

Rating Conditions

18.3 °C Return Gas
 0 K Subcooling
 35 °C Ambient Air Over
 50 Hz Operation

MEDIUM TEMPERATURE

Blue Area Restrictions: 11°C Max
 Superheat

ZB29KQE-TFD

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

Condensing Temperature °C (Sat. Dew Pt. Pressure, bar) Evaporating Temperature °C (Sat. Dew Pt. Pressure, bar)

	-23.0 (2.7)	-20.0 (3)	-15.0 (3.6)	-10.0 (4.3)	-5.0 (5.1)	0.0 (6)	5.0 (7)	7.0 (7.5)
60.0 (28.7) C P A M E %					5,680	6,810	8,120	8,700
					4,710	4,680	4,630	4,620
					7.8	7.8	7.7	7.7
					64	78	95	103
					1.2	1.5	1.8	1.9
					53.1	57.3	61.2	62.7
55.0 (25.7) C P A M E %				5,400	6,500	7,780	9,240	9,890
				4,210	4,190	4,160	4,120	4,110
				7.2	7.1	7.1	7.1	7.0
				54	66	80	97	105
				1.3	1.6	1.9	2.2	2.4
			53.2	57.5	61.3	64.7	65.9	
50.0 (23) C P A M E %			5,000	6,060	7,290	8,710	10,350	11,050
			3,750	3,740	3,730	3,700	3,670	3,650
			6.6	6.6	6.6	6.5	6.5	6.5
			45	55	67	82	99	106
			1.3	1.6	2.0	2.4	2.8	3.0
		53.2	57.6	61.6	65.1	67.7	68.5	
45.0 (20.4) C P A M E %	3,970	4,510	5,530	6,700	8,050	9,600	11,400	12,150
	3,330	3,340	3,330	3,330	3,310	3,290	3,260	3,250
	6.0	6.1	6.1	6.1	6.0	6.0	6.0	6.0
	33	37	46	56	69	83	100	108
	1.2	1.4	1.7	2.0	2.4	2.9	3.5	3.7
49.5	52.6	57.4	61.7	65.3	68.1	69.9	70.2	
40.0 (18.1) C P A M E %	4,340	4,930	6,030	7,310	8,770	10,450	12,400	13,250
	2,960	2,960	2,960	2,960	2,950	2,930	2,910	2,900
	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6
	33	38	47	57	70	84	101	109
	1.5	1.7	2.0	2.5	3.0	3.6	4.3	4.6
53.6	56.6	61.2	65.2	68.3	70.2	70.8	70.5	
35.0 (16.1) C P A M E %	4,700	5,330	6,510	7,880	9,470	11,300	13,350	14,250
	2,630	2,640	2,640	2,630	2,620	2,610	2,590	2,580
	5.2	5.2	5.3	5.3	5.2	5.2	5.2	5.2
	34	39	48	58	71	85	102	110
	1.8	2.0	2.5	3.0	3.6	4.3	5.2	5.5
57.2	60.2	64.5	67.9	70.2	71.0	70.0	69.0	
25.0 (12.4) C P A M E %	5,330	6,040	7,390	8,950	10,750	12,850	15,200	
	2,090	2,090	2,090	2,090	2,080	2,080	2,070	
	4.7	4.7	4.7	4.7	4.7	4.7	4.7	
	35	39	48	59	72	87	104	
	2.6	2.9	3.5	4.3	5.2	6.2	7.3	
62.9	65.3	68.3	69.9	69.6	66.9	61.4		
15.0 (9.4) C P A M E %	5,890	6,670	8,160	9,910	11,900			
	1,655	1,655	1,660	1,660	1,660			
	4.3	4.3	4.3	4.3	4.3			
	35	40	49	60	72			
	3.6	4.0	4.9	6.0	7.2			
65.1	66.4	67.0	65.3	60.6				
10.0 (8.2) C P A M E %	6,140	6,960	8,510	10,350				
	1,475	1,475	1,480	1,480				
	4.1	4.1	4.1	4.1				
	35	40	49	60				
	4.2	4.7	5.8	7.0				
64.4	64.8	63.7	59.5					

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

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