



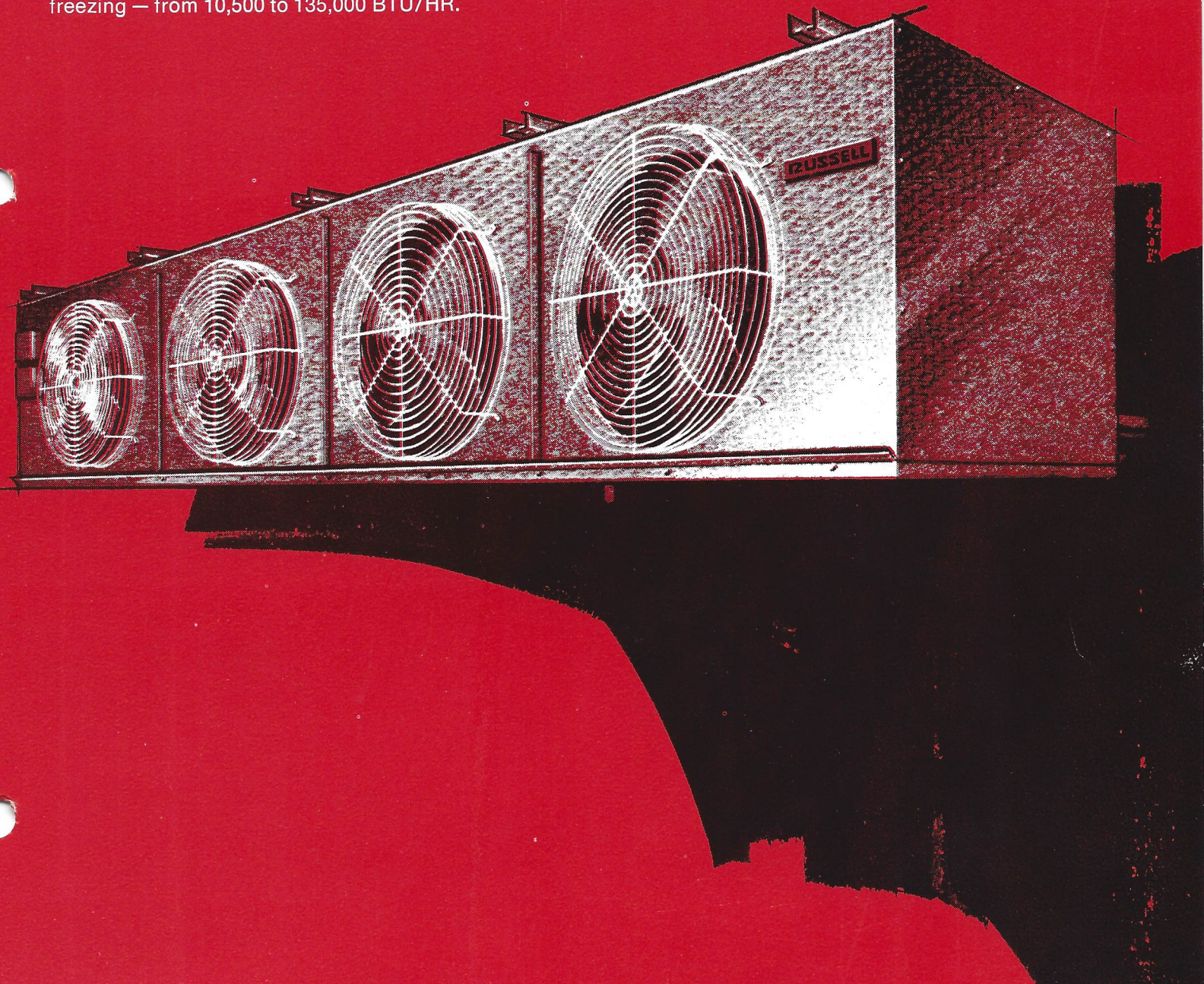
**RUSSELL**

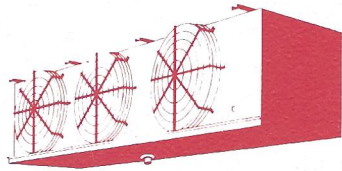
# SUPER<sub>2</sub>TEMP

HIGH POWERED UNIT COOLERS

Versatility unlimited! A total of 44 models with 74 selections! The most versatile large capacity unit for all high, medium and low temperature commercial and industrial applications.

For walk-in coolers, freezers, meat holding and packaging rooms, produce storage and blast freezing — from 10,500 to 135,000 BTU/HR.





**RUSSELL SUPER-TEMP** is exceptionally versatile. Most of the 44 standard models are available with optional oversize ½ H.P. motors — giving you a total selection of 74 models! The oversize motor option is available for heavy cooling operations requiring maximum air quantity and air throw.

With fin spacings of 4, 5, 6 and 7 fins per inch and close capacity increments, you can easily match SUPER-TEMP units right to your compressor capacity.

**RUSSELL-BOND™**, our exclusive manufacturing process, assures uniform, efficient heat transfer in every SUPER-TEMP unit.

### SUPER-TEMP FEATURES

**SIZE**—Giant capacity—compact, low profile.

**HOUSING**—Rust-proof all aluminum. Easy to service—all parts readily accessible. RUSS-PROOF vinyl coating available for corrosive atmospheres. Slotted hangers for fast installation.

**COIL**—Heavy gauge aluminum fins with copper tube cores. Aluminum tube coils available for ammonia applications—direct expansion or recirculation.

**FANS**—Deep pitch steel blades available with oversize motors for maximum cfm and high-velocity air discharge.

**MOTORS**—Life lubricated bearings. ¼ H.P. and ¼ H.P. standard. Most models available with ½ H.P. oversize motors. Choice of voltage—115/60/1, 230/60/1. Fan motors of 230/60/3 and 460/60/3 available at additional cost.

**AIR THROW**—Air throw for ¼ and ¼ horsepower motors is approximately 20 to 40 feet. For ½ horsepower motors the air throw is approximately 40 to 60 feet. Air throw variation is caused by installation variables. Maximum air throw is obtained with high ceiling with no interference from beams, etc.

**ELECTRICAL**—Completely factory prewired. All models U.L. Listed.

**REFRIGERANTS**—For use with R-12, R-22, and R-502. Available with Aluminum tubes for Ammonia. Specify refrigerant when ordering.

**DEFROST SYSTEM**—Air defrost for medium temperature; RUSSELL LIGHTNING Electric Defrost or Hot Gas Defrost for low temperature. See Russell Defrost Bulletins for details.

**APPLICATIONS**—Walk-ins, storage, freezer or blast freeze. To correctly size SUPER-TEMP unit coolers to any job requirement, refer to the ARDCO REFRIGERATION MANUAL.

## SPECIFICATIONS

MODEL	BTU/HR @ 10° TD	
	STD. MTR.	O/S MTR.
SU 14-105	10500	12000
SU 14-125	12500	14400
SU 14-150	15000	16400
SU 24-210	21000	24000
SU 24-250	25000	28800
SU 24-300	30000	32600
SU 34-375	37500	42500
SU 34-450	45000	49000
SU 44-500	50000	57500
SU 44-600	60000	65000
SU 44-790	79000	—
SU 15-130	13000	14900
SU 15-156	15600	17900
SU 15-187	18700	20400
SU 25-260	26000	29900
SU 25-312	31200	35900
SU 25-375	37500	40900
SU 35-466	46600	53500
SU 35-560	56000	61000
SU 45-625	62500	71800
SU 45-750	75000	81500
SU 45-990	99000	—
SU 16-150	15000	17200
SU 16-186	18600	21400
SU 16-224	22400	24400
SU 26-300	30000	34500
SU 26-373	37300	42800
SU 26-448	44800	48500
SU 36-540	54000	62000
SU 36-672	67200	73000
SU 46-720	72000	82500
SU 46-896	89600	96500
SU 46-1160	116000	—
SU 17-180	18000	—
SU 17-215	21500	—
SU 17-258	25800	—
SU 27-360	36000	—
SU 27-420	42000	—
SU 27-516	51600	—
SU 37-645	64500	—
SU 37-774	77400	—
SU 47-858	85800	—
SU 47-1030	103000	—
SU 47-1350	135000	—

**NOTE:** All units require externally equalized expansion valves. Install not less than 18" from wall.

Do not use oversized motors on high temperature applications with heavy latent loads due to possible water blow-off into room.

CFM		NO. & SIZE FAN		MOTOR H.P.		ELECTRICAL DEFROST - 230V			HOT GAS DEFROST	SURF. SQ. FT.
STD. MTR.	O/S MTR.	STD. MTR.	O/S MTR.	STD.	O/SIZE	WATTS	AMPS	PHASE	USE HEA	
1960	3400	1-18"	1-18"	1/6	1/2	3660	15.9	1	2A	318
1950	3250	1-18"	1-18"	1/6	1/2	3660	15.9	1	2A	382
2700	3600	1-20"	1-18"	1/4	1/2	4240	18.4	1	3A	458
3920	6800	2-18"	2-18"	1/6	1/2	7440	32.3	1	3A	635
3900	6500	2-18"	2-18"	1/6	1/2	7440	32.3	1	4A	764
5400	7200	2-20"	2-18"	1/4	1/2	8560	37.3	1	4A	916
5850	9750	3-18"	3-18"	1/6	1/2	10560	30.6	3	5A	1146
8100	10800	3-20"	3-18"	1/4	1/2	12240	37.6	3	5A	1374
7800	13000	4-18"	4-18"	1/6	1/2	13350	38.8	3	6A	1528
10800	14400	4-20"	4-18"	1/4	1/2	16110	48.4	3	6A	1832
14700	—	4-18"	—	1/2	—	16110	48.4	3	N/A	2440
1950	3300	1-18"	1-18"	1/6	1/2	3660	15.9	1	2A	392
1940	3160	1-18"	1-18"	1/6	1/2	3660	15.9	1	2A	470
2680	3540	1-20"	1-18"	1/4	1/2	4240	18.4	1	3A	565
3900	6600	2-18"	2-18"	1/6	1/2	7440	32.3	1	3A	734
3880	6320	2-18"	2-18"	1/6	1/2	7440	32.3	1	4A	940
5360	7080	2-20"	2-18"	1/4	1/2	8560	37.3	1	4A	1130
5820	9480	3-18"	3-18"	1/6	1/2	10560	30.6	3	5A	1410
8040	10620	3-20"	3-18"	1/4	1/2	12240	37.6	3	5A	1695
7760	12640	4-18"	4-18"	1/6	1/2	13350	38.8	3	6A	1880
10720	14160	4-20"	4-18"	1/4	1/2	16110	48.4	3	6A	2260
14400	—	4-18"	—	1/2	—	16110	48.4	3	N/A	3012
1930	3200	1-18"	1-18"	1/6	1/2	3660	15.9	1	2A	466
1920	3080	1-18"	1-18"	1/6	1/2	3660	15.9	1	2A	559
2660	3470	1-20"	1-18"	1/4	1/2	4240	18.4	1	3A	672
3860	6400	2-18"	2-18"	1/6	1/2	7440	32.3	1	3A	933
3840	6160	2-18"	2-18"	1/6	1/2	7440	32.3	1	4A	1118
5320	6940	2-20"	2-18"	1/4	1/2	8560	37.3	1	4A	1344
5760	9240	3-18"	3-18"	1/6	1/2	10560	30.6	3	5A	1677
7980	10410	3-20"	3-18"	1/4	1/2	12240	37.6	3	5A	2016
7680	12320	4-18"	4-18"	1/6	1/2	13350	38.8	3	6A	2236
10640	13880	4-20"	4-18"	1/4	1/2	16110	48.4	3	6A	2688
14100	—	4-18"	—	1/2	—	16110	48.4	3	N/A	3585
1920	—	1-18"	—	1/6	—	—	—	—	—	540
1910	—	1-18"	—	1/6	—	—	—	—	—	648
2640	—	1-20"	—	1/4	—	—	—	—	—	778
3840	—	2-18"	—	1/6	—	—	—	—	—	1080
3820	—	2-18"	—	1/6	—	—	—	—	—	1296
5280	—	2-20"	—	1/4	—	—	—	—	—	1556
5730	—	3-18"	—	1/6	—	—	—	—	—	1944
7920	—	3-20"	—	1/4	—	—	—	—	—	2334
7640	—	4-18"	—	1/6	—	—	—	—	—	2592
10560	—	4-20"	—	1/4	—	—	—	—	—	3112
13800	—	4-18"	—	1/2	—	—	—	—	—	4156

Model Numbers: SU14-105-E

SU—Super-Temp.

1—Number of fans.

4—Number of fins per inch.

105—BTU capacity in hundreds (10,500).

E or HG—Electric or Hot Gas defrost system.

When ordering specify:

1. Model number.

2. Type of defrost.

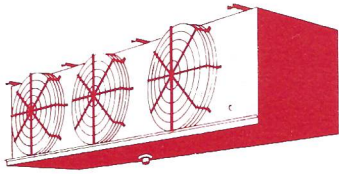
3. Electrical characteristics (voltage, frequency, phase).

4. Type of refrigerant.

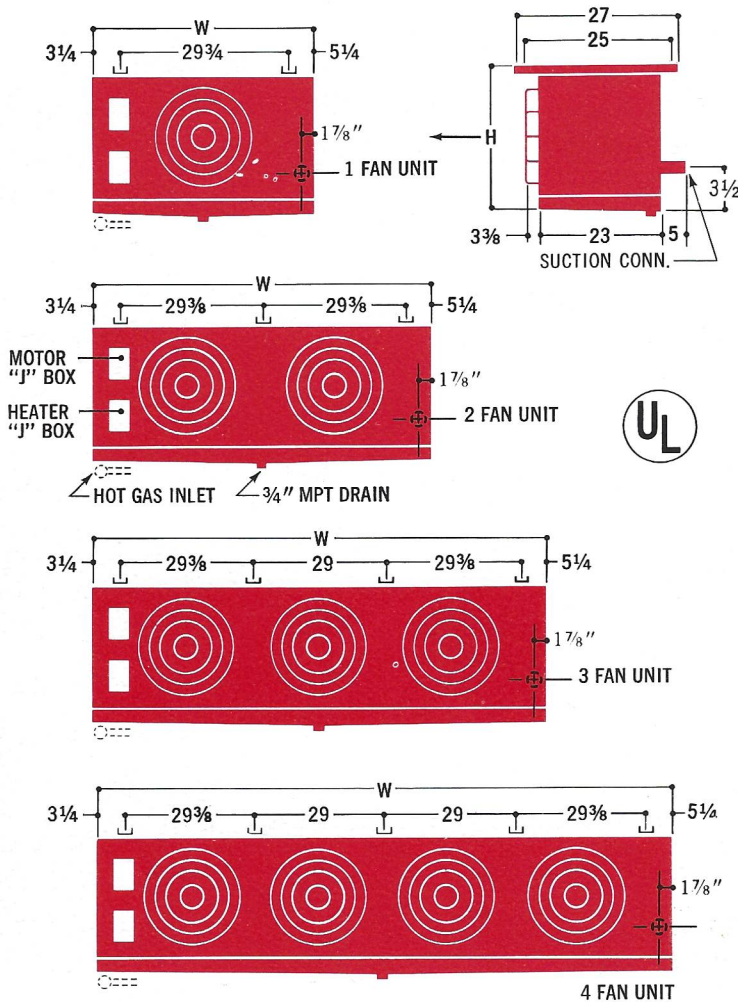
5. Suction temperature.

6. Entering air-to-refrigerant T.D.

7 Fins/Inch  
Not recommended  
for applications  
below 35°



## SPECIFICATIONS/MOUNTING DIMENSIONS



MODEL	LIQUID CONN.	SUCTION CONN.	HOT GAS CONN.	DIMENSIONS		WEIGHT
				H	W	
SU 14-105	1/2 FN	1 1/8 ODS	7/8 ODS	22"	38 1/4"	115
SU 14-125	1/2 FN	1 1/8 ODS	7/8 ODS	22"	38 1/4"	120
SU 14-150	1/2 FN	1 3/8 ODS	7/8 ODS	26"	38 1/4"	135
SU 24-210	7/8 ODS	1 3/8 ODS	1 1/8 ODS	22"	67 1/4"	230
SU 24-250	7/8 ODS	1 5/8 ODS	1 1/8 ODS	22"	67 1/4"	265
SU 24-300	7/8 ODS	1 5/8 ODS	1 1/8 ODS	26"	67 1/4"	270
SU 34-375	1 1/8 ODS	2 1/8 ODS	1 3/8 ODS	22"	96 1/4"	400
SU 34-450	1 1/8 ODS	2 1/8 ODS	1 3/8 ODS	26"	96 1/4"	430
SU 44-500	1 3/8 ODS	2 1/8 ODS	1 5/8 ODS	22"	125 1/4"	530
SU 44-600	1 3/8 ODS	2 1/8 ODS	1 5/8 ODS	26"	125 1/4"	560
SU 44-790	1 3/8 ODS	2 1/8 ODS	—	34"	125 1/4"	715
SU 15-130	1/2 FN	1 1/8 ODS	7/8 ODS	22"	38 1/4"	120
SU 15-156	1/2 FN	1 1/8 ODS	7/8 ODS	22"	38 1/4"	125
SU 15-187	1/2 FN	1 3/8 ODS	7/8 ODS	26"	38 1/4"	140
SU 25-260	7/8 ODS	1 3/8 ODS	1 1/8 ODS	22"	67 1/4"	270
SU 25-312	7/8 ODS	1 5/8 ODS	1 1/8 ODS	22"	67 1/4"	277
SU 25-375	7/8 ODS	1 5/8 ODS	1 1/8 ODS	26"	67 1/4"	280
SU 35-466	1 1/8 ODS	2 1/8 ODS	1 3/8 ODS	22"	96 1/4"	420
SU 35-560	1 1/8 ODS	2 1/8 ODS	1 3/8 ODS	26"	96 1/4"	440
SU 45-625	1 3/8 ODS	2 1/8 ODS	1 5/8 ODS	22"	125 1/4"	540
SU 45-750	1 3/8 ODS	2 1/8 ODS	1 5/8 ODS	26"	125 1/4"	580
SU 45-990	1 3/8 ODS	2 1/8 ODS	—	34"	125 1/4"	740
SU 16-150	1/2 FN	1 1/8 ODS	7/8 ODS	22"	38 1/4"	125
SU 16-186	1/2 FN	1 1/8 ODS	7/8 ODS	22"	38 1/4"	140
SU 16-224	1/2 FN	1 3/8 ODS	7/8 ODS	26"	38 1/4"	150
SU 26-300	7/8 ODS	1 3/8 ODS	1 1/8 ODS	22"	67 1/4"	280
SU 26-373	7/8 ODS	1 5/8 ODS	1 1/8 ODS	22"	67 1/4"	285
SU 26-448	7/8 ODS	1 5/8 ODS	1 1/8 ODS	26"	67 1/4"	295
SU 36-540	1 1/8 ODS	2 1/8 ODS	1 3/8 ODS	22"	96 1/4"	435
SU 36-672	1 1/8 ODS	2 1/8 ODS	1 3/8 ODS	26"	96 1/4"	455
SU 46-720	1 3/8 ODS	2 1/8 ODS	1 5/8 ODS	22"	125 1/4"	580
SU 46-896	1 3/8 ODS	2 1/8 ODS	1 5/8 ODS	26"	125 1/4"	605
SU 46-1160	1 3/8 ODS	2 1/8 ODS	—	34"	125 1/4"	770
SU 17-180	1/2 FN	1 1/8 ODS	—	22"	38 1/4"	130
SU 17-215	1/2 FN	1 1/8 ODS	—	22"	38 1/4"	145
SU 17-258	1/2 FN	1 3/8 ODS	—	26"	38 1/4"	160
SU 27-360	7/8 ODS	1 3/8 ODS	—	22"	67 1/4"	290
SU 27-420	7/8 ODS	1 5/8 ODS	—	22"	67 1/4"	300
SU 27-516	7/8 ODS	1 5/8 ODS	—	26"	67 1/4"	310
SU 37-645	1 1/8 ODS	2 1/8 ODS	—	22"	96 1/4"	445
SU 37-774	1 1/8 ODS	2 1/8 ODS	—	26"	96 1/4"	482
SU 47-858	1 3/8 ODS	2 1/8 ODS	—	22"	125 1/4"	600
SU 47-1030	1 3/8 ODS	2 1/8 ODS	—	26"	125 1/4"	620
SU 47-1350	1 3/8 ODS	2 1/8 ODS	—	34"	125 1/4"	790

Note: When unit motor current exceeds 16 amp. and a fan delay is used with the defrost system, a fan contactor must be provided since the capacity of the fan delay switch is 16 amp. maximum.

When three phase motors are used a junction box for each motor is provided at the upper left of each fan section.

When 3 phase heaters are provided a separate junction box is provided for the heater connection at the end opposite the headers.

### MOTOR AMPS

HP	115/60/1	230/60/1	230/60/3	460/60/3
1/6	5.6	2.8	—	—
1/4	8.6	4.6	1.4	.7
1/2	8.4	4.2	2.2	1.1

**RUSSELL COIL COMPANY**

221 SOUTH BERRY STREET BREA, CALIFORNIA 92621 Phone (714) 529-1935 LOS ANGELES (213) 691-3246

A Subsidiary of Ardco, Inc.