

Rating Conditions

11.1 K Superheat
8.3 K Subcooling
35 °C Ambient Air Over

50 Hz Operation

AIR CONDITIONING

ZR57K3E-TFD

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

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

		-20.0(2.2)	-15.0(2.6)	-10.0(3.2)	-5.0(3.9)	0.0(4.6)	5.0(5.5)	7.0(5.8)	10.0(6.4)	12.0(6.9)
65.0 (28.4)	C						10,000	10,900	12,350	13,350
	P						5,500	5,450	5,450	5,400
	A						9.3	9.2	9.2	9.1
	M						71.5	77.5	86.5	93
	E %						1.8	2.0	2.3	2.5
60.0 (25.3)	C					8,850	11,000	11,900	13,450	14,500
	P					4,880	4,830	4,810	4,780	4,750
	A					8.4	8.3	8.3	8.2	8.2
	M					60.4	73.5	79.5	88.5	95
	E %					1.8	2.3	2.5	2.8	3.1
55.0 (22.4)	C				7,700	9,650	11,900	12,900	14,500	15,600
	P				4,320	4,290	4,250	4,230	4,200	4,180
	A				7.6	7.5	7.5	7.4	7.4	7.3
	M				50.5	62.2	75.5	81	90.5	97
	E %				1.8	2.3	2.8	3.1	3.5	3.7
50.0 (19.8)	C			6,600	8,400	10,400	12,750	13,800	15,500	16,700
	P			3,830	3,800	3,780	3,740	3,730	3,700	3,680
	A			6.9	6.8	6.8	6.7	6.7	6.6	6.6
	M			41.7	52	63.5	76.5	82.5	91.5	98
	E %			1.7	2.2	2.8	3.4	3.7	4.2	4.5
45.0 (17.5)	C		5,550	7,150	9,000	11,150	13,600	14,700	16,400	17,700
	P		3,390	3,380	3,360	3,330	3,300	3,290	3,260	3,250
	A		6.2	6.2	6.2	6.2	6.1	6.1	6.0	6.0
	M		34	43	53.2	64.5	78	83.5	93	99.5
	E %		1.6	2.1	2.7	3.3	4.1	4.5	5.0	5.5
40.0 (15.4)	C	4,600	6,000	7,700	9,600	11,800	14,400	15,500	17,400	18,700
	P	3,000	2,990	2,980	2,960	2,940	2,910	2,900	2,880	2,860
	A	5.7	5.7	5.7	5.7	5.6	5.6	5.5	5.5	5.5
	M	27.2	35.1	44	54.1	65.5	78.5	84.5	93.5	100
	E %	1.5	2.0	2.6	3.2	4.0	4.9	5.4	6.0	6.5
35.0 (13.5)	C	4,950	6,450	8,150	10,150	12,450	15,100	16,300	18,200	19,600
	P	2,650	2,640	2,630	2,610	2,590	2,560	2,550	2,530	2,520
	A	5.2	5.2	5.2	5.2	5.2	5.1	5.1	5.1	5.1
	M	28.2	35.9	44.7	54.7	66	79.5	85	94.5	101
	E %	1.9	2.4	3.1	3.9	4.8	5.9	6.4	7.2	7.8
30.0 (11.7)	C	5,300	6,800	8,600	10,650	13,050	15,800	17,100	19,100	20,500
	P	2,340	2,330	2,310	2,290	2,270	2,240	2,230	2,210	2,200
	A	4.8	4.8	4.8	4.8	4.8	4.7	4.7	4.7	4.7
	M	28.8	36.5	45.2	55.2	66.5	80	85.5	95	101.5
	E %	2.3	2.9	3.7	4.6	5.7	7.1	7.7	8.6	9.3
27.0 (10.8)	C	5,500	7,050	8,800	10,900	13,400	16,200	17,500	19,600	21,000
	P	2,160	2,150	2,140	2,110	2,090	2,060	2,050	2,030	2,020
	A	4.6	4.6	4.6	4.6	4.6	4.5	4.5	4.5	4.5
	M	29.1	36.7	45.4	55.3	67	80	86	95	102
	E %	2.6	3.3	4.1	5.2	6.4	7.9	8.6	9.7	10.4
27.0 (10.8)	C	5,500	7,050	8,800	10,900	13,400	16,200	17,500	19,600	21,000
	P	2,160	2,150	2,140	2,110	2,090	2,060	2,050	2,030	2,020
	A	4.6	4.6	4.6	4.6	4.6	4.5	4.5	4.5	4.5
	M	29.1	36.7	45.4	55.3	67	80	86	95	102
	E %	2.6	3.3	4.1	5.2	6.4	7.9	8.6	9.7	10.4

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 @ 380 V