

# 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 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".

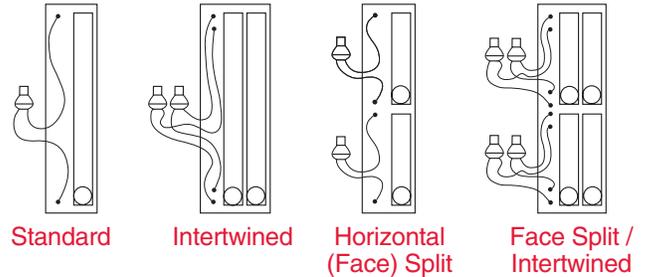
### Coil Options

| 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"  | 12" to 216" | 6 to 14 fins per inch | 1/2"                   | 1/2"                 | 1/2"                     | 1/2"                    | 16 or 14 GA Galvanized Steel         | 250 PSIG                       |
|                   |            |             |                       | 0.006"                 | 0.006"               | 0.017"/0.025"            | 1.25"x1.083"            |                                      |                                |
|                   |            |             |                       | 5/8"                   | 5/8"                 | 5/8"                     | 5/8"                    | 16 or 14 GA 304, 316 Stainless Steel |                                |
|                   |            |             |                       | 0.008"                 | 0.006"               | 0.020"/0.028"            | 1.50"x1.299"            |                                      |                                |
|                   |            |             |                       | 0.010"                 | 0.008"               | 0.025"/0.035"            |                         |                                      |                                |



### 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 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.



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