

ZR47K3E-PFJ

HFC, R-407C, 50 Hz, 1 - Phase, 220/240 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 ³ /Rev):	63.25
Condensing Temp. (°C)	54	38	Displacement (m ³ /Hr):	
Return Gas Temp. (°C)	18	18	Overall Length (mm):	246.13
Liquid Temp. (°C)	46	29	Overall Width (mm):	246.13
Capacity (Watts)	10961	13276	Overall Height (mm):	430.53
Power (W):	3480	2350	Mounting Length (mm):	190.50
Current (Amps):	16.9	12.3	Mounting Width (mm):	190.50
EER(BTU/Wh):	18.18	32.79	Mounting Height (mm):	436.37
Mass Flow (lbs/hr):	68.67	70.56	Suction Size (mm),Type:	177.80 / 203.20 Stub
Sound Data @			Discharge Size (mm),Type:	25.40 / 50.80 Stub
Sound Power (dBA):	68 Avg	73 Max	Initial Oil Charge (ml):	1242.11
Vibration mils(peak-peak):	2.0 Avg	3.0 Max	Oil Recharge (ml):	1123.81
Record Date:	2005-04-15		Net Weight (kg):	31.30
			Internal Free Volume (cm ³):	3359.34
			Horse Power:	4.0

*Overall compressor height on Copeland Brand Product's specified mounting grommets.

Electrical		Capacitors					
		Type	Part No	Low MFD	High MFD	Volt s	User Description
LRA High* (Amps):	114.0						
LRA Low*(Amps):	105.0	Run Capacitor	014-0054-37	60.0	0.0	370	ALTERNATE MOTOR
LRA Half Winding (Amps):							
MCC (Amps):	27	Run Capacitor	014-0064-18	60.0	0.0	440	
Max Operating Current (Amps):	22.7	Start Capacitor	014-0064-26	60.0	0.0	370	
RLA, MCC/1.4(use for contactor selection)(Amps):	19.3						
RLA, MCC/1.56(use for breaker & wire size selection)(Amps):	17.3						
RPM:	2900						
Box IP :	21						
UL File No:							
UL File Date:	1994-06-14						

*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

ZR47K3E-PFJ

HFC-407C - Dew Pt.
COPELAND SCROLL®
PFJ 220/240-1-50

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

	-20.0 (2.1)	-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)						8,750	9,550	10,750	11,550
C						4,330	4,320	4,300	4,290
P						20.6	20.5	20.4	20.4
A						63	68	75	81
M						2.0	2.2	2.5	2.7
E						62.0	64.2	67.1	68.7
%									
60.0 (25.3)					7,550	9,350	10,150	11,350	12,200
C					3,950	3,920	3,920	3,910	3,920
P					18.9	18.8	18.8	18.8	18.8
A					52	63	68	75	80
M					1.9	2.4	2.6	2.9	3.1
E					58.3	63.7	65.4	67.5	68.6
%									
55.0 (22.5)				6,550	8,150	10,000	10,800	12,050	12,950
C				3,530	3,520	3,520	3,520	3,540	3,550
P				17.1	17.1	17.1	17.1	17.2	17.2
A				43	53	63	68	75	80
M				1.9	2.3	2.8	3.1	3.4	3.6
E				56.1	61.6	65.8	67.0	68.3	68.7
%									
50.0 (19.9)			5,650	7,100	8,800	10,650	11,500	12,800	13,700
C			3,110	3,110	3,120	3,140	3,150	3,170	3,190
P			15.4	15.4	15.4	15.5	15.5	15.6	15.7
A			36	44	54	64	68	76	81
M			1.8	2.3	2.8	3.4	3.7	4.0	4.3
E			55.1	60.7	65.2	68.1	68.7	69.0	68.8
%									
45.0 (17.5)		4,900	6,200	7,650	9,400	11,350	12,200	13,550	14,500
C		2,690	2,720	2,730	2,750	2,780	2,800	2,830	2,860
P		13.7	13.8	13.9	13.9	14.0	14.1	14.2	14.3
A		30	37	45	54	65	69	76	81
M		1.8	2.3	2.8	3.4	4.1	4.4	4.8	5.1
E		55.1	60.6	65.3	68.6	70.1	70.1	69.3	68.3
%									
40.0 (15.4)	4,200	5,300	6,650	8,150	9,950	11,950	12,850	14,300	15,300
C	2,310	2,350	2,380	2,400	2,420	2,450	2,470	2,510	2,550
P	12.2	12.4	12.5	12.5	12.6	12.7	12.8	12.9	13.1
A	25	31	38	46	55	65	70	77	82
M	1.8	2.3	2.8	3.4	4.1	4.9	5.2	5.7	6.0
E	55.5	60.7	65.4	69.1	71.2	71.2	70.4	68.5	66.6
%									
35.0 (13.5)	4,450	5,600	7,000	8,600	10,450	12,600	13,500	15,000	16,100
C	2,040	2,070	2,090	2,110	2,130	2,170	2,190	2,230	2,270
P	11.2	11.3	11.4	11.5	11.6	11.7	11.7	11.9	12.0
A	25	31	38	46	56	66	71	78	83
M	2.2	2.7	3.3	4.1	4.9	5.8	6.2	6.7	7.1
E	59.7	64.4	68.4	71.3	72.2	70.5	69.0	65.7	62.8
%									
30.0 (11.8)	4,600	5,800	7,250	8,900	10,850	13,100	14,100	15,700	16,800
C	1,840	1,860	1,870	1,880	1,900	1,940	1,960	2,000	2,030
P	10.5	10.7	10.7	10.8	10.8	10.9	10.9	11.0	11.1
A	25	31	38	46	56	66	71	78	83
M	2.5	3.1	3.9	4.7	5.7	6.8	7.2	7.9	8.3
E	60.2	64.6	68.3	70.5	70.3	66.9	64.6	59.9	56.0
%									
27.0 (10.8)	4,600	5,850	7,300	9,050	11,050	13,400	14,450	16,100	17,200
C	1,760	1,770	1,780	1,780	1,790	1,820	1,840	1,880	1,910
P	10.3	10.5	10.5	10.5	10.5	10.5	10.6	10.7	10.7
A	24	30	38	46	55	66	71	78	84
M	2.6	3.3	4.1	5.1	6.2	7.4	7.8	8.5	9.0
E	57.9	62.5	66.2	68.1	67.3	63.0	60.1	54.6	50.1
%									

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 @ 220 V