

**ZR61KCE-TFD**

HCFC, R-22, 50 Hz, 3 - Phase, V

**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	7	Displacement (cm <sup>3</sup> /Rev):	82.59
Condensing Temp. (°C)	54	38	Displacement (m <sup>3</sup> /Hr):	
Return Gas Temp. (°C)	18	18	Overall Length (mm):	246.13
Liquid Temp. (°C)	46	29	Overall Width (mm):	246.13
Capacity (Watts)	15122	17643	Overall Height (mm):	450.85
Power (W):	4860	3410	Mounting Length (mm):	190.50
Current (Amps):	8.5	6.7	Mounting Width (mm):	190.50
EER(BTU/Wh):	18.01	30.07	Mounting Height (mm):	457.20
Mass Flow (lbs/hr):	95.51	97.90	Suction Size (mm),Type:	177.80 / 203.20 Stub
Sound Data @			Discharge Size (mm),Type:	25.40 / 50.80 Stub
Sound Power (dBA):	71 Avg	76 Max	Initial Oil Charge (ml):	1951.88
Vibration mils(peak-peak):	2.0 Avg	3.0 Max	Oil Recharge (ml):	1833.59
Record Date:	2021-03-02		Net Weight (kg):	36.06
			Internal Free Volume (cm <sup>3</sup> ):	4457.26
			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):	65.5						
LRA Low*(Amps):	58.6	No data available in table					
LRA Half Winding (Amps):							
MCC (Amps):	14						
Max Operating Current (Amps):	11.00						
RLA, MCC/1.4(use for contactor selection)(Amps):	10.0						
RLA, MCC/1.56(use for breaker & wire size selection)(Amps):	9.0						
RPM:	2900						
Box IP :	21						
UL File No:	SA-2337						
UL File Date:	1993-07-26						

\*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**

**ZR61KCE-TFD**

HCFC-22  
 COPELAND SCROLL®  
 -3-50

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

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

	-29.0(1.7)	-23.0(2.2)	-18.0(2.6)	-12.0(3.3)	-7.0(3.9)	0.0(5)	5.0(5.8)	10.0(6.8)	13.0(7.4)	16.0(8.1)	18.0(8.6)	21.0(9.4)
65.0 (27)	C P A M E %							14,700 5,950 10.0 102 2.5 63.1	16,300 5,930 10.0 112 2.8 64.7	17,950 5,910 9.9 122 3.0 66.0	19,100 5,890 9.9 130 3.3 66.6	20,900 5,860 9.9 141 3.6 67.0
60.0 (24.3)	C P A M E %						13,100 5,440 9.3 88 2.4 61.5	15,650 5,400 9.3 103 2.9 64.6	17,300 5,380 9.2 113 3.2 65.9	19,000 5,360 9.2 124 3.6 66.6	20,200 5,340 9.2 131 3.8 66.8	22,100 5,320 9.1 142 4.2 66.7
55.0 (21.8)	C P A M E %					11,550 4,950 8.7 75 2.3 59.5	13,900 4,930 8.6 89 2.8 63.2	16,550 4,900 8.6 104 3.4 65.5	18,200 4,880 8.6 114 3.7 66.2	20,000 4,860 8.5 124 4.1 66.4	21,200 4,840 8.5 132 4.4 66.2	23,200 4,810 8.5 143 4.8 65.3
49.0 (19)	C P A M E %				9,310 4,420 8.0 58 2.1 55.7	12,350 4,390 7.9 76 2.8 61.6	14,800 4,370 7.9 90 3.4 64.4	17,550 4,340 7.9 105 4.0 65.6	19,300 4,320 7.9 115 4.5 65.5	21,100 4,290 7.8 125 4.9 64.8	22,400 4,280 7.8 132 5.2 63.9	24,400 4,250 7.8 143 5.8 62.0
43.0 (16.5)	C P A M E %			8,010 3,910 7.3 48 2.1 53.4	9,940 3,890 7.3 59 2.6 58.2	13,100 3,870 7.3 77 3.4 63.0	15,650 3,850 7.3 91 4.1 64.6	18,500 3,820 7.2 106 4.9 64.4	20,300 3,800 7.2 116 5.4 63.3	22,200 3,770 7.2 126 5.9 61.4	23,500 3,750 7.1 133 6.3 59.7	25,600 3,710 7.1 143 6.9 56.5
38.0 (14.6)	C P A M E %		6,430 3,510 6.9 38 1.8 49.5	8,450 3,500 6.8 49 2.4 55.7	10,450 3,480 6.8 60 3.0 59.9	13,700 3,460 6.8 77 4.0 63.5	16,350 3,440 6.8 91 4.8 63.9	19,250 3,400 6.7 106 5.7 62.2	21,100 3,380 6.7 116 6.2 60.0	23,000 3,350 6.7 126 6.9 57.0	24,400 3,330 6.6 133 7.3 54.5	26,500 3,290 6.6 143 8.0 49.8
27.0 (11)	C P A M E %	5,700 2,650 5.8 32 2.2 51.1	7,200 2,650 5.8 39 2.7 56.0	9,390 2,640 5.8 51 3.6 60.6	11,500 2,630 5.8 61 4.4 62.7	14,950 2,600 5.8 78 5.8 62.1	17,750 2,570 5.7 92 6.9 58.6	20,700 2,530 5.7 106 8.2 52.1				
21.0 (9.4)	C P A M E %	6,060 2,190 5.3 32 2.8 56.2	7,620 2,190 5.3 40 3.5 60.4	9,870 2,180 5.3 51 4.5 63.5	12,050 2,170 5.3 62 5.6 63.8	15,550 2,140 5.2 79 7.3 59.7	18,400 2,100 5.2 92 8.8 52.8					
10.0 (6.8)	C P A M E %	6,720 1,330 4.3 33 5.1 73.5	8,350 1,330 4.3 41 6.3 74.8	10,700 1,315 4.3 52 8.1 72.7	12,950 1,295 4.3 62 10.0 66.7							

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