

# 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 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

Interchangeable nozzle type refrigerant distributors are brass and suction connections are copper sweat. 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.

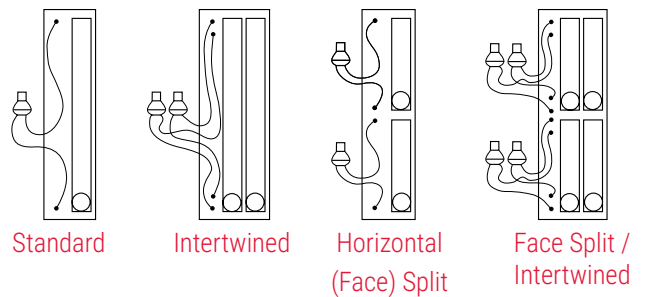
### Casing

Die-formed flanges with stacking flanges on top and bottom. 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.



### Testing and Performance

All coil assemblies are leak tested under water with nitrogen at 315 PSIG.

### 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
3,4,5, 6,8, 10,12	6" to 60"	20.25" to 157"	1/2" 8 to 14 fins per inch	1/2" 0.006"	1/2" 0.006"	1/2" 0.017" 0.025"	1/2" 1.25"x1.083"	16 or 14 GA Galvanized Steel	250 PSIG
			5/8" 6 to 14 fins per inch	5/8" 0.008" 0.010"	5/8" 0.006" 0.008" 0.010"	5/8" 0.020" 0.025"	5/8" 1.50"x1.299"	304, 316 Stainless Steel	

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



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