

Coils



coils

INTRODUCTION

Heatcraft supply fin and tube heat exchangers and tube sets to suit individual requirements for refrigeration, air conditioning and process applications.

SPECIALISED SUPPORT

With a strong history in Heat Transfer, we are able to offer technical support, flexibility and responsiveness that is second to none.

Specialised staff will help you engineer product to match your design requirements by utilising a large variety of high efficiency fin surfaces, tube sizes, tube wall thicknesses and drainable circuiting options to construct a coil of virtually any size. These truly 'made to fit' heat

exchangers can be sourced and supplied with minimal lead times and small runs are welcomed and are part of our everyday business.

For more information on our products and services please contact your local Heatcraft branch on 13 23 50 or your Account Manager.

COIL TYPES - TECHNICAL DATA

FLUID COILS



Fluid Coil

Cooling coils are most commonly used in chilled fluid systems for comfort conditioning of a forced air stream and in process systems for dehumidification purposes. A large variety of drainable circuiting options makes them a good choice for most general heat transfer applications. For use with water, glycols, brines or thermal oils.

Construction

Tubing	1/2" O.D. Copper, 5/8" O.D. Copper, Cupronickel
Circuiting	Quarter, Half, Three Quarter, Single, One and one half, Double or Custom

Rows	1-10 or custom
Fin Material	Aluminium or copper
Fin Surface	Sine Wave (5/8") / Corrugated (1/2")
Frames (End Plates)	Galvanized Steel, Stainless Steel, Brass or Aluminium
Finish	Natural, Koil Kote or Electroplated
Connections	Plain Copper or BSP Brass
Header Style	Collection header or return bend type

Stainless steel coils also available upon request (also suitable for ammonia applications).

HEATING COILS

Fluid heating coils are most commonly used in hot water systems for comfort conditioning of a forced air stream and in process systems for drying purposes. The collector header design with internal baffles provides circuiting flexibility while eliminating the need for return bends. Fluid heating coils are provided with a variety of casing configurations including fully flanged, slip and drive (upon request) or end plates only.



Construction

Tubing	1/2" O.D. Copper, 5/8" O.D. Copper, Cupronickel
Type	Single or Double (For Booster) 1/2 circuit, full circuit, 1/4 circuit or custom (hot water coils)
Rows	1-2 (Boosters), 1-10 (hot water coils) and custom
Fin Material	Aluminium or copper
Fin Surface	Sine Wave (5/8") / Corrugated (1/2")
Frames (End Plates)	Galvanized Steel, Stainless Steel, Brass or Aluminium
Finish	Natural, Koil Kote or Electroplated
Connections	Plain Copper

STEAM COILS

Standard construction is available for high and low pressure applications. Standard steam type is the basic 5/8" tube steam coil, known as the single tube design. The steam supply and condensate return headers and connections are normally at the opposite ends of the coil. Uniform steam distribution to each of the coil core tubes is accomplished by proper header assembly design. The steam supply connection should be located in the centre of the header, with a perforated plate type baffle located directly behind this connection. Properly sized orifices are located in each of the core tube entrances into the header.



Construction

Tubing	5/8" O.D. Copper, Cupronickel, fully floating coil blocks designed to expand and contract in the casing without wear and tear
Rows	1-2 (as standard)
Fin Material	Aluminium or copper
Fin Surface	Sine Wave (5/8")
Frames (End Plates)	Galvanized Steel, Stainless Steel, Brass or Aluminium
Connections	Plain Copper or Steel BSP thread

REFRIGERANT COILS

Single, or multiple compressor circuits allow precise capacity control. Unique interlaced circuiting options assure uniform refrigerant distribution over the entire face area of the coil. Wide fin spacing availability reduces the affect of frost build up on low temperature applications. For use in central systems or duct applications.



Construction

Tubing	3/8", 1/2" and 5/8" O.D. Copper
Circuiting Type	Quarter, Half, Three Quarter, Single, One-and-one-half. Double or Custom: Single compressor circuit Face control: multiple compressor circuits Row control: 2 compressor circuits Interlaced: 2 compressor circuits Interlaced face control: 4 compressor circuits
Rows	1-10 or custom
Fin Material	Aluminium or copper
Fin Surface	Sine Wave (5/8") / Corrugated (1/2" & 3/8")
Frames (End Plates)	Galvanized Steel, Stainless Steel, Brass or Aluminium
Finish	Natural, Pre Coated Fin or Koil Kote
Connections	Plain Copper

COIL CAPABILITY SCHEDULE

Tube Diameter (mm/in)	Fin Type (Series)	Pattern (mm)		Fin Profile		FPM (f.p.i.) Min-Max	Enhanced Tube	Rows Deep (C) for		Fin Height (D) No. of Tubes		Finned Length (E)	
		A	B	Face	Edge			Max	Min	X	Y	X	Y
9.5 (3/8")	3000	25.4	22	Corrugated	Rippled	236-630 (6-16)	Yes	1-6	2	36	60	2200	3800
12.7 (1/2")**	4000	31.8	27.5	Corrugated	Rippled	197-630 (5-16)	Yes	1-17	2	–	46	4826	
15.9 (5/8")**	5000	38.1	33	Sinewave Corrugated Flat	Rippled	157-551 (4-14)	N/A	1-12	2	–	38	4826	

*Greater lengths can be achieved if the construction is the same as a Contract Coil.

**Flexpanded & /Or Hydropell Expanded (Braized return bends either end of coil).

Please consult Heatcraft for coils outside the specified limits.

'X' represents maximum size for mechanical expansion and 'Y' represents maximum size for hydropell and flexpanding operations.

Heatcraft reserves the right to alter specifications at any time without notice.

FINS

Die-formed, plate type (enhanced or corrugated surfaces with a rippled or straight edge). The tempered aluminium or copper fins are easily cleaned and damage resistant. Extruded fin collars provide maximum heat transfer and accurate fin spacing.

TUBES

Seam welded and seamless drawn copper. The tubes are mechanically or hydraulically expanded into fins to form a permanent metal-to-metal bond for maximum heat transfer and stability. A variety of enhancements and tube wall thicknesses are available to meet special requirements.

BRAZING

All joints are hand-brazed with copper brazing alloys.

DEHYDRATION

Coils are dehydrated to dry them internally and externally.

TESTING

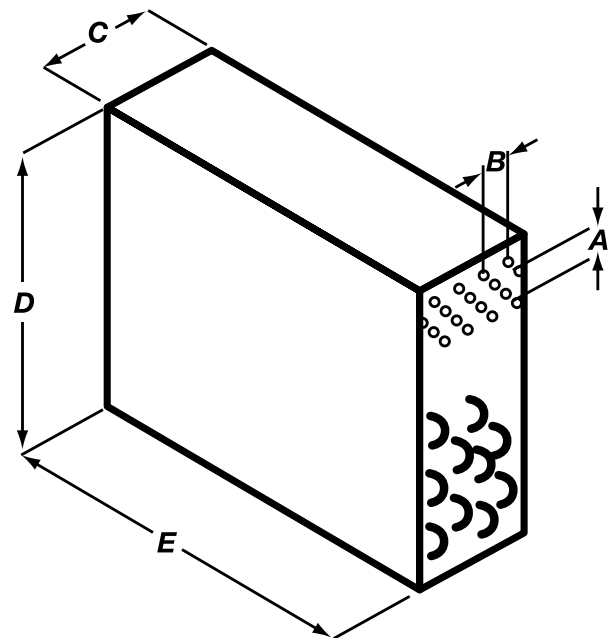
Coils are leak-tested under water with 2900 kpa dry air. After testing, all coils are sealed for shipment.

MATERIALS

End plates and flanges: Brass, gal, steel, aluminium, s/steel. Fins: Copper, Aluminium.

PROTECTION

Various methods of coil protection are available including: Koil Kote, Passivation, Electrotinning and Painting.

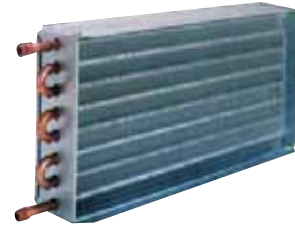


CROSS FIN COIL NOMENCLATURE

COIL NOMENCLATURE

This template should be used when ordering a Standard Cross Fin Coil

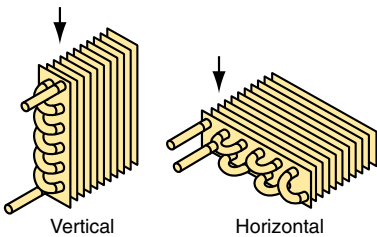
Example only for ordering **Standard** Cross Fin Coil



3 **H** **8** **4** **K** **0** **4** **0** **0** **A** (XXX)

3 TUBE DIAMETER (O.D.)
 3 = 9.5mm (3/8")
 4 = 12.7 mm (1/2 ")
 5 = 15.8 mm (5/8 ")

H Mounting Position:
 H = Horizontal
 V = Vertical



8 Number of tubes: wide/high:
 2 to 8 inclusive

4 Number of rows:
 1, 2, 3 or 4

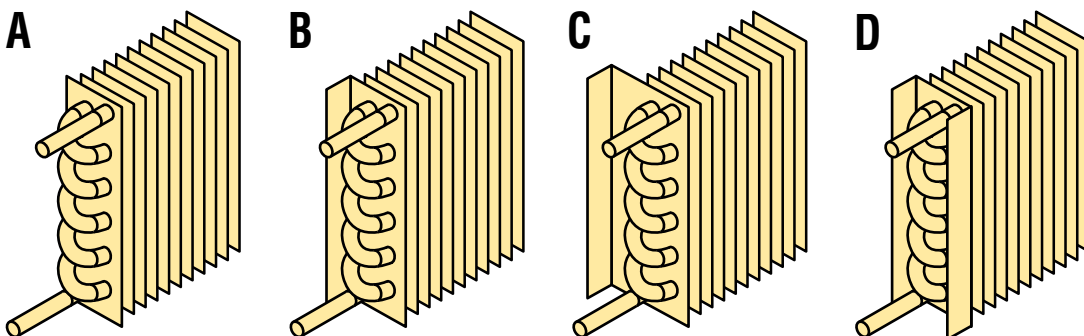
K Fin pitch (F.P):
 K = 12.5 mm FP (equivalent to 2 FPI)
 L = 8.33 mm FP (equivalent to 3 FPI)
 M = 6.25 mm FP (equivalent to 4 FPI)

0 **4** **0** **0**

Overall length including "U" Bends (excluding tails) in increments of (20mm from 400 to 4100mm)

A End plate options A, B, C, or D as indicated below

END PLATE OPTIONS



CROSS FIN COILS - 3/8"

Capacities are based on a finned length of 1000 mm @ 12 KTD at a SST of -8° C.

N.B. (It is necessary to allow an extra 50mm at either end for the return bends)

Please refer to nomenclature for instructions when ordering a crossfin coil.

R22 SELECTION, RATING & DIMENSIONAL DATA

Tubes High/Wide (T) & Rows (R)	Horizontal Mounting					Vertical Mounting					List Price
	Depth (mm)	Height (mm)	Capacity @ 2 FPI	Capacity @ 3 FPI	Capacity @ 4 FPI	Height (mm)	Depth (mm)	Capacity @ 2 FPI	Capacity @ 3 FPI	Capacity @ 4 FPI	
3/8" O.D. Tube (9.5mm) - Capacity (Watts)											
2T2R	57	50	57	74	90	57	50	64	81	95	P.O.A.
3T2R	83	50	83	109	132	83	50	85	103	117	P.O.A.
4T2R	108	50	112	146	180	108	50	101	119	132	P.O.A.
5T2R	133	50	146	194	238	133	50	117	135	146	P.O.A.
6T2R	159	50	181	241	296	159	50	130	146	155	P.O.A.
7T2R	184	50	215	285	350	184	50	140	154	159	P.O.A.
8T2R	210	50	251	332	406	210	50	148	157	159	P.O.A.
2T3R	57	72	78	98	115	57	72	93	117	139	P.O.A.
3T3R	83	72	115	148	175	83	72	125	154	176	P.O.A.
4T3R	108	72	164	210	248	108	72	157	186	206	P.O.A.
5T3R	133	72	212	271	320	133	72	180	207	223	P.O.A.
6T3R	159	72	260	331	390	159	72	198	221	234	P.O.A.
7T3R	184	72	304	385	451	184	72	211	230	240	P.O.A.
8T3R	210	72	349	441	514	210	72	220	237	244	P.O.A.
2T4R	57	94	95	117	134	57	94	124	157	187	P.O.A.
3T4R	83	94	148	184	211	83	94	177	217	246	P.O.A.
4T4R	108	94	207	256	293	108	94	217	255	281	P.O.A.
5T4R	133	94	264	325	371	133	94	245	280	300	P.O.A.
6T4R	159	94	320	392	445	159	94	266	295	311	P.O.A.
7T4R	184	94	370	450	509	184	94	282	305	316	P.O.A.
8T4R	210	94	421	509	570	210	94	292	311	319	P.O.A.
2T5R	57	116	112	136	153	57	116	164	210	250	P.O.A.
3T5R	83	116	175	210	236	83	116	231	282	321	P.O.A.
4T5R	108	116	241	288	321	108	116	279	327	359	P.O.A.
5T5R	133	116	305	363	402	133	116	313	355	379	P.O.A.
6T5R	159	116	365	433	477	159	116	337	372	390	P.O.A.
7T5R	184	116	419	492	538	184	116	353	382	394	P.O.A.
8T5R	210	116	471	548	595	210	116	365	386	395	P.O.A.

The refrigerant pressure drop will vary, proportionately with the number of tubes in a coil and its finned length

R134A SELECTION, RATING & DIMENSIONAL DATA

Tubes High/Wide (T) & Rows (R)	Horizontal Mounting					Vertical Mounting					List Price
	Depth (mm)	Height (mm)	Capacity @ 2 FPI	Capacity @ 3 FPI	Capacity @ 4 FPI	Height (mm)	Depth (mm)	Capacity @ 2 FPI	Capacity @ 3 FPI	Capacity @ 4 FPI	
3/8" O.D. Tube (9.5mm) - Capacity (Watts)											
2T2R	57	50	54	70	85	57	50	61	76	90	P.O.A.
3T2R	83	50	79	103	125	83	50	80	98	111	P.O.A.
4T2R	108	50	109	145	178	108	50	99	118	131	P.O.A.
5T2R	133	50	144	191	234	133	50	116	133	145	P.O.A.
6T2R	159	50	179	236	289	159	50	129	144	154	P.O.A.
7T2R	184	50	211	278	338	184	50	138	152	156	P.O.A.
8T2R	210	50	245	320	387	210	50	146	155	163	P.O.A.
2T3R	57	72	74	93	109	57	72	88	111	130	P.O.A.
3T3R	83	72	114	146	173	83	72	124	152	174	P.O.A.
4T3R	108	72	161	206	244	108	72	155	183	203	P.O.A.
5T3R	133	72	208	264	310	133	72	178	204	220	P.O.A.
6T3R	159	72	253	318	371	159	72	194	217	229	P.O.A.
7T3R	184	72	293	365	422	184	72	207	225	234	P.O.A.
8T3R	210	723	314	104	69	210	72	215	230	237	P.O.A.
2T4R	57	94	92	115	132	57	94	122	156	185	P.O.A.
3T4R	83	94	147	181	208	83	94	174	213	242	P.O.A.
4T4R	108	94	203	249	285	108	94	212	249	274	P.O.A.
5T4R	133	94	257	312	353	133	94	239	272	291	P.O.A.
6T4R	159	94	307	369	413	159	94	258	285	298	P.O.A.
7T4R	184	94	347	414	458	184	94	271	292	301	P.O.A.
8T4R	210	94	387	454	498	210	94	279	295	302	P.O.A.
2T5R	57	116	111	134	152	57	116	162	207	245	P.O.A.
3T5R	83	116	172	207	231	83	116	226	275	311	P.O.A.
4T5R	108	116	235	280	310	108	116	271	314	343	P.O.A.
5T5R	133	116	293	343	377	133	116	300	336	357	P.O.A.
6T5R	159	116	342	397	431	159	116	318	347	363	P.O.A.
7T5R	184	116	382	437	470	184	116	329	353	362	P.O.A.
8T5R	210	116	418	471	501	210	116	337	354	364	P.O.A.

The refrigerant pressure drop will vary, proportionately with the number of tubes in a coil and its finned length

CROSS FIN COILS - 1/2"

Capacities are based on a finned length of 1000 mm @ 12 KTD at a SST of -8° C.

N.B. (It is necessary to allow an extra 50 mm at either end for the return bends)

Please refer to nomenclature for instructions when ordering a crossfin coil.

R22 SELECTION, RATING & DIMENSIONAL DATA											
Tubes High/Wide (T) & Rows (R)	Horizontal Mounting					Vertical Mounting					List Price
	Depth (mm)	Height (mm)	Capacity @ 2 FPI	Capacity @ 3 FPI	Capacity @ 4 FPI	Height (mm)	Depth (mm)	Capacity @ 2 FPI	Capacity @ 3 FPI	Capacity @ 4 FPI	
1/2" O.D. Tube (9.5mm) - Capacity (Watts)											
2T1R	70	34	44	62	81	70	34	47	60	70	P.O.A.
3T1R	101	34	67	94	120	101	34	62	76	86	P.O.A.
4T1R	133	34	89	124	161	133	34	73	86	95	P.O.A.
5T1R	165	34	110	155	201	165	34	82	93	101	P.O.A.
6T1R	197	34	132	188	241	197	34	88	98	105	P.O.A.
7T1R	229	34	156	218	281	229	34	93	103	107	P.O.A.
8T1R	260	34	178	250	323	260	34	98	105	110	P.O.A.
2T2R	70	61	81	108	134	70	61	94	120	141	P.O.A.
3T2R	101	61	121	163	201	101	61	124	151	171	P.O.A.
4T2R	133	61	161	217	268	133	61	146	172	190	P.O.A.
5T2R	165	61	202	272	336	165	61	164	187	202	P.O.A.
6T2R	197	61	242	327	402	197	61	177	198	210	P.O.A.
7T2R	229	61	283	386	479	229	61	187	206	216	P.O.A.
8T2R	260	61	333	452	560	260	61	197	213	221	P.O.A.
2T3R	70	89	110	142	170	70	89	141	180	212	P.O.A.
3T3R	101	89	166	215	255	101	89	186	227	257	P.O.A.
4T3R	133	89	221	286	341	133	89	220	259	285	P.O.A.
5T3R	165	89	279	366	436	165	89	247	284	306	P.O.A.
6T3R	197	89	345	450	536	197	89	273	304	322	P.O.A.
7T3R	229	89	409	533	634	229	89	291	318	331	P.O.A.
8T3R	260	89	474	616	731	260	89	305	327	337	P.O.A.
2T4R	70	116	135	169	195	70	116	188	240	282	P.O.A.
3T4R	101	116	202	254	293	101	116	249	303	344	P.O.A.
4T4R	133	116	275	347	401	133	116	299	353	389	P.O.A.
5T4R	165	116	354	446	514	165	116	342	390	418	P.O.A.
6T4R	197	116	431	542	623	197	116	373	414	435	P.O.A.
7T4R	229	116	509	636	729	229	116	395	429	445	P.O.A.
8T4R	260	116	584	729	831	260	116	412	439	450	P.O.A.

R134A SELECTION, RATING & DIMENSIONAL DATA

Tubes High/Wide (T) & Rows (R)	Horizontal Mounting					Vertical Mounting					List Price
	Depth (mm)	Height (mm)	Capacity @ 2 FPI	Capacity @ 3 FPI	Capacity @ 4 FPI	Height (mm)	Depth (mm)	Capacity @ 2 FPI	Capacity @ 3 FPI	Capacity @ 4 FPI	
1/2" O.D. Tube (9.5mm) - Capacity (Watts)											
2T1R	70	34	42	59	76	70	34	45	57	67	P.O.A.
3T1R	101	34	63	89	114	101	34	59	72	82	P.O.A.
4T1R	133	34	84	118	152	133	34	70	83	91	P.O.A.
5T1R	165	34	105	147	189	165	34	79	90	98	P.O.A.
6T1R	197	34	126	176	228	197	34	85	96	102	P.O.A.
7T1R	229	34	147	206	266	229	34	90	100	105	P.O.A.
8T1R	260	34	169	236	303	260	34	94	102	107	P.O.A.
2T2R	70	61	77	103	127	70	61	90	114	134	P.O.A.
3T3R	101	61	115	155	191	101	61	118	144	164	P.O.A.
4T2R	133	61	154	206	254	133	61	140	166	183	P.O.A.
5T2R	165	61	193	258	318	165	61	157	181	195	P.O.A.
6T2R	197	61	232	316	391	197	61	171	192	204	P.O.A.
7T2R	229	61	279	379	469	229	61	184	203	213	P.O.A.
8T2R	260	61	327	442	545	260	61	195	211	219	P.O.A.
2T3R	70	89	105	136	162	70	89	134	171	201	P.O.A.
3T3R	101	89	158	205	243	101	89	178	217	246	P.O.A.
4T3R	133	89	212	276	331	133	89	212	251	277	P.O.A.
5T3R	165	89	275	359	428	165	89	245	281	302	P.O.A.
6T3R	197	89	338	439	521	197	89	269	301	318	P.O.A.
7T3R	229	89	400	517	610	229	89	287	314	327	P.O.A.
8T3R	260	89	460	592	694	260	89	301	322	332	P.O.A.
2T4R	70	116	129	162	187	70	116	179	228	268	P.O.A.
3T4R	101	116	194	245	284	101	116	239	294	335	P.O.A.
4T4R	133	116	271	341	394	133	116	295	348	382	P.O.A.
5T4R	165	116	347	435	500	165	116	336	383	410	P.O.A.
6T4R	197	116	420	524	598	197	116	365	405	426	P.O.A.
7T4R	229	116	491	607	688	229	116	386	419	434	P.O.A.
8T4R	260	116	558	684	770	260	116	401	427	438	P.O.A.

The refrigerant pressure drop will vary, proportionately with the number of tubes in a coil and its finned length

CROSS FIN COILS - 5/8"

Capacities are based on a finned length of 1000 mm @ 12 KTD at a SST of -8° C.

N.B. (It is necessary to allow an extra 50mm at either end for the return bends)

Please refer to nomenclature for instructions when ordering a crossfin coil.

R22 SELECTION, RATING & DIMENSIONAL DATA											
Tubes High/Wide (T) & Rows (R)	Horizontal Mounting					Vertical Mounting					List Price
	Depth (mm)	Height (mm)	Capacity @ 2 FPI	Capacity @ 3 FPI	Capacity @ 4 FPI	Height (mm)	Depth (mm)	Capacity @ 2 FPI	Capacity @ 3 FPI	Capacity @ 4 FPI	
5/8" O.D. Tube (9.5mm) - Capacity (Watts)											
2T1R	82	41	52	74	98	82	41	63	79	91	P.O.A.
3T1R	121	41	77	111	146	121	41	82	98	109	P.O.A.
4T1R	158	41	103	149	195	158	41	95	110	119	P.O.A.
5T1R	197	41	129	186	244	197	41	105	118	125	P.O.A.
6T1R	235	41	155	223	292	235	41	112	123	130	P.O.A.
7T1R	273	41	181	260	342	273	41	118	126	132	P.O.A.
8T1R	311	41	207	297	391	311	41	121	130	133	P.O.A.
2T2R	82	74	94	130	162	82	74	127	159	184	P.O.A.
3T2R	121	74	142	195	244	121	74	164	197	219	P.O.A.
4T2R	158	74	189	260	326	158	74	191	221	239	P.O.A.
5T2R	197	74	236	326	407	197	74	211	237	252	P.O.A.
6T2R	235	74	284	391	488	235	74	226	248	260	P.O.A.
7T2R	273	74	331	456	569	273	74	237	256	265	P.O.A.
8T2R	311	74	379	520	649	311	74	246	262	269	P.O.A.
2T3R	82	107	129	171	206	82	107	190	239	277	P.O.A.
3T3R	121	107	195	257	310	121	107	246	295	330	P.O.A.
4T3R	158	107	260	344	413	158	107	287	332	360	P.O.A.
5T3R	197	107	325	429	515	197	107	317	356	378	P.O.A.
6T3R	235	107	390	514	617	235	107	339	373	390	P.O.A.
7T3R	273	107	456	606	730	273	107	356	383	397	P.O.A.
8T3R	311	107	531	705	848	311	107	371	395	405	P.O.A.
2T4R	82	140	159	203	236	82	140	254	320	370	P.O.A.
3T4R	121	140	238	305	355	121	140	330	395	440	P.O.A.
4T4R	158	140	318	407	473	158	140	384	443	480	P.O.A.
5T4R	197	140	397	507	592	197	140	423	475	504	P.O.A.
6T4R	235	140	486	623	725	235	140	459	503	525	P.O.A.
7T4R	273	140	576	737	856	273	140	486	521	538	P.O.A.
8T4R	311	140	665	850	985	311	140	505	533	545	P.O.A.

R134A SELECTION, RATING & DIMENSIONAL DATA

Tubes High/Wide (T) & Rows (R)	Horizontal Mounting					Vertical Mounting					List Price
	Depth (mm)	Height (mm)	Capacity @ 2 FPI	Capacity @ 3 FPI	Capacity @ 4 FPI	Height (mm)	Depth (mm)	Capacity @ 2 FPI	Capacity @ 3 FPI	Capacity @ 4 FPI	
5/8" O.D. Tube (9.5mm) - Capacity (Watts)											
2T1R	82	41	49	71	92	82	41	61	75	87	P.O.A.
3T1R	121	41	74	106	139	121	41	79	94	105	P.O.A.
4T1R	158	41	98	141	185	158	41	92	106	115	P.O.A.
5T1R	197	41	123	176	231	197	41	102	115	122	P.O.A.
6T1R	235	41	148	212	277	235	41	109	120	126	P.O.A.
7T1R	273	41	173	247	324	273	41	115	125	128	P.O.A.
8T1R	311	41	197	283	370	311	41	120	127	132	P.O.A.
2T2R	82	74	91	124	155	82	74	121	152	176	P.O.A.
3T2R	121	74	136	186	232	121	74	157	189	211	P.O.A.
4T2R	158	74	181	248	311	158	74	184	213	232	P.O.A.
5T2R	197	74	226	311	387	197	74	204	230	245	P.O.A.
6T2R	235	74	272	373	464	235	74	219	242	254	P.O.A.
7T2R	273	74	317	434	540	273	74	230	250	260	P.O.A.
8T2R	311	74	362	495	619	311	74	240	256	264	P.O.A.
2T3R	82	107	124	164	197	82	107	182	228	264	P.O.A.
3T3R	121	107	187	246	296	121	107	237	284	317	P.O.A.
4T3R	158	107	249	329	395	158	107	276	321	348	P.O.A.
5T3R	197	107	311	410	492	197	107	306	345	367	P.O.A.
6T3R	235	107	376	499	601	235	107	330	364	382	P.O.A.
7T3R	273	107	448	594	713	273	107	352	380	394	P.O.A.
8T3R	311	107	520	687	822	311	107	367	390	401	P.O.A.
2T4R	82	140	152	195	227	82	140	243	305	354	P.O.A.
3T4R	121	140	229	293	342	121	140	316	379	422	P.O.A.
4T4R	158	140	305	390	454	158	140	369	426	463	P.O.A.
5T4R	197	140	390	499	582	197	140	416	468	497	P.O.A.
6T4R	235	140	477	609	707	235	140	452	496	518	P.O.A.
7T4R	273	140	563	716	828	273	140	478	514	529	P.O.A.
8T4R	311	140	647	818	941	311	140	496	524	536	P.O.A.

The refrigerant pressure drop will vary, proportionately with the number of tubes in a coil and its finned length



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