

CAPABILITIES OVERVIEW

Circuiting

Single circuit evaporator coils are most common with single compressor systems. They consist of only one refrigerant distributor and do not provide for variable loads. This is most commonly used in air-conditioning systems with constant airflow and space/return air temperature.

Intertwined circuiting feeds refrigerant evenly across the coil face under part-load. The coil retains up to 70% of the design capacity when one circuit is deactivated, because the entire fin surface provides cooling, keeping suction pressure high and allowing compressors to operate more efficiently. This option is most commonly used in multi-zone and VAV units.

Four-Circuit Face Split Intertwined. This is the most flexible arrangement available on an evaporator. Depending on the number of compressors, piping arrangement and controls, this coil style can operate as an intertwined coil or a face split coil – all while accommodating four independent refrigerant circuits. This arrangement is commonly used in multi-zone and VAV units as well.

Traditional Face Split. At part load, only a portion of the coil face remains active. Suction pressure remains low in the active circuit, thus providing a lower fin temperature and leaving air temperature in the active portion of the face. Active circuits should always be the bottom section of the coil to prevent humidity spikes due to re-evaporation of condensate.

Traditional Row Split. Typically seen in six-row evaporators, this arrangement will feed the first four rows with one distributor and the last two rows with the other distributor to achieve a 50/50 load split. Owing to the limited options for achieving a 50/50 split and the fact that the lower suction temperatures do not allow for higher efficiencies at part-load, this arrangement is less commonly used.

Refrigerant Distributors

Each refrigerant distributor is selected to optimally feed the evaporator coil for proper boil-off. Removable nozzles are installed at the factory to minimize installation and field maintenance. Venturi-type distributors are available for applications with wide variations in load. Distributors can be factory mounted for horizontal, upturn or downturn arrangement.

Auxiliary Side Connectors

As an option, auxiliary side connectors for use with hot gas bypass circuits can also be installed at the factory.

Equalizer Lines / TXV's

Optionally, 1/4" equalizer lines can be factory installed into the suction headers, facilitating installation of the thermostatic expansion valve (TXV). As a full value-added option, evaporator coils can be shipped with factory-installed thermostatic expansion valves.

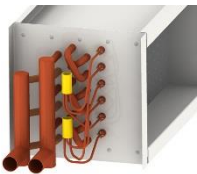
Intermediate Drain Pans

Integral intermediate drain pans are available for installations requiring a single coil in lieu of multiple stacked coils. This feature provides for condensate removal from the upper section of the coil for installation as a single unit.

Evaporator Coil Circuiting Options



Normal



Interlaced

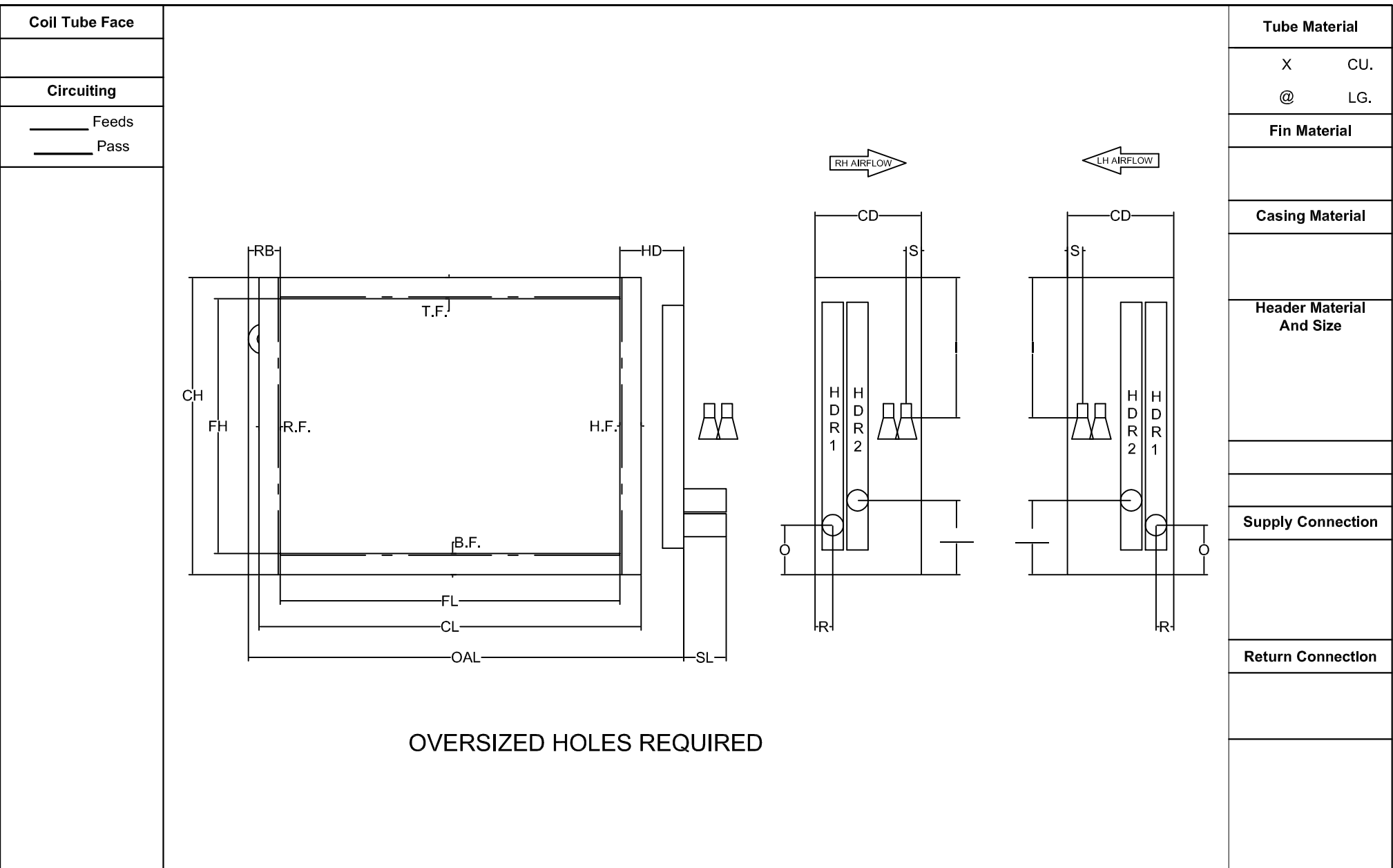


Split Face



Split Row

<http://coilmastercorp.com/coil-capabilities-overview/evaporator-coils/>



Tube Material	
X	CU.
@	LG.
Fin Material	
Casing Material	
Header Material And Size	
Supply Connection	
Return Connection	

OVERSIZED HOLES REQUIRED

ROWS	FPI	FH	FL	CH	CL	CD	HD	OAL	SL	X	I	S	O	R	T.F.	B.F.	H.F.	R.F.	R.B.

NOTES:	TAG COIL:	W.O.	Tube Supports Recommended For Coils Over 50.00" Long. All coils are tested with 550 p.s.i. Dry Nitrogen
		ITEM	
		QTY.	
		REV	
		MODEL #	