Chilled or Hot Water Coil

Type WC

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. All circuiting is designed to gravity-drain with the coil mounted vertically and tubes running horizontally.

Drain and Vent Connections

Standard 1/8" brass female pipe thread (FPT) vent and drain connections with optional (1/2") and (3/4") connections on the header.

Connections

Red Brass Schedule 40 male pipe thread (MPT) std. with optional grooved (Victaulic®) connection, or copper sweat connections, or copper female pipe thread (FPT) available.

Casing

Casing is die-formed with 1½" flanges to permit easy stacking and mounting. 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 dry air at 500 PSIG. Performance is AHRI Certified™ to Air-Cooling and Air-Heating Coils AHRI Standard 410. Coil performance ratings are calculated using Ventrol AHRI Certified™ selection software.

Coil Options

Rows	Fin Height	Fin Length	Fin Spacing	Fin Thickness ALUMINUM	Fin Thickness COPPER	Tube Thickness Tube/Return Bend	Tube Spacing Face x Row	Casing	Max. Std. Operating Conditions
1,2, 3,4,5, 6,8, 10,12	6"–60"	12"–216"	1/2" 8–14 fins per inch	1/2" 0.006"	1/2" 0.006"	1/2" 0.017"/0.025" 0.025"/0.025"	1/2" 1.25"x1.083"	16 or 14 GA Galvanized Steel	250 PSIG 300° F
			5/8" 6–14 fins per inch	5/8" 0.008" 0.010"	5/8" 0.006" 0.008" 0.010"	5/8" 0.020"/0.028" 0.025"/0.035"	5/8" 1.50"x1.299"	16 or 14 GA 304, 316 Stainless Steel	

1/2" and 5/8" refer to outside diameter of primary surface tubes.

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Direct Expansion Coil

Type DX

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.

Liquid Connections

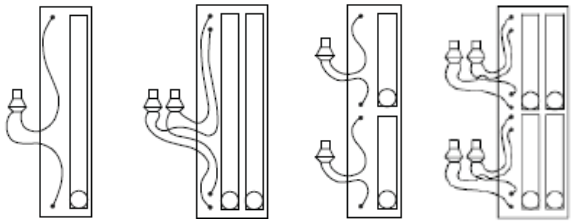
Brass O.D. sweat with interchangeable nozzle type refrigerant distributors. Standard coil has one distributor for one compressor circuit. An INTERTWINED coil has two distributors that provide full face control using two compressor circuits. A FACE SPLIT coil has two or more distributors for multiple compressor circuits.

Casing

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".

Circuiting

Coil circuiting options include: full face (std.), intertwined, horizontal (face) split, and face split / intertwined.



Standard | Intertwined | Horizontal (Face)Split | Face Split / Intertwined

Testing and Performance

All coil assemblies are leak tested under water with dry air at 500 PSIG. Type DX coils are shipped with a dry air charge. Performance is AHRI Certified™ to Air-Cooling and Air-Heating Coils AHRI Standard 410. Coil performance ratings are calculated using Ventrol 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/Return Bend	Tube Spacing Face x Row	Casing	Max. Std. Operating Conditions
3,4,5, 6,8, 10,12	6"–60"	12"–216"	6 –14 fins per inch	1/2" 0.006" 5/8" 0.008" 0.010"	1/2" 0.006" 5/8" 0.006" 0.008" 0.010"	1/2" 0.017"/0.025" 5/8" 0.020"/0.028" 0.025"/0.035"	1/2" 1.25"x1.083" 5/8" 1.50"x1.299"	16 or 14 GA Galvanized Steel 16 or 14 GA 304, 316 Stainless Steel	250 PSIG

1/2" and 5/8" refer to outside diameter (O.D.) of primary surface tubes.

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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) available. Maximum fin length of 108″ with same end connections. Any fin height over 48″ will have two supply and two return connections.

Casing

Casing is die-formed with 1½″ flanges to permit easy stacking and mounting. 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 dry air at 500 PSIG. Standard construction is suitable for 15 PSIG steam pressure.

Performance is AHRI Certified™ to Air-Cooling and Air-Heating Coils AHRI Standard 410. Coil performance ratings are calculated using Ventrol 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/Return Bend	Tube Spacing Face x Row	Casing	Max. Std. Operating Conditions	Connections
1,2	6″–54″	12″–108″	6–14 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 15 PSIG	Same-end Opposite

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

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Water Booster Coil

Types WC, BC

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

(When furnished) are seamless copper with die-formed holes that provide a parallel surface to the coil tube for strong brazing joints. All circuiting is designed to gravity-drain with the coil mounted vertically and tubes running horizontally.

Connections

Wrot copper male pipe thread (MPT).

Casing

Casing Type WC is 16 ga. galvanized steel with 1½" die-formed flanges to permit easy mounting. Casing Type BC is 20 ga. galvanized steel.

Testing and Performance

All coil assemblies are leak tested under water with dry air at 500 PSIG.

Performance is AHRI Certified™ to Air-Cooling and Air-Heating Coils AHRI Standard 410. Coil performance ratings are calculated using Ventrol 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/Return Bend	Tube Spacing Face x Row	Casing	Max. Std. Operating Conditions
1,2	6"–18"	6"–48"	1/2" 8–14 fins per inch	1/2" 0.006"	1/2" 0.006"	1/2" 0.017"/0.025"	1/2" 1.25"x1.083"	Type WC 16 or 14 GA Galvanized Steel	250 PSIG 300° F
			5/8" 6–14 fins per inch	5/8" 0.008" 0.010"	5/8" 0.006" 0.008" 0.010"	5/8" 0.020"/0.028"	5/8" 1.50"x1.299"	16 or 14 GA 304, 316 Stainless St. Type BC 18 GA Galvanized Steel	

1/2" and 5/8" refers to outside diameter (O.D.) of primary surface tubes.

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