

**ZR125KCE-TFD**

HFC, R-407C, 50 Hz, 3 - Phase, 380/420 V [. Also Available with Variable Frequency Drives](#)

**Air Conditioning**

**Production Status:** Available for sale to all U.S. customers. Please check with your local Emerson Climate Technologies Representative for international availability.

Performance			Mechanical	
Evaporator Temp. (°C)	7	2	Displacement (cm <sup>3</sup> /Rev):	167.15
Condensing Temp. (°C)	54	49	Displacement (m <sup>3</sup> /Hr):	
Return Gas Temp. (°C)	18	13	Overall Length (mm):	263.65
Liquid Temp. (°C)	46	41	Overall Width (mm):	285.24
Capacity (Watts)	30186	26142	Overall Height (mm):	533.40
Power (W):	8950	7830	Mounting Length (mm):	190.50
Current (Amps):	16	14.5	Mounting Width (mm):	190.50
EER(BTU/Wh):	19.54	19.37	Mounting Height (mm):	552.45
Mass Flow (lbs/hr):	189.00	156.87	Suction Size (mm),Type:	330.20 / 203.20 Stub
Sound Data @			Discharge Size (mm),Type:	177.80 / 203.20 Stub
Sound Power (dBA):	74 Avg	79 Max	Initial Oil Charge (ml):	3253.14
Vibration mils(peak-peak):	3.0 Avg	4.5 Max	Oil Recharge (ml):	3134.84
Record Date:	2017-03-23		Net Weight (kg):	61.24
			Internal Free Volume (cm <sup>3</sup> ):	13257.08
			Horse Power:	10.0
			*Overall compressor height on Copeland Brand Product's specified mounting grommets.	

Electrical		Capacitors					
		Type	Part No	Low MFD	High MFD	Volts	User Description
LRA High* (Amps):	118.0						
LRA Low*(Amps):	110.0	No data available in table					
LRA Half Winding (Amps):							
MCC (Amps):	26.9						
Max Operating Current (Amps):	19.6						
RLA, MCC/1.4(use for contactor selection)(Amps):	19.2						
RLA, MCC/1.56(use for breaker & wire size selection)(Amps):	17.2						
RPM:	2900						
Box IP :	21						
UL File No:	SA-2337						
UL File Date:	1996-09-27						

\*Low and High refer to the low and high nominal voltage ranges for which the motor is approved.

### Rating Conditions

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

50 Hz Operation

### AIR CONDITIONING

### ZR125KCE-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)

	-29.0 (1.5)	-23.0 (1.9)	-18.0 (2.3)	-12.0 (3)	-7.0 (3.6)	0.0 (4.6)	5.0 (5.5)	10.0 (6.4)	13.0 (7.1)	16.0 (7.8)	18.0 (8.3)	21.0 (9.1)
65.0 (28.4) C P A M E %								28,500	32,100	36,000	38,800	43,200
								11,550	11,550	11,600	11,600	11,600
								19.6	19.6	19.6	19.6	19.7
								200	223	247	264	291
								2.5	2.8	3.1	3.4	3.7
							66.2	68.7	70.7	71.8	73.0	
60.0 (25.3) C P A M E %							25,300	31,000	34,800	38,900	41,800	46,400
							10,200	10,250	10,250	10,250	10,300	10,300
							17.7	17.8	17.8	17.8	17.8	17.9
							170	204	227	251	268	295
							2.5	3.0	3.4	3.8	4.1	4.5
						66.1	70.4	72.4	73.8	74.4	74.8	
55.0 (22.5) C P A M E %						22,300	27,400	33,300	37,300	41,500	44,600	49,400
						9,040	9,070	9,080	9,100	9,130	9,150	9,190
						16.1	16.2	16.2	16.2	16.3	16.3	16.3
						144	174	208	230	254	271	298
						2.5	3.0	3.7	4.1	4.6	4.9	5.4
					65.5	70.2	73.6	74.9	75.5	75.6	74.9	
49.0 (19.4) C P A M E %					18,000	24,400	29,800	36,000	40,100	44,600	47,700	52,800
					7,800	7,850	7,870	7,900	7,930	7,970	8,010	8,080
					14.5	14.6	14.6	14.6	14.7	14.7	14.8	14.9
					111	147	177	211	233	257	274	301
					2.3	3.1	3.8	4.6	5.1	5.6	6.0	6.5
				62.9	70.1	73.7	75.6	75.8	75.1	74.2	71.9	
43.0 (16.7) C P A M E %				15,650	19,650	26,300	31,900	38,400	42,700	47,300	50,600	55,900
				6,750	6,790	6,830	6,860	6,920	6,970	7,040	7,100	7,200
				13.2	13.2	13.3	13.3	13.4	13.5	13.5	13.6	13.7
				93	114	150	179	213	235	258	275	302
				2.3	2.9	3.9	4.7	5.5	6.1	6.7	7.1	7.8
			62.0	67.4	73.0	75.1	74.9	73.6	71.2	69.0	64.7	
38.0 (14.6) C P A M E %			12,600	16,750	20,800	27,700	33,500	40,200	44,600	49,400	52,900	58,300
			5,960	6,030	6,060	6,110	6,160	6,250	6,320	6,410	6,490	6,620
			12.3	12.3	12.4	12.4	12.5	12.6	12.7	12.8	12.9	13.0
			73	95	116	151	180	213	235	259	275	302
			2.1	2.8	3.4	4.5	5.4	6.4	7.1	7.7	8.2	8.8
		58.5	65.4	69.9	73.8	74.0	71.6	68.7	64.6	61.2	55.1	
27.0 (10.8) C P A M E %		11,400	14,400	18,750	23,100	30,300	36,500	43,600				
		4,610	4,670	4,720	4,770	4,870	4,990	5,170				
		10.9	10.9	11.0	11.0	11.1	11.2	11.4				
		61	76	97	117	151	180	212				
		2.5	3.1	4.0	4.8	6.2	7.3	8.4				
	59.7	64.5	68.6	70.0	67.8	62.6	53.8					
21.0 (9.1) C P A M E %		12,150	15,200	19,600	24,000	31,400	37,800					
		4,020	4,070	4,140	4,210	4,370	4,550					
		10.3	10.4	10.4	10.5	10.7	10.8					
		62	77	97	117	150	178					
		3.0	3.7	4.7	5.7	7.2	8.3					
	62.2	65.6	67.3	66.1	59.3	50.4						
10.0 (6.4) C P A M E %		13,150	16,150	20,600	25,100							
		3,060	3,130	3,250	3,400							
		9.6	9.7	9.8	9.9							
		62	76	95	114							
		4.3	5.2	6.3	7.4							
	63.5	62.5	57.7	50.0								

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