

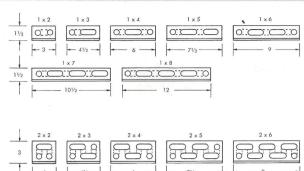
RUSSELL

COIL COMPANY

FINNED GRAVITY COILS

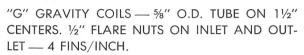
AND

MODEL "J" CONDENSER SURFACE



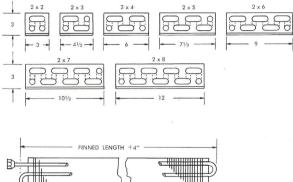






CAPACITIES AT 15° TD PER LINEAL FT. FINNED TUBING IN COIL:

- 2 FINS/INCH 18.55 BTU/HR./LIN. FT./TUBE
- 3 FINS/INCH 23.67 BTU/HR./LIN. FT./TUBE
- 4 FINS/INCH 28.03 BTU/HR./LIN. FT./TUBE



FINNED LENGTH

MODEL "J" CONDENSER SURFACE

3/8" OD copper tubing on 1" centers. Capacities below are based on: 3 ROW DEEP COIL 8 FINS PER INCH 500 FPM FACE VELOCITY 40° F. SUCTION TEMP.

BASE CAPACITY BTU/HR/FT. SQ. FACE AREA					
ENT. AIR	CONDENSING TEMPERATURE				
°F	105	110	115	120	130
80	5450	6500			
90	3360	4410	5450	6500	
100		2200	3360	4410	6500
105			2200	3360	5450

ABOVE CAPACITIES ALLOW 25% FOR HEAT OF COMPRESSION FOR 4 ROW DEEP COIL, MULTIPLY BASE CAPACITY BY 1.13 FOR 6 ROW DEEP COIL, MULTIPLY BASE CAPACITY BY 1.35 FOR 600 FPM FACE VELOCITY, MULTIPLY BASE CAPACITY BY 1.40 FOR 700 FPM FACE VELOCITY, MULTIPLY BASE CAPACITY BY 1.21 FOR 10 FINS PER INCH, MULTIPLY BASE CAPACITY BY 1.13

SUCTION TEMP. MULTIPLIERS			
SUCT. TEMP.	MULTIPLIER		
30	.98		
25	.96		
20	.95		
15	.92		

HOW TO USE MULTIPLIERS: What is capacity per sq. ft. face area for a 4 row "J" Condenser Coil, with the evaporator operating at 20° suction, Condenser in 100° ambient and a 130° condensing temperature desired, with 10 FPI and a face yelocity of 600 FPM?

FROM ABOVE FACTORS: Base capacity 6500 BTU/hr. x 1.13 (4 row coil) x 0.95 (20° suction multiplier) x 1.07 (10 FPI multiplier) x 1.10 (600 FPM multiplier) = 8210 BTU/hr. FT² face area. Should your evaporator have a 24,000 BTU/hr.

capacity at 20° suction, the 4 row condenser would require 3 sq. ft. of surface area.

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