

ZPD42K5E-TFD

HFC, R-410A, 60 Hz, 3 -phase, 460 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

Evap(°F)/Cond(°F)	45 / 130	45 / 100
RG(°F)/Liq(°F)	65.0 / 115.0	65.0 / 85.0
Capacity (Btu/hr)	42600	52500
Power (Watts):	3980	2680
Current (Amps):	5.65	4.15
EER (Btu/Wh):	10.70	19.60
Mass Flow (lbs/hr):	627	649
<u>Sound Data</u>		
Sound Power (dBA):	77 Avg	82 Max
Vibration (mils(peak-peak)):	2.0 Avg	3.0 Max
Record Date:	2013-02-15	

Mechanical

Number of Cylinders:	0	Displ(in^3/Rev):	2.43
Bore Size(in):	0.00	Displ(ft^3/hr):	295.31
Stroke(in):	0.00		
Overall Length (in):	9.57	Mounting Length (in):	7.50
Overall Width (in):	9.57	Mounting Width (in):	7.50
Overall Height (in):	17.66	Mounting Height (in):	18.41 *
Suction Size (in):	25/32 Stub		
Discharge Size (in):	1/2 Stub		
Oil Recharge (oz):	38		
Initial Oil Charge (oz):	42		
Net Weight (lbs):	72.2		
Internal Free Volume (in^3):			
Horse Power:			
*Overall compressor height on Copeland Brand Product's specified mounting grommets.			

Electrical

LRA-High*:	52.0	MCC (Amps):	12.1	UL File No:
LRA-Half Winding:		RPM:	3500	UL File Date:
LRA Low*:		Max Operating Current:	7.9	
RLA(=MCC/1.4;use for contactor selection):	8.6			
RLA(=MCC/1.56;use for breaker & wire size)	7.8			
*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-410A HFC	50	3	380/420	A/C, 50% Load Of Compressor
R-410A HFC	60	3	460	A/C, 50% Load Of Compressor
R-410A HFC	50	3	380/420	Air Conditioning

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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	918-0041-00	1	HEATER-CRANKCASE	240V 40W WRAP AROUND
99	918-0041-01	1	HEATER-CRANKCASE	120V 40W WRAP AROUND
99	918-0041-02	1	HEATER-CRANKCASE	480V 40W WRAP AROUND
99	985-0199-00	1	THERMISTOR KIT	1/2 TUBE DIA FOR EXT DISCHARGE
99	998-0034-02	1	ADAPTR 7/8 ID TO 11/4-12	SWEAT TO ROTALOCK ADAPTER KIT
99	998-0034-08	1	ADPTR 11/4-12 TO 7/8 ID	ROTALOCK TO SWEAT ADAPTER KIT
99	998-0034-15	1	ADAPTER 1/2 ID TO 1-14	SWEAT TO ROTALOCK ADAPTER KIT
99	998-0034-18	1	ADAPTER 1-14 TO 1/2 ID	ROTALOCK TO SWEAT ADAPTER KIT
99	998-0061-19	1	KIT-HOLDING COIL	SOLENOID VALVE AND 24V COIL ONLY
99	998-0090-00	1	TUBING KIT R-410A	TUBING ONLY
99	998-0090-01	1	TUBING & VALVE KIT R410A	SOLENOID VALVE AND TUBING ONLY
99	998-0090-02	1	TUBING VALVE W/COIL KIT	SOLENOID VALVE TUBING AND 24V COIL
99	998-0510-90	1	SERV VALVE KIT 7/8 SWT	SUCTION ROTALOCK
99	998-0510-98	1	SERV VALVE KIT 1/2 SWT	DISCHARGE ROTALOCK
99	998-7022-02	1	DISCH LINE T'STAT	FITS 1/2 TUBE
99	998-7026-00	1	HEATER JUNCTION BOX KIT	

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
830	Stub	7/8"	Stub	1/2"		Yes	-	-	-	-	-
899	Stub	7/8"	Stub	1/2"		-	-	-	-	-	-

*** 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.