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Find the *Emerson Climate / Copeland CJDL-0601-TFC-100* at our website: *Click HERE*

3DA3-060E-TFC NewModel: 3DA3F28KE-TFC

HFC, R-404A, Mid Point, 60 Hz, 3 - Phase, V
Low Temperature

Production Status: This model is obsolete and is no longer in production for both OEM and service replacement. Please contact Customer Service about possible replacement models.

Performance

Evap(°F)/Cond(°F)	/	/
RG(°F)/Liq(°F)	/	/

Capacity (Btu/hr):
Power (Watts):
Current (Amps):
EER (Btu/Wh):
Mass Flow (lbs/hr):

Sound Power(dBA): 0 Ave 0 Max
Vibration (mils(peak-peak)): 0.0 Ave 0.0 Max

Record Date: 2003-09-19

Mechanical

Number of Cylinders: Displ (in^3/Rev):
Bore Size (in): Displ (ft^3/hr):
Stroke (in):

Overall Length (in): Mounting Length (in):
Overall Width (in): Mounting Width(in):
Overall Height (in): Mounting Height (in): *

Suction Size (in):
Discharge Size (in):
Initial Oil Charge (oz):
Oil Recharge (oz):
Net Weight (lbs):
Internal Free Volume (in^3):
HorsePower

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

Electrical

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

Alternate Applications

Refrigerant	Frequency(Hz)	Phase	Voltage	Application

Joseph, Stuber.
7/31/2009

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

60 Hz Operation

LOW TEMPERATURE

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

3DA3-060E-TFC

COPELAMETIC® HFC-404A DISCUS® COMPRESSOR
TFC 208/230-3-60

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

		-40 (4.5)	-35 (7.1)	-30 (9.9)	-25 (13)	-20 (16)	-15 (20)	-10 (24)	-5 (28)	0 (33)
130 (354)	C	10100	13300	16500	20000	23600	27500	31500	35900	40600
	P	3620	4240	4830	5400	5950	6500	7000	7500	8000
	A	14.5	15.7	16.9	18.1	19.3	20.5	21.7	22.9	24.1
	M	225	293	366	443	525	615	710	810	920
	E	2.8	3.1	3.4	3.7	4	4.2	4.5	4.8	5.1
	%	61.9	65.3	67.6	69.1	70.2	71	71.6	72	72.1
120 (310)	C	13500	16600	19900	23400	27200	31300	35800	40500	45700
	P	3950	4480	4980	5450	5950	6400	6850	7300	7700
	A	15.1	16.1	17.1	18.2	19.2	20.3	21.3	22.4	23.4
	M	268	331	399	472	550	635	730	830	940
	E	3.4	3.7	4	4.3	4.6	4.9	5.2	5.6	5.9
	%	64.5	66.5	68	69.1	70	70.7	71.3	71.6	71.8
110 (271)	C	16200	19300	22700	26400	30500	34900	39700	44900	50500
	P	4100	4550	4980	5400	5800	6200	6600	6950	7350
	A	15.4	16.2	17.1	18	18.9	19.8	20.7	21.6	22.6
	M	298	357	421	492	570	655	745	850	960
	E	4	4.2	4.6	4.9	5.3	5.6	6	6.5	6.9
	%	65.7	67	68.1	69	69.9	70.6	71.1	71.5	71.7
105 (252)	C	17400	20500	24000	27800	32000	36600	41600	47100	53000
	P	4120	4540	4930	5300	5700	6050	6400	6800	7150
	A	15.4	16.2	17	17.9	18.7	19.5	20.4	21.2	22.1
	M	309	366	429	499	575	660	755	855	970
	E	4.2	4.5	4.9	5.2	5.6	6	6.5	7	7.4
	%	66	67.1	68.1	69	69.8	70.5	71.1	71.5	71.6
100 (235)	C	18500	21700	25200	29100	33500	38300	43500	49300	55500
	P	4120	4500	4870	5250	5600	5900	6250	6600	6900
	A	15.4	16.1	16.9	17.7	18.4	19.2	20	20.8	21.6
	M	318	374	436	505	580	665	760	865	980
	E	4.5	4.8	5.2	5.6	6	6.5	7	7.5	8
	%	66.1	67.1	68	68.9	69.8	70.5	71.1	71.4	71.5
90 (203)	C	20500	23800	27600	31800	36500	41700	47500	54000	61000
	P	4050	4380	4700	5000	5300	5600	5900	6250	6550
	A	15.3	15.9	16.6	17.2	17.9	18.6	19.3	20	20.7
	M	331	386	448	515	595	680	780	885	1000
	E	5.1	5.4	5.9	6.3	6.9	7.4	8	8.7	9.3
	%	66.1	66.9	67.8	68.8	69.6	70.3	70.9	71.1	71
80 (174)	C	22400	26000	30000	34600	39700	45500	52000	59000	66500
	P	3950	4230	4520	4790	5050	5350	5650	5900	6200
	A	15.1	15.6	16.2	16.8	17.4	18	18.6	19.2	19.8
	M	342	397	459	530	610	700	800	910	1030
	E	5.7	6.1	6.6	7.2	7.8	8.5	9.2	10	10.7
	%	65.8	66.6	67.5	68.4	69.2	69.8	70.1	70.1	69.7
70 (148)	C	24600	28400	32800	37800	43400	49700	57000	64500	73000
	P	3860	4110	4370	4630	4890	5150	5400	5700	6000
	A	14.9	15.4	15.9	16.5	17	17.5	18.1	18.6	19.2
	M	355	410	474	550	630	725	830	945	1080
	E	6.4	6.9	7.5	8.2	8.9	9.7	10.5	11.3	12.2
	%	65	65.7	66.5	67.4	68	68.4	68.4	67.9	67

C:Capacity(Btu/hr), P:Power(Watts), A:Current(Amps), M:Mass Flow(lbs/hr), E:EER(Btu/Watt-hr), %:Isentropic Efficiency(%)

OBSOLETE

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

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Autogenerated Compressor Performance

Copeland EMERSON

1.24LT-25-TFC
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3DA3-060E-TFC

HFC, R-404A, Mid Point, 60 Hz, 3 - Phase, V
Low Temperature
Production Status: This model is obsolete and is no longer in production for both OEM and service replacement. Please contact Customer Service about possible replacement models.

The information on this page should not be used for the selection of service parts. Please use the "Service Parts" tab for replacement part information.

Accessories

PartNumber	Description
023-0039-01	Coil, 120v, Alco - Demand cooling valve (Unloader Valve)
023-0039-02	Coil, 240v, Alco - Demand cooling valve (Unloader Valve)
023-0042-01	Solenoid Coil 120v, 50/60 Hz, Parker - Demand cooling valve
023-0042-02	Solenoid Coil 240v, 50/60 Hz, Parker - Demand cooling valve
024-0200-00	Fan Guard - Top, for Head Cooling Fan
030-0187-00	Heater Sleeve, well style - Order well separately
083-0118-00	Fan Blade - for Head Cooling Fan
085-0109-00	Temperature Probe-Standard 41" - Demand Cooling
085-0109-01	Temperature Probe-10 ft cable - Demand Cooling
085-0110-00	Control Module 120v 50/60 Hz - Demand Cooling
085-0110-01	Control Module 240v 50/60 Hz - Demand Cooling
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.
510-0351-01	Demand Cooling Valve 60 Hz Alco
510-0351-02	Demand Cooling Valve 50 Hz Alco
510-0352-02	Demand Cooling Valve & Coil 120v, 60 Hz, Alco
510-0352-03	Demand Cooling Valve & Coil 240v, 60 Hz, Alco
510-0352-08	Demand Cooling Valve & Coil 240v, 50 Hz, Alco
510-0352-10	Demand Cooling Valve & Coil 120v, 50 Hz, Alco
585-1066-02	Sentronic Oil Pressure Control - Kit includes Sentronic oil pressure control, screws to mount control, oil pressure sensor, and sensor gaskets. Control mounting brackets are supplied on service replacement compressors.
918-0009-00	Crankcase Heater, 120v, 65w, bolt on. For usage on specific Copeland Copelametic & Discus Compressor except deep sump models. Includes crankcase heater, and reference drawings.
918-0009-01	Crankcase Heater, 240v, 65w, bolt on. For usage on specific Copeland Copelametic, & Discus Compressor except deep sump models. Includes crankcase heater, and reference drawings.
918-0009-02	Crankcase Heater, 480v, 65w, bolt on. For usage on specific Copeland Copelametic, & Discus Compressor except deep sump models. Includes crankcase heater, and reference drawings.
918-0009-03	Crankcase Heater, 600v, 65w, bolt on. For usage on specific Copeland Copelametic, & Discus Compressor except deep sump models. Includes crankcase heater, and reference drawings.
918-0009-04	Crankcase Heater, 12v, 65w, bolt on. For usage on specific Copeland Copelametic & Discus Compressors execpt deep sump models. Includes crankcase heater, and reference drawing.
998-0017-45	Kit-VP Replaces 998-0017-15 - Used on 3DK3-1200 & 120E, 3DT3-1500 & 150E, 3DT3-1000-Converts 3DF3-075x to 3DK3-075x, 3DS3-075x to 3DT3-075x, 3DF3-090x to 3DK3-090x, 3DS3-100x to 3DT3-100x, 3DF3-120x, & 3DS3-150x to 3DT3-150x
998-0017-46	Kit-Valve Plate Replaces 998-0017-16 - Used on 3DH3-0900 & 090E, 3DR3-1000 & 100E - Laser Reed Models converts 3DF3-090x to 3DG3-090x, & 3DJ3-100x to 3DR3-100x
998-0017-47	Kit-Valve Plate Replaces 998-0017-17 - Used on 3DH3-0600 & 060E, 3DJ3-0750 & 075E - LASER REED converts 3DA3-060x to 3DH3-060x, & 3DB3-075x to 3DJ3-075x
998-0017-48	Kit-Valve Plate Replaces 998-0017-18 - Used on 3DP3-1000 & 100E - LASER REED MODELS converts from 3DB3-075x to 3DP3-075x, & 3DB3-100x to 3DP3-100x
998-0017-49	Kit-Valve Plate Replaces 998-0017-19 - Used on 3DE3-0750 & 075E - LASER REED MODELS converts from 3DA3-075x to 3DEe-075x
998-0017-50	Kit-Valve Plate Replaces 998-0017-20 - Used on 3DE3-0500 - LASER REED converts 3DA3-050x to 3DE3-050x

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3DA3-060E-TFC

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Accessories

PartNumber	Description
998-0161-01	Sentronic Oil Control - Control only, supplied with 44" cable as standard
998-0162-00	Kit includes sensor, gaskets, and cable.
998-0283-02	Standard Sentronic cable is 44" long. The extension cable is 12 ft long and must be wired into the control. Kit 998-0283-02 includes instructions.
998-0326-02	Unloader Valve & Coil 120v
998-0326-03	Unloader Valve & Coil 240v
998-0550-00	Fan Motor Blade & Guard Assembly 230v, Does not include mounting bracket. Must be ordered separately
998-0550-01	Fan Motor Blade & Guard Assembly 460v, Does not include mounting bracket. Must be ordered separately
998-0550-02	Fan Motor Blade & Guard Assembly 115v, Does not include mounting bracket. Must be ordered separately
998-0550-03	Fan Motor 230v. Includes fan motor mounted to bottom guard
998-0550-04	Fan Motor 460v. Includes fan motor mounted to bottom guard
998-0550-05	Fan Motor 115v. Includes fan motor mounted to bottom guard
998-0574-08	Fan Mounting Kit. Vertical fan mount on top of compressor head 9D & 9R(2-5/8 head height - 9R**-XXX5 models & 3DA, 3DB, 3DF, 3DS)
998-0574-10	Fan Mounting Kit. Vertical fan mount on top of compressor head 3D moduload models (3DE, 3DG, 3DH, 3DJ, 3DK, 3DP, 3DR, 3DT)
998-0683-01	Shipping Plate, Gasket, and Bolt (Suction all 2) (Discharge all 3D, 4D, 4R, 6D, 6R & 9R) (Suction) (Suction 5, 6, 71/2, 9, & 10 12 HP)
998-0683-02	Shipping Plate, Gasket, and Bolt (Suction 6R, 10, 15 & 20 HP)
998-0700-09	Control Mounting Bracket Kit
998-1000-13	Demand Cooling Kit 120v / 60Hz
998-1000-23	Demand Cooling Kit 240v / 60Hz
998-1001-13	Demand Cooling Kit 120v / 50Hz
998-1001-23	Demand Cooling Kit 240v / 50Hz
998-2017-40	Converts 3DFxA120E to 3DKHA120E, & 3DSxA150E to 3DTHA150E
998-2017-41	Converts 3DF3A090E to 3DGHA090E, & 3DS3A100E to 3DRHA100E
998-2017-42	Converts 3DAxA060E to 3DHHA060E, & 3DBxA075E to 3DJHA075E
998-2017-43	Converts 3DB3A100E to 3DPHA100E
998-2017-44	Converts 3DAxA075E to 3DEHA075E
998-2017-45	Converts 3DF3A0750 to 3DK3A0750 and 3DF3A0900 to 3DK3A0900 and 3DF3A1200 to 3DK3A1200 and 3DS3A1000 to 3DT3A1000 and 3DS3A1500 to 3DT3A1500
998-2017-46	Converts 3DF3A0900 to 3DG3A0900 and 3DS3A1000 to 3DR3A1000
998-2017-47	Converts 3DA3A0600 to 3DH3A0600 and 3DB3A0750 to 3DJ3A0750
998-2017-48	Converts 3DB3A1000 to 3DP3A1000
998-2017-49	Converts 3DA3A0750 to 3DE3A0750 and 3DS3A07500 to 3DT3A07500
998-2017-50	Converts 3D3A0500 to 3DE3a0500
998-AB52-01	Akylbenzene Oil. Approved for use with specific Copeland Semi Hermetic After Market Compressors. Consult model family nomenclatures for oil identifier in the model number.
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.

Joseph, Stuber.
7/31/2009

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