

ZF06K4E-TF5

HFC, R-404A, 60 Hz, 3 -phase, 200/230 V
Medium Temp, Liquid Injected



Production Status: This compressor and/or application of this compressor is not available to U.S. OEM customers. A field replacement is currently available through a U.S. Emerson Climate Technologies Wholesaler. Please check with your local Emerson Climate Technologies Representative for international availability.

Performance

Evaporator Temp. (°F)	20.00	0.00
Condensing Temp. (°F)	120.00	110.00
Return Gas Temp. (°F)	65	65
Liquid Temp. (°F)	120	110
Capacity (Btu/hr)	14700	10900
Power (W):	2360	1920
Current (Amps):	7.40	6.00
EER (Btu/Wh):	6.20	5.70
Mass Flow (lbs/hr):	311	207
<u>Sound Data @</u>		
Sound Power (dBA):	0 Avg	0 Max
Vibration mils(peak-peak):	0.0 Avg	0.0 Max
Record Date:	2004-04-07	

Mechanical

Displacment (in ³ /Rev):	2.08
Displacment (ft ³ /hr):	252.29
Overall Length (in):	9.50
Overall Width (in):	9.50
Overall Height (in):	15.04
Mounting Length (in):	7.50
Mounting Width (in):	7.50
Mounting Height (in):	15.27 *
Suction Size (in),Type:	3/4 Stub
Discharge Size (in),Type:	1/2 Stub
Initial Oil Charge (oz):	44
Oil Recharge (oz):	40
Net Weight (lbs):	56.00
Internal Free Volume (in ³):	251.00
Horse Power:	2.00

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

Electrical

LRA High*(Amp):	55.0
LRA Low* (Amp):	
LRA Half Winding (Amp):	
MCC (Amps):	13.0
Max Operating Current(Amp):	10.0
RLA, MCC/1.4;use for contactor selection (Amp):	9.3
RLA, MCC/1.56;use for breaker & wire size selection (Amp):	8.3
RPM:	3500
UL File No:	SA-2337
UL File Date:	28-Feb-1995

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

Capacitors

Alternate Applications

<u>Refrigerant</u>	<u>Voltage</u>	<u>Phase</u>	<u>Freq (Hz)</u>	<u>Application</u>
R-134a HFC	200/220	3	50	Medium Temp, Liquid Injected
R-134a HFC	200/220	3	50	Low Temp, Liquid Injected
R-134a HFC	200/230	3	60	Medium Temp, Liquid Injected
R-134a HFC	200/230	3	60	Low Temp, Liquid Injected
R-404A HFC	200/220	3	50	Low Temp, Liquid Injected
R-404A HFC	200/230	3	60	Low Temp, Low Condensing
R-404A HFC	200/220	3	50	Medium Temp, Liquid Injected
R-404A HFC	200/220	3	50	Low Temp, Low Condensing
R-404A HFC	200/230	3	60	Low Temp, Liquid Injected
R-507 HFC	200/220	3	50	Medium Temp, Liquid Injected

Alternate Applications

<u>Refrigerant</u>	<u>Voltage</u>	<u>Phase</u>	<u>Freq (Hz)</u>	<u>Application</u>
R-507 HFC	200/220	3	50	Low Temp, Low Condensing
R-507 HFC	200/230	3	60	Medium Temp, Liquid Injected
R-507 HFC	200/230	3	60	Low Temp, Liquid Injected
R-22 HCFC	200/220	3	50	Medium Temp, Liquid Injected
R-22 HCFC	200/220	3	50	Low Temp, Liquid Injected
R-22 HCFC	200/230	3	60	Medium Temp, Liquid Injected
R-22 HCFC	200/230	3	60	Low Temp, Liquid Injected
R-407C HFC	200/230	3	60	Low Temp, Liquid Injected
R-407A HFC	200/220	3	50	Low Temp, Liquid Injected
R-407A HFC	200/230	3	60	UL Medium Temp
R-407A HFC	200/230	3	60	UL Low Temp
R-407A HFC	200/230	3	60	Low Temp, Liquid Injected
R-407F HFC	200/220	3	50	Low Temp, Liquid Injected
R-407F HFC	200/230	3	60	Low Temp, Liquid Injected
R-448A HFO	200/220	3	50	Medium Temp, Liquid Injected
R-448A HFO	200/220	3	50	Low Temp, Liquid Injected
R-448A HFO	200/230	3	60	Medium Temp, Liquid Injected
R-448A HFO	200/230	3	60	Low Temp, Liquid Injected
R-449A HFO	200/220	3	50	Medium Temp, Liquid Injected
R-449A HFO	200/220	3	50	Low Temp, Liquid Injected
R-449A HFO	200/230	3	60	Medium Temp, Liquid Injected
R-449A HFO	200/230	3	60	Low Temp, Liquid Injected

Rating Conditions

65 °F Return Gas
 0 F Subcooling
 95 °F Ambient Air Over

60 Hz Operation

MEDIUM TEMPERATURE

**HFCs Require Use of Polyol Ester
 Lubricant Approved on Form 93-11**

ZF06K4E-TF5

HFC-404A
COPELAND SCROLL®
 TF5 200/230-3-60

Condensing Temperature °F
 (Sat. Dew Pt. Pressure, psig) Evaporating Temperature °F (Sat. Dew Pt. Pressure, psig)

	-10.0 (24)	-5.0 (28)	0.0 (33)	5.0 (38)	10.0 (43)	15.0 (49)	20.0 (55)	25.0 (62)	30.0 (69)	35.0 (77)	40.0 (85)	45.0 (94)
140.0												
(402) C			8,070	8,840	9,680	10,600	11,600	12,700	14,000	15,300	16,800	18,400
P			2,370	2,430	2,500	2,580	2,660	2,740	2,820	2,900	2,980	3,060
A			7.4	7.6	7.8	8.1	8.3	8.6	8.8	9.1	9.3	9.6
M			204	225	248	274	303	335	371	412	458	509
E			3.4	3.6	3.9	4.1	4.4	4.7	5.0	5.3	5.6	6.0
%			57.3	57.9	58.2	58.5	58.6	58.6	58.6	58.6	58.5	58.3
130.0												
(354) C	7,370	8,140	8,980	9,890	10,900	12,000	13,200	14,500	15,900	17,400	19,100	21,000
P	2,130	2,180	2,240	2,300	2,370	2,440	2,520	2,600	2,670	2,750	2,820	2,890
A	6.7	6.8	7.0	7.2	7.4	7.7	7.9	8.1	8.4	8.6	8.8	9.0
M	164	182	202	224	248	275	304	337	374	415	460	511
E	3.5	3.7	4.0	4.3	4.6	4.9	5.2	5.6	5.9	6.3	6.8	7.3
%	54.8	56.0	56.8	57.4	57.7	57.9	57.9	57.8	57.6	57.4	57.0	56.6
120.0												
(310) C	8,090	8,980	9,940	11,000	12,100	13,400	14,700	16,200	17,800	19,500	21,400	23,500
P	1,970	2,020	2,080	2,150	2,210	2,290	2,360	2,430	2,500	2,570	2,630	2,690
A	6.2	6.4	6.5	6.7	7.0	7.2	7.4	7.6	7.8	8.1	8.2	8.4
M	164	183	203	226	250	278	308	342	379	420	466	517
E	4.1	4.4	4.8	5.1	5.5	5.8	6.2	6.7	7.1	7.6	8.1	8.7
%	55.8	56.9	57.6	58.0	58.2	58.1	58.0	57.7	57.2	56.7	56.0	55.2
110.0												
(270) C	8,850	9,840	10,900	12,100	13,400	14,700	16,300	17,900	19,700	21,600	23,700	26,000
P	1,810	1,860	1,920	1,980	2,050	2,120	2,190	2,250	2,320	2,380	2,430	2,480
A	5.7	5.8	6.0	6.2	6.4	6.7	6.9	7.1	7.3	7.5	7.6	7.7
M	165	184	205	228	254	282	313	347	385	426	472	523
E	4.9	5.3	5.7	6.1	6.5	7.0	7.4	7.9	8.5	9.1	9.7	10.5
%	57.5	58.3	58.8	59.0	58.9	58.6	58.1	57.5	56.7	55.8	54.8	53.6
105.0												
(252) C	9,220	10,300	11,400	12,600	14,000	15,400	17,000	18,700	20,600	22,600	24,800	27,200
P	1,730	1,780	1,840	1,900	1,970	2,040	2,100	2,170	2,230	2,280	2,330	2,380
A	5.4	5.6	5.8	6.0	6.2	6.4	6.6	6.8	7.0	7.1	7.3	7.4
M	166	185	206	230	256	284	315	350	388	429	475	526
E	5.3	5.8	6.2	6.6	7.1	7.6	8.1	8.6	9.2	9.9	10.6	11.4
%	58.4	59.1	59.4	59.4	59.1	58.7	58.0	57.2	56.3	55.2	53.9	52.5
100.0												
(235) C	9,600	10,700	11,900	13,200	14,600	16,100	17,700	19,600	21,500	23,600	25,900	28,400
P	1,650	1,700	1,760	1,830	1,890	1,960	2,020	2,080	2,140	2,190	2,240	2,270
A	5.2	5.3	5.5	5.7	5.9	6.1	6.3	6.5	6.7	6.9	7.0	7.1
M	167	186	208	231	257	286	317	352	390	432	478	529
E	5.8	6.3	6.7	7.2	7.7	8.2	8.8	9.4	10.1	10.8	11.6	12.5
%	59.3	59.7	59.8	59.6	59.2	58.5	57.7	56.7	55.5	54.2	52.7	51.1
90.0												
(202) C	10,300	11,500	12,800	14,200	15,700	17,400	19,200	21,100	23,200	25,500	28,000	30,700
P	1,510	1,570	1,630	1,690	1,750	1,810	1,870	1,930	1,980	2,020	2,060	2,080
A	4.7	4.9	5.1	5.3	5.5	5.7	5.9	6.0	6.2	6.3	6.4	6.5
M	168	188	209	233	260	289	321	355	394	436	482	533
E	6.8	7.3	7.8	8.4	9.0	9.6	10.2	11.0	11.8	12.6	13.6	14.7
%	60.2	60.2	59.8	59.2	58.4	57.3	56.1	54.6	53.0	51.2	49.2	47.0
80.0												
(173) C	11,000	12,200	13,600	15,100	16,800	18,500	20,500	22,600	24,900	27,300	30,000	
P	1,410	1,470	1,520	1,580	1,640	1,700	1,750	1,800	1,840	1,880	1,900	
A	4.4	4.6	4.8	5.0	5.2	5.3	5.5	5.6	5.8	5.9	5.9	
M	168	188	210	234	261	290	322	358	396	439	485	
E	7.8	8.3	8.9	9.5	10.2	10.9	11.7	12.5	13.5	14.6	15.8	
%	59.2	58.8	58.0	56.9	55.7	54.2	52.5	50.6	48.6	46.2	43.6	
70.0												
(147) C	11,500	12,900	14,300	15,900	17,700	19,600	21,700	23,900	26,300			
P	1,350	1,410	1,470	1,520	1,580	1,630	1,680	1,720	1,750			
A	4.2	4.4	4.6	4.8	5.0	5.1	5.3	5.4	5.5			
M	167	187	209	234	261	290	322	358	397			
E	8.5	9.1	9.8	10.4	11.2	12.0	12.9	13.9	15.0			
%	55.5	54.6	53.4	52.0	50.4	48.6	46.5	44.2	41.6			

C: Capacity (Btu/hr), P: Power (W), A: Current (Amps), M: Mass Flow (lb/hr), E: EER (Btu/Wh), %: Isentropic Efficiency (%)

Nominal Performance Values (±5%) based on 72 hours run-in. Subject to change without notice. Current @ 230 V

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Medium Temp, Liquid Injected



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Service Parts

<u>Reference</u>	<u>Component</u>	<u>Quantity</u>	<u>Description</u>	<u>Comment</u>
13	505-0819-00	1	CAP-DTC INJECTION PORT	
2	527-0116-00	1	SPACER-MOUNTING ASSM	
99	910-0715-00	1	OIL ADJUSTMENT VALVE KIT	
1	918-0043-00	1	HEATER-CRANKCASE	240V 70W WRAP AROUND
1	918-0043-07	1	HEATER-CRANKCASE	120V 70W WRAP AROUND
11	998-0010-02	1	ALL REF SCROLL SG KIT	
14	998-0034-01	1	ADAPTR 3/4 ID TO 11/4-12	SWEAT TO ROTALOCK ADAPTER SUCTION
14	998-0034-07	1	ADPTR 11/4-12 TO 3/4 ID	ROTALOCK TO SWEAT ADAPTER SUCTION
14	998-0034-15	1	ADAPTER 1/2 ID TO 1-14	SWEAT TO ROTALOCK ADAPTER
14	998-0034-18	1	ADAPTER 1-14 TO 1/2 ID	ROTALOCK TO SWEAT ADAPTER
10	998-0500-00	1	KIT-VALVE DTC	3/8 SWEAT TUBE
10	998-0500-01	1	KIT-VALVE DTC	1/4 FLARE
8	998-0510-38	1	SERV VALVE KIT 3/4 SWT	SUCTION
7	998-0510-98	1	SERV VALVE KIT 1/2 SWT	DISCHARGE ROTALOCK
9	998-7026-00	1	HEATER JUNCTION BOX KIT	

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Accessories

<u>Category</u>	<u>PartNumber</u>	<u>Description</u>
Crankcase Heaters	018-0095-00	Crankcase Heater, 240V, 70W, 21" Lead Length
	018-0095-01	Crankcase Heater, 480V, 70W, 21" Lead Length
	018-0095-02	Crankcase Heater, 575V, 70W, 21" Lead Length
	018-0095-03	Crankcase Heater, 240V, 70W, 32" Lead Length
	018-0095-04	Crankcase Heater, 240V, 70W, 48" Lead Length
	018-0095-05	Crankcase Heater, 480V, 70W, 48" Lead Length
	018-0095-06	Crankcase Heater, 575V, 70W, 48" Lead Length
	018-0095-07	Crankcase Heater, 120V, 70W, 48" Lead Length
	018-0095-08	Crankcase Heater, 400V, 70W, 48" Lead Length
	018-0095-09	Crankcase Heater, 277V, 70W, 21" Lead Length
	918-0043-00	Crankcase Heater Kit, 240V, 70W, Wrap Around, 48" Lead Length
	918-0043-01	Crankcase Heater Kit, 480V, 70W, Wrap Around, 48" Lead Length
	918-0043-02	Crankcase Heater Kit, 575V, 70W, Wrap Around, 48" Lead Length
	918-0043-07	Crankcase Heater Kit, 120V, 70W, Wrap Around, 48" Lead Length
	998-7026-00	Crankcase Heater Enclosure Box
Discharge Line	998-0166-00	Topcap Thermistor Kit
	998-0540-00	Discharge Line Thermostat Kit, 1/2" DLT-Stat 12" Leads, 2-Wire
	998-0540-02	Discharge Line Thermostat Kit, 1/2" DLT-Stat 36" Leads, 2-Wire
	998-0548-00	Discharge Line Thermostat Kit, 1/2" DLT-Stat 36" Leads With Alarm
	998-7022-02	Discharge Line Thermostat Kit, 1/2", 36" Leads (Conduit Ready)
Electrical	085-0160-00	3 Phase Voltage Monitor. For use with all Copeland 3 Phase Compressors. Consult model family nomenclature for electrical definition in the model number.
Liquid Injection	505-0819-00	Valve Cap (When Injection is not used)

Scott Kohler
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<u>Category</u>	<u>PartNumber</u>	<u>Description</u>
	998-0500-00	DTC Valve (Liquid Line 3/8" Sweat Tube)
	998-0500-01	DTC Valve (Liquid Line 1/4" Flare)
Miscellaneous	085-CP2M-7K	Dual High and Low Pressure Cut-Out Control
	998-E022-01	Polyol Ester Oil. Approved for use with specific Copeland Hermetic & Semi Hermetic models. Consult specific model family nomenclatures for oil identifier in the model number.
Mounting	527-0116-00	Spacer Mounting Kit, 30-35 Durometer, 1.45" OD, 0.44" ID, 0.75" Height
	527-0157-00	High Durometer Mount Kit, 60-70 Durometer, 1.62" OD, 0.44" ID, 1.16" Height
Mounting	998-0178-00	Hard Mount Kit, 1.87" OD, 0.69" ID, 0.31" Height
Oil Management	65365	Oil Management Control w/ Junction Box 24V, 50/60Hz
	65366	Oil Management Control w/ Series Relief Connector 24V, 50/60Hz
	65668	Oil Management, OMB Adapter (3/4" NPT)
	66650	Oil Management, OMB Adapter (1 1/4"-12 Rotalock)
Service Valves and	998-0034-01	Stub Tube to Rotalock, 3/4" Sweat to 1 1/4"-12 Thread
	998-0034-07	Rotalock to Stub Tube Adapter, 1 1/4"-12 Thread to 3/4" Sweat
	998-0034-15	Stub Tube to Rotalock, 1/2" Sweat (OD Applied) to 1"-14 Thread
	998-0034-18	Rotalock to Stub Tube Adapter, 1"-14 Thread to 1/2" Sweat
	998-0069-01	Stub Tube to Rotalock, 3/4" Sweat to 1 1/4"-12 Thread and 1/2" Sweat to 1"-14 Thread
	998-0510-98	Service Valve Kit, 1"-14 Thread to 1/2" Sweat
	998-0511-02	Service Valve Kit, 1 1/4"-12 Thread to 3/4" Sweat
	998-5100-42	Service Valve Kit, 1 1/4"-12 Thread to 3/4" Sweat and 1"-14 Thread to 1/2" Sweat

Common U.S. OEM Bill Of Materials

	Suction Connection	Suction Size	Discharge Connection	Discharge Size	Electrical Connection	Mounting Assembly	Sight Glass	Crankcase Heater	Schraeder Valve	Tandem Ready	Module Voltage
231	Stub	3/4"	Stub	1/2"	FLAG	-	Yes	-	-	-	-
236	Stub	3/4"	Stub	1/2"	FLAG	-	Yes	-	-	-	-
241	Rotalock	1 1/4"	Rotalock	1"	FLAG	-	Yes	-	-	-	-
243						-	-	-	-	-	-
246	Rotalock	1 1/4"	Rotalock	1"	FLAG	-	Yes	-	-	-	-

Common U.S. Service Bill Of Materials

	Suction Connection	Suction Size	Discharge Connection	Discharge Size	Electrical Connection	Mounting Assembly	Sight Glass	Crankcase Heater	Schraeder Valve	Tandem Ready	Module Voltage
931	Stub	3/4"	Stub	1/2"	FLAG	Yes	Yes	-	-	-	-
961	Rotalock	1 1/4"	Rotalock	1"	FLAG	Yes	Yes	-	-	-	-

* Note: For all other Bill Of Material descriptions (Including International and Customer Specific Bills of Materials) contact your sales representative or the Application Engineering Department.