

Soft Copper Capillary Tubing

- Precision Plug Drawn
- I.D. within +/- .002 in.
- Replaces Any Original Capillary Tubing



Product Type	Catalog No. (10 Foot Length)	Product Type	Catalog No. (100 Foot Length)	I.D. "	O.D."
110-10	F7816	110	F7800	.031	.083
111-10	F7841	111	F7801	.036	.087
112-10	F7842	112	F7802	.042	.093
113-10	F7832	113	F7803	.044	.109
114-10	F7818	114	F7804	.050	.114
115-10	F7819	115	F7805	.055	.125
116-10	F7820	116	F7806	.064	.125
117-10	F7821	117	F7807	.070	.125
118-10	F7822	118	F7808	.075	.125
119-10	F7823	119	F7809	.080	.145
120-10	F7824	120	F7810	.085	.145
121-10	F7834	121	F7811	.090	.145
122-10	F7852	122	F7812	.026	.072
123-10	F7835	123	F7813	.049	.099
124-10	F7836	124	F7814	.054	.106
125-10	F7837	125	F7815	.059	.112

Capillary Tube Data for Air Conditioning Applications

The following data is based on 130°F condensing temperature with R-22. (R134a—Add 10% to length)
 To find the total length of tubing needed, multiply the indicated length times the number of circuits in the system.

System BTUH	1 Circuit	2 Circuits	3 Circuits	4 Circuits	5 Circuits	6 Circuits
4,000	43" No. 112					
5,000	72" No. 114					
6,000	48" No. 114	86" No. 112				
8,000	43" No. 115	43" No. 112				
10,000	65" No. 116	72" No. 114	72" No. 112			
12,000	68" No. 117	48" No. 114	43" No. 112			
15,000	90" No. 119	54" No. 115	72" No. 114	52" No. 112		
20,000	60" No. 120	65" No. 116	70" No. 115	72" No. 114	43" No. 112	
24,000	55" No. 121	70" No. 117	43" No. 115	48" No. 114	80" No. 114	
30,000		90" No. 119	65" No. 116	54" No. 115	48" No. 114	72" No. 114
36,000		56" No. 119	70" No. 117	85" No. 116	53" No. 115	48" No. 114
42,000		55" No. 120	45" No. 117	55" No. 116	45" No. 115	60" No. 115
54,000		35" No. 121	55" No. 119	50" No. 116	40" No. 115	85" No. 119
60,000			60" No. 120	95" No. 116	68" No. 117	65" No. 116

Capillary Tube Data for Commercial Applications

Application data is based on 130°F condensing temperatures for R22, and 125°F for R12 and R502. To find the total length of tubing needed, multiply the indicated length times the number of circuits in the system. This guide is not meant to replace original manufacturer's specifications for their units. The values shown are typical and should be used only as a reference for replacement.

Low Temp. Compressor		-10° F Evaporator		0° F Evaporator	
H.P.	Ref.	BTUH	Cap Tube	BTUH	Cap Tube
0.5	12	2,700	95" #115	3,350	68" #115
0.5	502	2,700	45" #112	3,300	80" #114
0.75	12	4,100	80" #116	5,200	60" #116
0.75	502	4,050	45" #114	5,100	50" #115
1.0	12	4,900	70" #116	6,200	60" #117
1.0	502	4,800	60" #115	6,100	78" #116
1.5	12	6,900	105" #119	8,800	72" #120
1.5	502	6,800	60" #116	8,700	55" #117
2.0	12	10,700	70" #121	13,300	50" #117 (2)
2.0	502	10,600	80" #119	13,200	85" #121

FREEZERS

Med. Temp. Compressor		0° F Evaporator		+ 10° F Evaporator		+ 20° F Evaporator		+ 30° F Evaporator	
H.P.	Ref.	BTUH	Cap Tube	BTUH	Cap Tube	BTUH	Cap Tube	BTUH	Cap Tube
0.5	12	2,850	90" #115	3,600	80" #125	4,100	60" #125	4,800	68" #116
0.5	502	2,800	100" #114	3,5500	63" #114	4,050	75" #124	4,750	52" #114
0.75	12	4,260	57" #125	5,300	90" #117	6,550	55" #117	7,200	95" #119
0.75	502	4,200	48" #114	5,250	75" #125	6,500	72" #116	7,150	57" #116
1.0	12	5,300	90" #117	7,100	95" #119	8,600	62" #119	10,000	65" #116 (2)
1.0	502	5,250	48" #115	7,050	60" #116	8,550	64" #117	9,950	60" #118
1.5	12	9,500	50" #119	11,500	75" #117 (2)	14,000	102" #119 (2)	16,800	70" #119 (2)
1.5	502	9,400	45" #117	11,400	63" #119	13,900	80" #121	16,700	50" #111
2.0	12	10,000	65" #116 (2)	12,000	68" #117 (2)	15,000	90" #119 (2)	17,500	60" #119 (2)
2.0	502	9,900	40" #117	11,900	57" #119	14,900	78" #121	17,400	56" #117 (2)
3.0	12	16,000	76" #119 (2)	19,500	90" #121 (2)	24,000	52" #121 (2)	27,000	105" #121 (3)
3.0	502	16,600	50" #121	19,400	43" #117 (2)	23,800	58" #119 (2)	26,800	59" #110 (2)

REFRIGERATORS

Med. Temp. Compressor		0° F Evaporator		+ 10° F Evaporator		+ 20° F Evaporator	
H.P.	Ref.	BTUH	Cap Tube	BTUH	Cap Tube	BTUH	Cap Tube
0.5	12	3,800	70" #125	4,500	85" #116	5,300	90" #117
0.5	502	4,200	68" #124	5,030	53" #115	6,000	86" #116
0.5	22	4,200	94" #123	5,030	70" #114	6,000	48" #124
0.75	12	5,800	75" #117	6,950	105" #119	8,200	70" #119
0.75	502	6,300	76" #116	7,550	50" #116	9,000	51" #117
0.75	22	6,300	70" #124	7,550	53" #115	9,000	83" #116
1.0	12	7,400	92" #119	9,000	55" #119	10,800	70" #121
1.0	502	8,075	56" #117	9,650	67" #118	11,500	64" #119
1.0	22	8,425	98" #116	10,050	62" #116	12,000	68" #117
1.5	12	10,900	62" #121	13,600	110" #119 (2)	16,200	71" #119 (2)
1.5	502	12,300	52" #119	14,500	77" #121	17,500	44" #121
1.5	22	12,650	61" #117	15,500	60" #118 (2)	18,000	83" #116 (2)
2.0	12	16,000	75" #119	19,500	84" #121	23,200	82" #119 (3)
2.0	502	16,500	51" #121	19,700	65" #118 (2)	23,500	67" #119 (2)
2.0	22	16,850	72" #119	20,100	80" #121	24,000	55" #121
3.0	12	21,000	102" #119 (3)	25,800	63" #119 (3)	31,300	80" #119 (4)
3.0	502	24,500	75" #120 (2)	29,350	71" #121 (2)	35,000	44" #121 (2)
3.0	22	25,275	52" #117 (2)	30,200	60" #118 (2)	36,000	56" #119 (2)
4.0	12	28,700	100" #119 (4)	35,700	58" #119 (4)	43,000	62" #119 (5)
4.0	502	33,000	52" #121 (2)	39,400	65" #120 (3)	47,000	63" #121 (4)
4.0	22	33,700	50" #116 (3)	40,250	62" #116 (4)	48,000	68" #117 (4)

COOLERS

CAPILLARY TUBING

Alternate Refrigerant Reference Chart



H.P	LOW	MED	HIGH
1/8	110" #122	84" #122	48" #122
1/6	71" #122	96" #110	72" #110
1/5	54" #110	36" #110	24" #110
1/4	43" #110	90" #112	60" #112
1/3	93" #112	72" #112	36" #112
1/2	96" #123	48" #123	90" #116
3/4	60" #123	92" #116	72" #116
1	36" #123	84" #116	54" #116
1-1/2	84" #116	60" #116	43" #116
2	55" #116	40" #116	26" #116
1/8	121" #122	92" #122	53" #122
1/6	78" #122	106" #110	79" #110
1/5	59" #110	39" #110	26" #110
1/4	47" #110	99" #112	66" #112
1/3	102" #112	79" #112	39" #112
1/2	105" #123	52" #123	99" #116
3/4	66" #123	101" #116	79" #116
1	39" #123	92" #116	59" #116
1-1/2	92" #116	66" #116	47" #116
2	61" #116	44" #116	29" #116
1/8	132" #122	101" #122	58" #122
1/6	86" #122	116" #110	86" #110
1/5	64" #110	42" #110	28" #110
1/4	51" #110	109" #112	72" #112
1/3	112" #112	87" #112	43" #112
1/2	115" #123	57" #123	109" #116
3/4	72" #123	111" #116	87" #116
1	42" #123	101" #116	65" #116
1-1/2	101" #116	72" #116	51" #116
2	67" #116	48" #116	32" #116
1/8	144" #122	111" #122	63" #122
1/6	95" #122	78" #122	95" #110
1/5	70" #110	46" #110	31" #110
1/4	56" #110	31" #110	79" #112
1/3	30" #110	96" #112	47" #112
1/2	29" #112	63" #123	32" #123
3/4	79" #123	32" #123	96" #116
1	46" #123	111" #116	72" #116
1-1/2	111" #116	79" #116	56" #116
2	74" #116	52" #116	34" #116
1/8	N/A	122" #122	69" #122
1/6	104" #122	138" #110	105" #110
1/5	77" #110	50" #110	34" #110
1/4	62" #110	34" #110	86" #112
1/3	33" #110	105" #112	52" #112
1/2	31" #112	69" #123	35" #123
3/4	87" #123	37" #123	106" #116
1	52" #123	30" #123	79" #116
1-1/2	32" #123	86" #116	62" #116
2	82" #116	58" #116	37" #116
1/8	N/A	144" #122	81" #122
1/6	123" #122	100" #122	78" #122
1/5	90" #110	60" #110	41" #110
1/4	73" #110	40" #110	101" #112
1/3	38" #110	30" #110	62" #112
1/2	37" #112	84" #123	42" #123
3/4	104" #123	44" #123	34" #123
1	62" #123	36" #123	94" #116
1-1/2	38" #123	103" #116	74" #116
2	96" #116	69" #116	45" #116

R12, R416A (Single Feed)

R134A, R401A, R401B, R406A, R409A, R500 (One Feed)

R22 (Single Feed)

R402B, R403B, R404A, R407C, R708A, R502 (Single Feed)

R402A, R407A, R407B, R507 (Single Feed)

R410A (Single Feed)

Capillary Tube Data for One and Two Feed Tubes

Note: Add 10% to length for Static Cooled Units.

1/2	43" #110	90" #112	60" #112
3/4	30" #110	63" #112	42" #112
1	96" #123	48" #123	90" #116
1-1/2	60" #123	92" #116	72" #116
2	36" #123	84" #116	54" #116
2-1/2	108" #116	72" #116	49" #116
3	84" #116	60" #116	43" #116
3-1/2	70" #116	54" #116	35" #116
4	55" #116	40" #116	26" #116
1/2	47" #110	99" #112	66" #112
3/4	33" #110	69" #112	46" #112
1	105" #123	52" #123	99" #116
1-1/2	66" #123	101" #116	79" #116
2	40" #123	92" #116	59" #116
2-1/2	119" #116	79" #116	53" #116
3	92" #116	66" #116	47" #116
3-1/2	77" #116	59" #116	38" #116
4	60" #116	44" #116	29" #116
1/2	52" #110	108" #112	72" #112
3/4	36" #110	77" #112	50" #112
1	115" #123	58" #123	108" #116
1-1/2	72" #123	110" #116	86" #116
2	43" #123	101" #116	65" #116
2-1/2	39" #123	87" #116	58" #116
3	101" #116	72" #116	52" #116
3-1/2	84" #116	64" #116	41" #116
4	66" #116	48" #116	31" #116
1/2	56" #110	119" #112	78" #112
3/4	39" #110	85" #112	55" #112
1	28" #112	63" #123	119" #116
1-1/2	79" #123	32" #123	94" #116
2	47" #123	110" #116	71" #116
2-1/2	43" #123	96" #116	64" #116
3	111" #116	79" #116	57" #116
3-1/2	92" #116	70" #116	46" #116
4	73" #116	53" #116	34" #116
1/2	52" #110	32" #110	85" #112
3/4	43" #110	92" #112	60" #112
1	31" #112	70" #123	36" #123
1-1/2	87" #123	35" #123	103" #116
2	52" #123	28" #123	78" #116
2-1/2	47" #123	106" #116	70" #116
3	32" #123	86" #116	62" #116
3-1/2	101" #116	77" #116	50" #116
4	80" #116	58" #116	37" #116
1/2	72" #110	37" #110	102" #112
3/4	50" #110	116" #112	70" #112
1	37" #112	83" #123	42" #123
1-1/2	102" #123	44" #123	34" #123
2	62" #123	37" #123	93" #116
2-1/2	55" #123	32" #123	81" #116
3	38" #123	101" #116	74" #116
3-1/2	118" #116	90" #116	55" #116
4	92" #116	70" #116	41" #116

R134A, R401A, R401B, R406A, R409A, R500 (Two Feed)

R22 (Two Feed)

R402B, R403B, R404A, R407C, R708A, R502 (Two Feed)

R402A, R407A, R407B, R507 (Two Feed)

R410A (Two Feed)

