

AIRCOOLED
EXCHANGERS:
FIN TYPES



TYPICAL VALUES FOR INPUT INTO Xace FOR 1" TUBES						
	IMPERIAL UNITS (INCHES)			METRIC UNITS (mm)		
	L-FIN	G-FIN (embedded)	EXTRU. FIN	L-FIN	G-FIN (embedded)	EXTRU. FIN
No. of fins per unit length	11	11	10	433	433	393.7
Fin root diameter	1.032	1	1.066	26.213	25.4	27.076
Fin height	0.609	0.625	0.592	15.469	15.875	15.037
Fin thickness at base of fin	0.016	0.016	0.028	0.4064	0.4064	0.711
Fin thickness at tip of fin	0.008	0.008	0.008	0.2032	0.2032	0.203
Overfin diameter	2.25	2.25	2.25	57.15	57.15	57.15
Tube wall thickness	0.1199 0.0913	0.1320 0.1045	0.1199 0.0913	3.046 2.319	3.353 2.654	3.046 2.319
	12 BWG 14 BWG					

NOTE:
Overfin diameter does not have to be input if fin root diameter and fin height are input.
This is an advantage if changing between different tube diameters.





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EXCHANGERS:
TUBE SIZES AND PITCHES



TUBESIZE AND PITCH

1. The normal tube diameter is 1.0" od. Consider carefully if using a different diameter

Typical tubepitches are given below

Metric

Tube Dia (ins)	Fin Dia (ins)	Transverse Pitch (mm)
1.0	2.25	60 / 63.5 / 67
1.25	2.5	67 / 70 / 73
1.5	2.75	73 / 76

British

Tube Dia (ins)	Fin Dia (ins)	Transverse Pitch (ins) (min / max)
1.0	2.25	2.375 / 2.625
1.25	2.5	2.625 / 2.875
1.5	2.75	2.875 / 3.0

USA

Tube Dia (ins)	Fin Dia (ins)	Transverse Pitch (ins) (min / max)
1.0	2.25	2.5 / 2.625
1.25	2.5	2.75 / 2.875
1.5	2.75	3.0 / 3.125

Bare Tubes

Tube Dia (ins)	Transverse Pitch (ins) (min / max)
1.0	1.375 / 1.625
1.25	1.75 / 2.0
1.5	2.125 / 2.375

bare tubes in a plug header use 1.625 inch pitch (plug size

dictates the pitch)

