opposite end connection coils can be supplied with pitched casing. 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 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 x Row | Casing                       | Max. Std. Operating Conditions |
|------|------------|-------------|-----------------------|------------------------|----------------------|------------------------------------|-------------------------|------------------------------|--------------------------------|
| 1,2  | 6" to 54"  | 12" to 144" | 6 to 14 fins per inch | 0.008"                 | 0.006"               | 5/8"<br>0.025"<br>0.035"<br>0.049" | 1.50"x1.299"            | 16 or 14 GA Galvanized Steel | Standard 25 PSIG               |
|      |            |             |                       | 0.010"                 | 0.008"<br>0.010"     |                                    |                         | 304, 316 Stainless Steel     | Optional 100 PSIG              |

5/8" refers to outside diameter (O.D.) of primary surface tubes.



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NAS-OKC-COIL-SS-SB-20230526