

MANUFACTURING CAPABILITIES AND LISTINGS

Round Tube Plate Fin Heat Exchangers

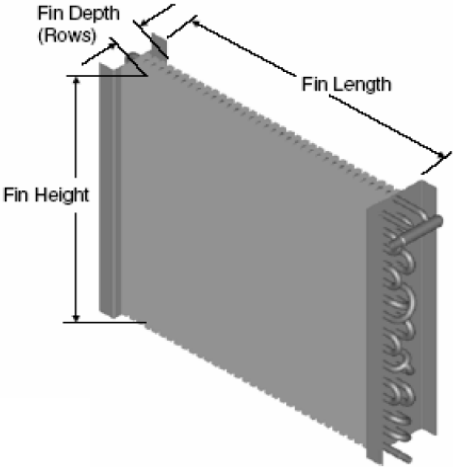


Table 1.1 - Manufacturing Capabilities

Fin Pattern	Tube Spacing (Vert. x Horiz.)	Copper Tube OD	Aluminum Fin Styles (Fin per Inch / Fin Thickness Capabilities)						# of Rows Deep	Max. Fin Height	Max. Fin Length
			Fin Thickness	Fin Density Range (fins per inch)							
				Flat	Corrugated	Sinewave	HIGHMIX®	TURBOFIN®			
A	1.000" X 1.000" Inline	3/8"	0.0045"	N/A	N/A	N/A	N/A	N/A	1 - 6	40"	84"
			0.0055"	8-20	9-20	N/A	N/A	N/A			
			0.0075"	5-20	7-20	N/A	N/A	N/A			
			0.0100"	4-20	5-20	N/A	N/A	N/A			
			0.0045"	10-23	10-23	10-20	10-23	12-20			
B	1.000" X 0.866" Staggered	3/8"	0.0055"	8-23	8-23	10-20	8-23	10-20	1 - 6	40"	100"
			0.0075"	6-23	6-23	8-20	7-23	10-20			
			0.0100"	6-18	6-18	N/A	N/A	N/A			
			0.0045"	10-20	12-20	N/A	N/A	N/A			
			0.0055"	9-20	10-20	N/A	N/A	N/A			
C	1.000" X 0.750" Staggered	3/8"	0.0075"	6-20	7-20	N/A	N/A	N/A	1 - 6	40"	84"
			0.0100"	N/A	N/A	N/A	N/A	N/A			
			0.0045"	10-20	10-20	N/A	8-16	N/A			
			0.0055"	8-20	8-20	N/A	8-16	N/A			
			0.0075"	6-20	6-20	N/A	8-16	N/A			
D	1.000" X 0.625" Staggered	3/8"	0.0100"	N/A	N/A	N/A	N/A	N/A	1 - 6	40"	84"
			0.0045"	11-20	11-20	12-20	11-20	N/A			
			0.0055"	8-20	8-20	10-20	8-20	N/A			
			0.0075"	6-20	7-20	8-20	7-20	N/A			
			0.0100"	N/A	N/A	N/A	N/A	N/A			
F	1.250" X 1.082" Staggered	1/2"	0.0045"	9-22	10-22	10-22	10-22	14-20	1 - 6	40"	84"
			0.0055"	8-22	8-22	8-22	8-22	10-20			
			0.0075"	6-22	7-22	7-22	7-22	N/A			
			0.0100"	6-18	6-18	8-20	N/A	N/A			
			0.0045"	10-22	12-22	12-22	12-22	N/A			
H	1.000" X 0.625" Staggered	5/16"	0.0055"	8-22	10-22	11-22	10-22	N/A	1 - 6	42"	100"
			0.0075"	6-22	7-22	9-22	7-22	N/A			
			0.0100"	N/A	N/A	N/A	N/A	N/A			
			0.0045"	8-22	10-22	11-22	10-22	N/A			
			0.0075"	6-22	7-22	9-22	7-22	N/A			
K	1.000" X 0.750" Staggered	5/16"	0.0100"	N/A	N/A	N/A	N/A	N/A	1 - 6	32"	48"
			0.0045"	10-22	12-22	12-22	12-22	N/A			
			0.0055"	8-22	10-22	11-22	10-22	N/A			
			0.0075"	6-22	7-22	9-22	7-22	N/A			
			0.0100"	N/A	N/A	N/A	N/A	N/A			

- Bracket materials available: galvanized steel, aluminum or stainless steel
 - Fin stock is aluminum. Pre-coated fin stock is available.
 - Epoxy dip coating or spray paint available
- Please contact Application Engineering or Sales or any special requirements

Modine Manufacturing Company

UL and CSA Listings

Nuevo Laredo, MX Round Tube Plate Fin Product



The following coil types have been tested at the listed design pressures and are certified by UL and CSA, as indicated, for use with the refrigerants listed below with the exception of R-410a. Types ending in "3" are tested at the listed design pressures and certified by UL and CSA, using the Fatigue Test Analysis, and are approved for use with R-410a. All types are approved for use as Condensers and Evaporators.

Type	Tube O.D. [in]	Minimum Tube Wall [in]	Tube surface	Minimum Return Bend Wall [in]	Test Press. [psig]	Design Press. [psig]	Ultimate Strength [psig]	UL Standard	CSA Standard
R	0.3125	0.011	Smooth	0.016	625	500	2500	207	22.2 No. 140.3
R3	0.3125	0.011	Smooth	0.016	700	700	2500	1995	22.2 No. 236
GA	0.3125	0.011	Rifled	0.016	625	500	2500	207	22.2 No. 140.3
GA3	0.3125	0.011	Rifled	0.016	700	700	2500	1995	22.2 No. 236
P	0.375	0.012	Smooth	0.020	500	400	2250	207	22.2 No. 140.3
P3	0.375	0.012	Smooth	0.020	700	700	2250	1995	22.2 No. 236
GD	0.375	0.012	Rifled	0.020	500	400	2250	207	22.2 No. 140.3
GD3	0.375	0.012	Rifled	0.020	700	700	2250	1995	22.2 No. 236
LX	0.375	0.014	Smooth	0.022	500	500	2750	207	22.2 No. 140.3
LX3	0.375	0.014	Smooth	0.022	700	700	2750	1995	22.2 No. 236
H	0.500	0.017	Smooth	0.025	500	500	2500	207	22.2 No. 140.3
H3	0.500	0.017	Smooth	0.025	700	700	2250	1995	22.2 No. 236
GH	0.500	0.016	Rifled	0.024	400	400	2000	207	22.2 No. 140.3
GH3	0.500	0.016	Rifled	0.024	700	700	2250	1995	22.2 No. 236

Approved Refrigerants

R11, R12, R21, R22, R40, R113, R114, R134A, R401A, R401B, R402A, R402B, R404A, R407C, R507, R500, R502, R764, R410A