

RATING CONDITIONS

18.3 C Return Gas
Actual Subcooling
35 C Ambient Air Over

50 Hz Operation

LOW TEMPERATURE

HFCs Require Use of Polyol Ester Lubricant Approved
on Form 93-11
WITH ECONOMIZER

ZF13KVE-TFD

HFC-404A
COPELAND SCROLL®
TFD 380/420-3-50

Evaporating Temperature C (Sat Dew Pt Pressure, bar)

		-40(1.3)	-37(1.5)	-37(1.5)	-36(1.6)	-34(1.7)	-32(1.9)	-29(2.1)	-26(2.4)	-18(3.3)
Condensing Temperature C (Sat Dew Pt Pressure, bar)	60 (29) C									6750
	P									4610
	A									7.9
	M									40.3
	E									1.5
	L									14.8
	53 (25) C						4300	4800	5350	7100
	P						3760	3780	3810	3910
	A						6.7	6.7	6.7	6.9
	M						22.6	25.8	29.4	41.5
E						1.1	1.3	1.4	1.8	
L						-0.3	2.5	5.2	11.9	
46 (21) C		3700	3700	3850	4150	4500	5000	5600	7450	
P		3100	3100	3110	3120	3140	3180	3220	3340	
A		5.8	5.8	5.8	5.8	5.9	5.9	6	6.1	
M		18.5	18.5	19.4	21.2	23.2	26.5	30.2	42.4	
E		1.2	1.2	1.2	1.3	1.4	1.6	1.7	2.2	
L		-7.1	-7.1	-6.1	-4.2	-2.4	0.3	2.9	9.3	
39 (18) C	3350	3800	3800	3950	4300	4650	5200	5800	7700	
P	2580	2610	2610	2620	2640	2670	2710	2760	2890	
A	5.1	5.2	5.2	5.2	5.2	5.3	5.3	5.4	5.6	
M	16.2	18.7	18.7	19.6	21.6	23.6	27	30.7	43.2	
E	1.3	1.5	1.5	1.5	1.6	1.7	1.9	2.1	2.7	
L	-11.7	-8.9	-8.9	-7.9	-6.1	-4.3	-1.8	0.7	6.9	
32 (15) C	3400	3900	3900	4050	4400	4750	5350	6000	7950	
P	2200	2230	2230	2240	2270	2300	2350	2390	2520	
A	4.7	4.7	4.7	4.8	4.8	4.8	4.9	4.9	5.1	
M	16.3	18.9	18.9	19.9	21.8	23.9	27.4	31.2	43.7	
E	1.6	1.8	1.8	1.8	1.9	2.1	2.3	2.5	3.1	
L	-13.3	-10.6	-10.6	-9.7	-8	-6.3	-3.8	-1.4	4.6	
25 (12) C	3500	4000	4000	4150	4500	4900	5500	6150	8150	
P	1900	1940	1940	1950	1980	2000	2050	2090	2200	
A	4.4	4.4	4.4	4.4	4.5	4.5	4.6	4.6	4.7	
M	16.4	19.1	19.1	20.1	22.1	24.2	27.7	31.6	44.1	
E	1.8	2.1	2.1	2.1	2.3	2.4	2.7	2.9	3.7	
L	-15	-12.4	-12.4	-11.5	-9.9	-8.3	-5.9	-3.5	2.4	
18 (10) C	3550	4100	4100	4250	4650	5050	5650	6300	8400	
P	1660	1690	1690	1700	1730	1750	1790	1820	1890	
A	4.1	4.2	4.2	4.2	4.2	4.2	4.3	4.3	4.4	
M	16.6	19.4	19.4	20.4	22.4	24.6	28.1	32	44.5	
E	2.1	2.4	2.4	2.5	2.7	2.9	3.2	3.5	4.4	
L	-16.9	-14.4	-14.4	-13.6	-12	-10.4	-8.1	-5.8		
11 (8) C	3650	4200	4200	4400	4800	5200	5850	6500	8600	
P	1450	1470	1470	1470	1490	1500	1530	1550	1570	
A	3.9	3.9	3.9	4	4	4	4	4	4	
M	16.9	19.7	19.7	20.7	22.8	25	28.5	32.4	44.9	
E	2.5	2.9	2.9	3	3.2	3.5	3.8	4.2	5.5	
L	-19	-16.7	-16.7	-15.9	-14.3	-12.8	-10.5	-8.3	-2.5	
4 (7) C	3850	4400	4400	4600	5000	5400	6050	6750	8900	
P	1220	1220	1220	1230	1230	1230	1240	1230	1200	
A	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.6	
M	17.4	20.3	20.3	21.3	23.4	25.5	29.1	32.9	45.4	
E	3.2	3.6	3.6	3.8	4.1	4.4	4.9	5.5	7.4	
L	-21.6	-19.3	-19.3	-18.5	-17	-15.5	-13.3	-11.1	-5.3	

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), L:Liquid Temp (C)