

**RATING CONDITIONS**

11.1 K Superheat  
 8.3 K Subcooling  
 35 C Ambient Air Over

50 Hz Operation

# AIR CONDITIONING

**CR53KQ-TFD**

COPELAWELD® HCFC-22  
 COMPRESSOR  
 TFD 380/420-3-50

**Evaporating Temperature C (Sat Dew Pt Pressure, bar)**

		-23(2.2)	-20(2.4)	-15(3)	-10(3.5)	-5(4.2)	0(5)	5(5.8)	7(6.2)	10(6.8)	12.5(7.3)
Condensing Temperature C (Sat Dew Pt Pressure, bar)	65 (27) C						7800	9850	10750	12150	13400
	P						4360	4850	5050	5250	5450
	A						8.1	8.8	9	9.3	9.6
	M						55	69	74.5	84	92
	E						1.8	2	2.1	2.3	2.5
	%						57.9	58.5	58.6	58.8	58.8
	60 (24) C					6650	8650	10850	11800	13350	14650
	P					3730	4220	4630	4780	4970	5100
	A					7.2	7.9	8.4	8.6	8.9	9.1
	M					45.6	58.3	72	78	87.5	95.5
	E					1.8	2	2.3	2.5	2.7	2.9
%					58.1	59	59.6	59.7	59.7	59.6	
55 (22) C				5550	7400	9500	11850	12850	14500	15900	
P				3170	3640	4050	4400	4510	4660	4770	
A				6.4	7.1	7.6	8.1	8.2	8.4	8.6	
M				37	48.5	61.3	75.5	81.5	91	99.5	
E				1.8	2	2.4	2.7	2.9	3.1	3.3	
%				57.5	59	59.9	60.3	60.3	60.2	59.9	
50 (19) C				6200	8150	10400	12850	13950	15600	17100	
P				3120	3520	3870	4140	4240	4350	4430	
A				6.4	6.9	7.3	7.7	7.8	8	8.1	
M				39.5	51.1	64	78.5	84.5	94	102.5	
E				2	2.3	2.7	3.1	3.3	3.6	3.9	
%				58.1	59.6	60.4	60.5	60.4	60	59.5	
45 (17) C			5100	6850	8900	11250	13850	15000	16800	18300	
P			2650	3040	3380	3660	3880	3950	4040	4090	
A			5.8	6.3	6.7	7.1	7.3	7.4	7.6	7.6	
M			31.4	41.8	53.6	66.5	81.5	87.5	97.5	106	
E			1.9	2.3	2.6	3.1	3.6	3.8	4.2	4.5	
%			56.5	58.5	59.8	60.4	60.1	59.8	59.1	58.2	
40 (15) C			5650	7550	9650	12100	14850	16000	17900	19600	
P			2610	2940	3220	3450	3620	3670	3730	3760	
A			5.7	6.1	6.5	6.8	7	7.1	7.1	7.2	
M			33.6	44.1	56	69	84	90.5	100	109	
E			2.2	2.6	3	3.5	4.1	4.4	4.8	5.2	
%			56.8	58.7	59.7	59.8	59	58.4	57.1	55.7	
35 (14) C		4550	6250	8200	10450	13000	15800	17100	19000	20800	
P		2220	2540	2810	3040	3220	3350	3390	3430	3440	
A		5.3	5.7	6	6.3	6.5	6.6	6.7	6.7	6.7	
M		26.5	35.7	46.2	58.2	71.5	86.5	93	103	111.5	
E		2.1	2.5	2.9	3.4	4	4.7	5	5.6	6	
%		54.6	57	58.5	59	58.5	56.8	55.8	53.8	51.7	
30 (12) C	4200	5100	6850	8850	11200	13850	16900	18100	20200	22000	
P	2000	2180	2440	2670	2860	3000	3090	3120	3140	3140	
A	5.1	5.3	5.5	5.8	6	6.2	6.3	6.3	6.4	6.3	
M	23.6	28.5	37.7	48.4	60.4	74	89	95.5	105.5	114.5	
E	2.1	2.3	2.8	3.3	3.9	4.6	5.5	5.8	6.4	7	
%	53.4	55.1	57	57.9	57.7	56.3	53.4	51.7	48.7	45.6	

Nominal Performance Values (±5%) based on 72 hours run-in. Subject to change without notice. Current @ 380 V

**C:Capacity(Watts), P:Power(W), A:Current(Amps), M:Mass Flow(g/s), E:COP(W/W), %:Isentropic Efficiency(%)**