

ZS21KAE-TF5



HFC, R-404A, 60Hz, 3- Phase, 200/230 V
Extended Medium Temp

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

Performance

Evap(°F)/Cond(°F)	20 / 120	-10 / 120
RG(°F)/Liq(°F)	40.0 / 120.0	40.0 / 120.0
Capacity (Btu/hr)	22000	11450
Power (Watts):	3290	2890
Current (Amps):	10.30	9.45
EER (Btu/Wh):	6.70	3.95
Mass Flow (lbs/hr):	523	260
Sound Power (dBA):	76 Avg	81 Max
Vibration (mils(peak-peak)):	2.0 Avg	3.0 Max
Record Date:	2013-04-17	

Mechanical

Number of Cylinders:	0	Displ(in ³ /Rev):	3.11
Bore Size(in):	0.00	Displ(ft ³ /hr):	377.71
Stroke(in):	0.00		
Overall Length (in):	9.69	Mounting Length (in):	7.50
Overall Width (in):	9.69	Mounting Width (in):	7.50
Overall Height (in):	16.94	Mounting Height (in):	17.17 *
Suction Size (in):		7/8 Stub	
Discharge Size (in):		1/2 Stub	
Oil Recharge (oz):		34	
Initial Oil Charge (oz):		42	
Net Weight (lbs):		64.9	
Internal Free Volume (in ³):		226.0	
Horse Power:		3.2	
*Overall compressor height on Copeland Brand Product's specified mounting grommets.			

Electrical

LRA-High*:	93.0	MCC (Amps):	21.3	UL File No:	SA-2337
LRA-Half Winding:		RPM:	3500	UL File Date:	17-Dec-2003
LRA Low*:		Max Operating Current:	14.0		
RLA(=MCC/1.4;use for contactor selection):			15.2		
RLA(=MCC/1.56;use for breaker & wire size selection):			13.7		
*Low and High refer to the low and high nominal voltage ranges for which the motor is approved.					

Alternate Applications

Refrigerant	Freq (Hz)	Phase	Voltage	Application
R-22 HCFC	50	3	200/220	High Temp
R-134a HFC	50	3	200/220	High Temp
R-404A HFC	50	3	200/220	Extended Medium Temp
R-507 HFC	50	3	200/220	Medium Temperature
R-407C HFC	50	3	200/220	High Temp
R-407A HFC	50	3	200/220	Extended Medium Temp
R-448A HFO	50	3	200/220	Extended Medium Temp
R-449A HFO	50	3	200/220	Extended Medium Temp
R-22 HCFC	60	3	200/230	High Temp
R-134a HFC	60	3	200/230	High Temp

Alternate Applications

<u>Refrigerant</u>	<u>Freq (Hz)</u>	<u>Phase</u>	<u>Voltage</u>	<u>Application</u>
R-507 HFC	60	3	200/230	Medium Temperature
R-407C HFC	60	3	200/230	High Temp
R-407A HFC	60	3	200/230	Extended Medium Temp
R-448A HFO	60	3	200/230	Extended Medium Temp
R-449A HFO	60	3	200/230	Extended Medium Temp
R-507 HFC	60	3	200/230	Extended Medium Temp
R-507 HFC	50	3	200/220	Extended Medium Temp
R-404A HFC	50	3	200/220	Medium Temperature
R-404A HFC	60	3	200/230	Medium Temperature
R-449A HFO	50	3	200/220	Medium Temperature
R-449A HFO	60	3	200/230	Medium Temperature
R-448A HFO	50	3	200/220	Medium Temperature
R-448A HFO	60	3	200/230	Medium Temperature

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Service Parts

<u>Reference</u>	<u>Component</u>	<u>Quantity</u>	<u>Description</u>	<u>Comment</u>
99	527-0116-00	1	SPACER-MOUNTING ASSM	
99	529-0060-24	1	POWER CABLE-MOLDED PLUG	
99	918-0043-00	1	HEATER-CRANKCASE	240V 70W WRAP AROUND
99	918-0043-07	1	HEATER-CRANKCASE	120V 70W WRAP AROUND
99	998-0510-44	1	SERV VALVE KIT 1/2 SWT	DISCHARGE ROTALOCK
99	998-0510-90	1	SERV VALVE KIT 7/8 SWT	SUCTION
99	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
	018-0095-04	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
	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	998-0540-00	Discharge Line Thermostat Kit, 1/2" DLT-Stat 12" 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)
Molded Plugs	529-0060-04	Molded Plug Kit, 10 GA Wire, 42" Length, Black / Yellow / Red
	529-0060-24	Molded Plug Kit, 10 GA Wire, 42" Length, Black / Charcoal Gray / Light Gray
	529-0106-00	Transport Style Molded Plug With Retention Clip Kit - 12 GA Wire
	998-0230-00	Conduit Adapter Kit, for molded plug. Includes adapter, retaining clip, 29" conduit. Molded Plug not included.
Mounting	527-0116-00	Spacer Mounting Kit, 30-35 Durometer, 1.45" OD, 0.44" ID, 0.75" Height
Service Valves and	998-0034-02	Stub Tube to Rotalock, 7/8" Sweat to 1 1/4"-12 Thread
	998-0034-15	Stub Tube to Rotalock, 1/2" Sweat (OD Applied) to 1"-14 Thread
	998-0069-00	Stub Tube to Rotalock, 7/8" Sweat to 1 1/4"-12 Thread and 1/2" Sweat to 1"-14 Thread

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<u>Category</u>	<u>PartNumber</u>	<u>Description</u>
	998-0510-39	Service Valve Kit, 1 1/4"-12 Thread to 7/8" Sweat
	998-0510-90	Service Valve Kit, 1 1/4"-12 Thread to 7/8" Sweat
	998-0510-98	Service Valve Kit, 1"-14 Thread to 1/2" Sweat
	998-5100-42	Service Valve Kit, 1 1/4"-12 Thread to 3/4" Sweat and 1"-14 Thread to 1/2" Sweat
	998-5100-48	Service Valve Kit, 1 1/4"-12 Thread to 7/8" Sweat and 1"-14 Thread to 1/2" Sweat

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
818	Stub	7/8"	Stub	1/2"		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.