

Custom Coils



To guarantee your coil is going to perform as required, check for AHRI Certification.

Best Available Program

1 Day

78

Replacement and OEM Coils

Greenheck specializes in manufacturing competitively priced, quality-engineered replacement and OEM coils. Every coil we build is leak tested under water with 450 PSIG of dry nitrogen to guarantee 100% quality assurance.

	Tube Diameter (inches)				
	5/16	3/8	1/2	5/8	1
Wall Thickness (inches)					
.016	3	3	3		
.020		3	3	3	
.025				3	
.035				3	3
.049				3	3
Fin Material					
Aluminum	3	3	3	3	3
Copper			3	3	
Fins Per Inch (FPI)					
Min	8	10	6	6	4
Max	20	20	16	14	14
Fin Type					
Sine wave		3		3	
Lanced	3	3			
Corrugated			3		
Flat		3		3	
Connection Size (inches)					
Min	0.5	0.5	0.5	0.5	0.5
Max	4.0	4.0	4.0	4.0	4.0
Fin Height (inches)					
Min	5.0	5.0	5.0	4.5	6.0
Max	96	120	120	120	96
Increments of	1.0	1.0	1.25	1.5	3.0

Connection Types	
FPT - Female pipe thread	Sweat
MPT - Male pipe thread	Victaulic

Casing Types
Standard (1.5-inch flange)
Standard Booster (1-inch flange)
Slip and drive
Endplates only
Pitched
Inverted Supply End Flange
Inverted S.P. Flange

Casing Material	
Standard	Optional
16 gauge galvanized steel	14 gauge galvanized steel
	16 gauge stainless steel
	.09 in. thick copper

Refrigerant Types
R-22
R-134a
R-404A
R-407C
R-410A
R-502

Tube Diameter (inches)	Fin Material	
	Aluminum	Copper
5/16	3	
3/8	3	
1/2	3	3
5/8	3	3
1	3	
Fin Thickness (inches)		
.0045	3	
.006	3	3
.0075	3	
.008	3	
.010	3	
.016	3	
Fin Type		
Sine wave	3	5/8 in. only
Lanced	5/16 and 3/8 in. only	
Corrugated	1/2 in. only	1/2 in. only
Flat	3	

Fluid Flow Rates							
For water coils, connections sizes are based on GPM of water							
GPM	1-4	4-8	8-16	16-30	30-40	40-70	75-150
Connection	3/4	1	1 1/4	1 1/2	2	2 1/2	3

Coil Type (Style)								
Custom						Booster		
Chilled Water	Hot Water	Direct Expansion	Condenser	Standard Steam	Steam Distributing	Hot Water	Standard Steam	
Tube Diameter (inches)								
5/16			3	3				
3/8	3	3	3	3				
1/2	3	3	3	3				
5/8	3	3	3	3	3	3	3	3
1					3	3		
Rows								
Min Rows	1	1	1	1	1	1	1	1
Max Rows	12	12	12	12	2*	2*	2	2
Fin Height (inches)								
Min	<i>Fin height is dependent on tube diameter (see Tube Diameter chart)</i>						6	6
Max							24	24
Increments of							3	3
Fin Length (inches)								
Min	<i>Minimum fin length is 1 inch</i>						6	6
Max	<i>Max fin length is 200 inches (144 inches for steam) with center supports every 50 inches</i>						48**	48**
Increments of	<i>No restriction on fin length increments</i>						1	1
Recommended Face Velocity (FPM)								
Min	400	500	400	600	500	500	500	500
Max	550	800	550	750	850	850	800	850
Recommended Fluid Velocity (FPS - for water coils)								
Min	1.5	1.5	NA	NA	NA	NA	1.5	NA
Max	4.0	4.0	NA	NA	NA	NA	4.0	NA
Recommended Pressure Drop (ft. of H₂O or psi)								
Min	1	1	NA	NA	1	1	1	1
Max	20	10	NA	NA	125***	125***	10	125***

* Maximum Row of one for 1 inch tube diameter.

** Booster coil fin lengths are dependent on fin height.

*** Higher steam pressures will require heavier tube wall thicknesses.

Coil Selection Program

Software

Visit www.greenheck.com/software to obtain Greenheck's coil selection software. Use of the self-explanatory software will guide the user in proper sizing and feature selection.

Coil Drawing Worksheets

Replacement Blank Coil Drawings—which are helpful for recording coil construction details when sizing and ordering replacement coils—are available from our website. The drawings are located on the Coils product web page under the Other Product Information section.

WATER COILS

ROWS AVAILABLE	1	2	3	4	5
FPI AVAILABLE	6	7	8	9	10
TUBES OD & Wall Thickness COPPER OME Y	5/8	.020	.025		
FRIS Material & Thickness	ALUM.	.006	.010		
CASING	16 GA. STAINLESS STEEL				
HEADERS COPPER OME Y	5/8	7/8	1 1/8		
	1 3/8	1 5/8	2 1/8		
	2 5/8	3 1/8			

DIMENSIONAL DATA IN INCHES															SUPPLY				RETURN				CONNECTION SIZES			
ITEM	QTY	ROWS	FPI	SP1	FH	SP2	CH	EP1	FL	EP2	CL	MAX	C	OAL	L	CD	S	E	R	F	SUPPLY	RETURN	CU	STL		
P.O. #												CUSTOMER														
W.O. #												MODEL NO.														
APPROVED BY												TAG:														
DATE												NOTES														
Performance Data	CFM			EDBEWB																						

Building Value in Air.