

ZP137KCE-TFD

HFC, R-410A, 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 ³ /Rev):	127.16
Condensing Temp. (°C)	54	49	Displacement (m ³ /Hr):	
Return Gas Temp. (°C)	18	13	Overall Length (mm):	263.65
Liquid Temp. (°C)	46	41	Overall Width (mm):	285.24
Capacity (Watts)	32531	29014	Overall Height (mm):	533.40
Power (W):	10200	8980	Mounting Length (mm):	190.50
Current (Amps):	18.3	16.55	Mounting Width (mm):	190.50
EER(BTU/Wh):	18.52	18.69	Mounting Height (mm):	552.45
Mass Flow (lbs/hr):	206.64	174.51	Suction Size (mm),Type:	330.20 / 203.20 Stub
Sound Data @			Discharge Size (mm),Type:	177.80 / 203.20 Stub
Sound Power (dBA):	77 Avg	82 Max	Initial Oil Charge (ml):	3253.14
Vibration mils(peak-peak):	3.0 Avg	4.5 Max	Oil Recharge (ml):	3134.84
Record Date:	2017-04-24		Net Weight (kg):	62.14
			Internal Free Volume (cm ³):	13257.08
			Horse Power:	
			*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	No data available in table					
LRA Low*(Amps):	110.0						
LRA Half Winding (Amps):							
MCC (Amps):	29						
Max Operating Current (Amps):	25.0						
RLA, MCC/1.4(use for contactor selection)(Amps):	20.7						
RLA, MCC/1.56(use for breaker & wire size selection)(Amps):	18.6						
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

ZP137KCE-TFD

HFC-410A

COPELAND SCROLL®

TFD 380/420-3-50

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

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

	-28.9(2.8)	-23.3(3.5)	-17.8(4.3)	-12.2(5.3)	-6.7(6.4)	-1.1(7.7)	4.4(9.2)	10.0(10.8)	15.6(12.8)	21.1(14.9)	23.9(16)	26.7(17.3)
65.6 (43.3) C P A M E %								23,300 13,150 23.0 175 1.8 61.5	29,300 13,150 22.9 217 2.2 66.9	36,000 13,200 22.8 263 2.7 70.6		
60.0 (38.3) C P A M E %						21,100 11,600 20.5 147 1.8 61.1	26,600 11,550 20.5 182 2.3 66.9	32,800 11,600 20.4 222 2.8 70.9	39,900 11,600 20.4 267 3.4 73.1	47,800 11,650 20.3 317 4.1 73.4	52,400 11,700 20.3 346 4.5 72.8	57,200 11,750 20.2 376 4.9 71.5
54.4 (33.9) C P A M E %					18,650 10,200 18.4 122 1.8 60.2	23,800 10,200 18.4 154 2.3 66.6	29,400 10,200 18.3 187 2.9 71.1	36,000 10,200 18.3 226 3.5 73.7	43,500 10,200 18.3 270 4.3 74.4	52,000 10,300 18.2 320 5.1 72.8	56,800 10,350 18.2 349 5.5 71.0	62,000 10,400 18.2 379 6.0 68.5
48.9 (29.9) C P A M E %				16,200 8,990 16.6 101 1.8 58.6	20,900 9,000 16.6 128 2.3 65.7	26,100 8,980 16.6 158 2.9 70.8	32,000 8,980 16.5 191 3.6 73.9	38,900 8,990 16.5 229 4.3 75.1	46,900 9,040 16.5 273 5.2 73.9	56,000 9,140 16.5 324 6.1 70.0	61,100 9,210 16.5 352 6.6 66.9	66,700 9,300 16.5 383 7.2 62.9
43.3 (26.2) C P A M E %			13,700 7,910 15.0 81 1.7 56.2	18,100 7,930 15.0 106 2.3 64.3	22,800 7,920 15.0 132 2.9 69.9	28,300 7,910 15.0 161 3.6 73.6	34,400 7,920 15.0 193 4.4 75.2	41,700 7,950 15.0 232 5.3 74.5	50,200 8,020 15.0 277 6.3 71.0	60,000 8,150 15.1 328 7.4 64.3	65,600 8,240 15.1 357 8.0 59.6	
37.8 (22.9) C P A M E %		11,350 6,960 13.6 65 1.6 53.1	15,300 6,990 13.6 86 2.2 62.0	19,700 7,000 13.7 109 2.8 68.4	24,500 7,000 13.7 134 3.5 72.6	30,200 7,000 13.7 163 4.3 74.8	36,700 7,020 13.7 196 5.2 74.6	44,500 7,070 13.8 235 6.3 71.7	53,600 7,170 13.8 280 7.5 65.3			
26.7 (17.3) C P A M E %	10,500 5,330 11.5 55 2.0 56.6	14,050 5,390 11.5 72 2.6 64.3	17,900 5,420 11.6 91 3.3 69.5	22,400 5,430 11.6 112 4.1 72.6	27,700 5,450 11.6 137 5.1 73.4	34,000 5,490 11.7 166 6.2 71.4	41,300 5,560 11.8 200 7.4 66.1	50,200 5,680 11.9 241 8.8 56.6				
21.1 (14.9) C P A M E %	11,650 4,640 10.7 58 2.5 62.9	15,150 4,700 10.7 74 3.2 68.3	19,050 4,730 10.7 92 4.0 71.5	23,700 4,760 10.8 114 5.0 72.6	29,200 4,800 10.8 139 6.1 71.0	35,900 4,870 10.9 169 7.4 66.0	43,800 4,980 11.0 204 8.8 56.9					
10.0 (10.8) C P A M E %	13,700 3,370 9.4 63 4.1 74.6	17,200 3,450 9.4 78 5.0 74.8	21,300 3,520 9.4 96 6.1 72.8	26,500 3,600 9.5 117 7.4 67.7	32,700 3,710 9.6 144 8.8 58.7							

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