

**RATING CONDITIONS**

11.1 K Superheat  
 8.3 K Subcooling  
 35 C Ambient Air Over

50 Hz Operation

# AIR CONDITIONING

**ZP120KCE-TFD**

HFC-410A  
 COPELAND SCROLL®  
 TFD 380/420-3-50

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

		-20(4)	-15(4.8)	-10(5.7)	-5(6.8)	0(8)	5(9.3)	7(9.9)	10(10.8)	12(11.5)
<b>Condensing Temperature C (Sat Dew Pt Pressure, bar)</b>	65 (43) C						21800	23700	26600	28600
	P						11850	11800	11750	11700
	A						20.7	20.6	20.5	20.45
	M						162	175	194	208
	E						1.8	2	2.3	2.5
	%						61.5	63.6	66.4	68.1
	60 (38) C					19950	24400	26300	29400	31600
	P					10600	10500	10450	10400	10350
	A					18.75	18.6	18.55	18.45	18.4
	M					138.5	167	180	200	214
E					1.9	2.3	2.5	2.8	3	
%					61.3	66.7	68.5	70.9	72.2	
55 (34) C				17950	22100	26800	28900	32100	34400	
P				9430	9340	9260	9240	9200	9190	
A				17	16.9	16.8	16.75	16.7	16.7	
M				117.5	143.5	172	184	204	218	
E				1.9	2.4	2.9	3.1	3.5	3.8	
%				60.7	66.5	71.2	72.7	74.3	75.1	
50 (31) C			15850	19750	24100	29100	31200	34600	37000	
P			8390	8320	8260	8210	8190	8180	8180	
A			15.5	15.4	15.35	15.25	15.25	15.25	15.25	
M			99	122	147.5	176	188	207	221	
E			1.9	2.4	2.9	3.5	3.8	4.2	4.5	
%			59.8	66	71.1	74.7	75.6	76.3	76.4	
45 (27) C		13750	17350	21400	26000	31200	33400	36900	39400	
P		7450	7410	7360	7320	7290	7290	7300	7320	
A		14.2	14.15	14.05	14	14	14	14	14	
M		82.5	103	125.5	151	178	190	209	223	
E		1.9	2.3	2.9	3.5	4.3	4.6	5	5.4	
%		58.3	65	70.5	74.6	76.7	76.9	76.5	75.7	
40 (24) C	11750	15050	18800	23000	27800	33100	35400	39000	41500	
P	6590	6580	6560	6520	6500	6500	6510	6550	6580	
A	13	13	12.95	12.9	12.9	12.9	12.9	12.95	12.95	
M	68	86	106	128	153	180	192	211	224	
E	1.8	2.3	2.9	3.5	4.3	5.1	5.4	6	6.3	
%	56.4	63.6	69.6	74.1	76.7	76.9	76.3	74.4	72.6	
35 (21) C	12850	16300	20100	24500	29400	34800	37100	40800	43400	
P	5830	5830	5800	5790	5780	5820	5840	5900	5950	
A	12	12	11.95	11.95	11.95	12	12	12.05	12.1	
M	71	89	108.5	130	154	181	193	211	224	
E	2.2	2.8	3.5	4.2	5.1	6	6.4	6.9	7.3	
%	61.6	68.1	73.1	76.2	76.9	74.9	73.2	69.6	66.6	
30 (19) C	14000	17450	21400	25800	30800	36300	38700	42500	45100	
P	5150	5150	5140	5130	5150	5210	5250	5330	5400	
A	11.15	11.15	11.15	11.15	11.15	11.2	11.25	11.3	11.35	
M	73.6	91	110.5	131.5	155	181	192	210	222	
E	2.7	3.4	4.2	5	6	7	7.4	8	8.4	
%	66.4	72	75.5	76.8	75.2	70.4	67.5	62.1	57.8	

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(%)**