

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 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. Standard 1/8" brass female pipe thread (FPT) vent and drain with optional 1/2" or 3/4". All circuiting is designed to gravity-drain with the coil mounted vertically and tubes running horizontally (unless otherwise noted).

Connections

Red Brass Schedule 40 male pipe thread (MPT) std. with optional copper female pipe thread (FPT), sweat and Victaulic Red Brass available.

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
1,2,3,4,5,6,8,10,12	6" to 60"	12" to 240"	1/2"	1/2"	1/2"	1/2"	1/2"	16 or 14 GA Galvanized Steel	250 PSIG 300° F
			8 to 14 fins per inch	0.006"	0.006"	0.017"	1.25"x1.083"		
			5/8"	5/8"	5/8"	5/8"	5/8"	304, 316 Stainless Steel	
			6 to 14 fins per inch	0.008"	0.006"	5/8"	1.50"x1.299"		
				0.010"	0.008"	0.020"			
					0.010"	0.025"			
						0.035"			
						0.049"			



Casing

Casing is die-formed with 1 1/2" 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 nitrogen at 315 PSIG. Standard construction is suitable for 250 PSIG and up to 300 degrees F.

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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