

RATING CONDITIONS

11.1 K Superheat
 8.3 K Subcooling
 35 C Ambient Air Over

50 Hz Operation

AIR CONDITIONING

ZR190KCE-TFD

HFC-407C - Dew Pt
 COPELAND SCROLL®
 TFD 380/420-3-50

Evaporating Temperature C (Sat Dew Pt Pressure, bar)

		-20(2.2)	-15(2.6)	-10(3.2)	-5(3.9)	0(4.6)	5(5.5)	7(5.8)	10(6.4)	12.5(7)	
65 (28)	C						33000	36100	41000	45400	
	P						17350	17350	17400	17400	
	A						31.1	31.1	31.15	31.2	
	M						236	256	288	315	
	E						1.9	2.1	2.4	2.6	
	%						58.1	60.3	63.2	65.3	
	60 (25)	C					29200	36500	39800	44900	49500
		P					15450	15500	15500	15500	15500
		A					28.6	28.7	28.75	28.75	28.8
		M					199	245	265	296	324
E						1.9	2.4	2.6	2.9	3.2	
%					57.2	62.8	64.7	67.2	68.8		
55 (22)	C				25400	32100	39800	43200	48600	53400	
	P				13750	13750	13800	13800	13850	13850	
	A				26.5	26.6	26.65	26.65	26.7	26.7	
	M				167	207	252	272	303	330	
	E				1.9	2.3	2.9	3.1	3.5	3.9	
%				55.8	61.8	66.7	68.3	70.2	71.3		
50 (20)	C			21700	27900	34900	42900	46400	52000	57000	
	P			12200	12250	12300	12300	12350	12400	12450	
	A			24.7	24.8	24.85	24.9	24.9	24.95	25	
	M			137.5	173	213	258	277	308	335	
	E			1.8	2.3	2.8	3.5	3.8	4.2	4.6	
%			53.7	60.3	65.7	69.7	70.8	71.8	72.1		
45 (18)	C		18250	23800	30100	37400	45700	49300	55100	60300	
	P		10800	10900	10950	10950	11050	11050	11150	11200	
	A		23.2	23.25	23.35	23.35	23.4	23.45	23.5	23.55	
	M		111.5	143	178	217	261	281	311	338	
	E		1.7	2.2	2.8	3.4	4.1	4.5	5	5.4	
%		51.1	58.2	64	68.5	71.1	71.6	71.6	70.8		
40 (15)	C	15000	20000	25700	32200	39600	48100	51900	57900	63200	
	P	9570	9670	9730	9770	9830	9920	9980	10100	10200	
	A	21.9	22	22.05	22.1	22.15	22.2	22.25	22.35	22.45	
	M	89	116.5	147	181	220	263	282	312	339	
	E	1.6	2.1	2.6	3.3	4	4.8	5.2	5.7	6.2	
%	47.9	55.4	61.7	66.6	69.7	70.6	70.3	68.9	67		
35 (13)	C	16550	21600	27300	33900	41600	50300	54200	60300	65900	
	P	8570	8650	8700	8760	8850	9000	9090	9250	9420	
	A	21	21.05	21.05	21.1	21.2	21.3	21.4	21.55	21.65	
	M	93.5	120	149.5	183	221	264	283	312	339	
	E	1.9	2.5	3.1	3.9	4.7	5.6	6	6.5	7	
%	52.2	58.8	64.1	67.6	69	67.8	66.4	63.5	60.2		
30 (12)	C	17850	22900	28700	35400	43200	52200	56100	62500	68100	
	P	7670	7740	7800	7890	8030	8260	8380	8600	8820	
	A	20.2	20.25	20.3	20.35	20.45	20.65	20.8	21	21.2	
	M	96.5	122	151	184	221	263	281	311	337	
	E	2.3	3	3.7	4.5	5.4	6.3	6.7	7.3	7.7	
%	55.4	61	64.9	66.7	65.9	62.2	59.8	55.2	50.5		
27 (11)	C	18500	23500	29400	36200	44000	53100	57100	63600	69300	
	P	7170	7240	7320	7430	7610	7890	8040	8300	8550	
	A	19.8	19.85	19.9	20	20.15	20.4	20.55	20.8	21.05	
	M	98	122.5	151	183	220	262	280	309	335	
	E	2.6	3.3	4	4.9	5.8	6.7	7.1	7.7	8.1	
%	56.9	61.6	64.5	65.1	62.8	57.4	54.4	48.8	43.2		

Nominal Performance Values (±5%) based on 72 hours run-in. Subject to change without notice. Current @ 400 V

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