

ZR125KC-TFD

HCFC, R-22, 50 Hz, 3 - Phase, 380/420 V

Air Conditioning



Production Status: Available for sale to all U.S. customers. Please check with your local Copeland representative for international availability.

Performance

<u>Evap(°F)/Cond(°F)</u>	<u>45/130</u>	<u>45/100</u>
<u>RG(°F)/Liq(°F)</u>	<u>65/115</u>	<u>65/85</u>
Capacity (Btu/hr):	105000	122000
Power (Watts):	9100	6650
Current (Amps):	15.9	12.5
EER (Btu/Wh):	11.5	18.4
Mass Flow (lbs/hr):	1540	1580
Sound Power (dBA):	77.0 Ave 82.0 Max	
Vibration (mils(peak-peak)):	2.5 Ave 3.5 Max	

Mechanical

Number of Cylinders:	0	CIR (in ³ /Rev):	10.106
Bore Size (in):	0.0	CFH (ft ³ /hr):	1017.613
Stroke(in):	0.0		
Overall Length (in):	10.38	Mounting Length (in):	7.5
Overall Width (in):	11.19	Mounting Width (in):	7.5
Overall Height (in):	21.5	Mounting Height (in):	21.75
Suction Size (in):	1 3/8 Stub		
Discharge Size (in):	7/8 Stub		
Initial Oil Charge (oz):	110		
Oil Recharge (oz):	106		
Net Weight (lbs):	144.0		

Electrical

RLA:	19.2	MCC (Amps):	26.9	UL File No.:	SA-2337
LRA-Low:	110.0	RPM:	2900	UL File Date:	27-Sep-1996
LRA-High:	118.0	Max Operating Current:	19.6	CSA File No.:	LR3104C
LRA-Half Winding:					

Alternate Applications

<u>Refrigerant</u>	<u>Frequency (Hz)</u>	<u>Phase</u>	<u>Voltage</u>	<u>Application</u>
R-22 HCFC	60	3	460	Air Conditioning

ZR125KC-TFD

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Performance

<u>Evap(°C)/Cond(°C)</u>	<u>7.2/54.4</u>	<u>7.2/37.8</u>
<u>RG(°C)/Liq(°C)</u>	<u>18.3/46.1</u>	<u>18.3/29.4</u>
Capacity (Watts):	31000	36000
Power (Watts):	9100	6650
Current (Amps):	15.9	12.5
EER (COP):	3.37	5.39
Mass Flow (g/s):	194	199
Sound Power (dBA):	77 Ave 82 Max	
Vibration (mm(peak-peak)):	0.063 Ave 0.089 Max	

Mechanical

Number of Cylinders:	0	CIR (cm ³ /Rev):	0.166
Bore Size (mm):	0	CFH (cm ³ /hr):	28815.60
Stroke(mm):	0		
Overall Length (mm):	263.652	Mounting Length (mm):	190.5
Overall Width (mm):	284.226	Mounting Width (mm):	190.5
Overall Height (mm):	546.1	Mounting Height (mm):	552.45
Suction Size (in):	1 3/8 Stub		
Discharge Size (in):	7/8 Stub		
Initial Oil Charge (liters):	3.253		
Oil Recharge (liters):	3.135		
Net Weight (kg):	65.317		

Electrical

RLA:	19.2	MCC (Amps):	26.9	UL File No.:	SA-2337
LRA-Low:	110.0	RPM:	2900	UL File Date:	27-Sep-1996
LRA-High:	118.0	Max Operating Current:	19.6	CSA File No.:	LR3104C
LRA-Half Winding:					

Alternate Applications

<u>Refrigerant</u>	<u>Frequency (Hz)</u>	<u>Phase</u>	<u>Voltage</u>	<u>Application</u>
R-22 HCFC	60	3	460	Air Conditioning

ZR125KC-TFD

HCFC, R-22, 60 Hz, 3 - Phase, 460 V

Air Conditioning



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Performance

<u>Evap(°F)/Cond(°F)</u>	<u>45/130</u>	<u>45/100</u>
<u>RG(°F)/Liq(°F)</u>	<u>65/115</u>	<u>65/85</u>
Capacity (Btu/hr):	126000	148000
Power (Watts):	11000	8150
Current (Amps):	16.3	13
EER (Btu/Wh):	11.5	18.2
Mass Flow (lbs/hr):	1860	1910
Sound Power (dBA):	80.0 Ave	85.0 Max
Vibration (mils(peak-peak)):	2.5 Ave	3.5 Max

Mechanical

Number of Cylinders:	0	CIR (in ³ /Rev):	10.106
Bore Size (in):	0.0	CFH (ft ³ /hr):	1228.161
Stroke(in):	0.0		
Overall Length (in):	10.38	Mounting Length (in):	7.5
Overall Width (in):	11.19	Mounting Width (in):	7.5
Overall Height (in):	21.5	Mounting Height (in):	21.75
Suction Size (in):		1 3/8 Stub	
Discharge Size (in):		7/8 Stub	
Initial Oil Charge (oz):		110	
Oil Recharge (oz):		106	
Net Weight (lbs):		144.0	

Electrical

RLA:	19.2	MCC (Amps):	26.9	UL File No.:	SA-2337
LRA-Low:		RPM:	3500	UL File Date:	27-Sep-1996
LRA-High:	125.0	Max Operating Current:	19.6	CSA File No.:	LR3104C
LRA-Half Winding:					

Alternate Applications

<u>Refrigerant</u>	<u>Frequency (Hz)</u>	<u>Phase</u>	<u>Voltage</u>	<u>Application</u>
R-22 HCFC	50	3	380/420	Air Conditioning

ZR125KC-TFD

HCFC, R-22, 60 Hz, 3 - Phase, 460 V

Air Conditioning



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Performance

<u>Evap(°C)/Cond(°C)</u>	<u>7.2/54.4</u>	<u>7.2/37.8</u>
<u>RG(°C)/Liq(°C)</u>	<u>18.3/46.1</u>	<u>18.3/29.4</u>
Capacity (Watts):	37000	43500
Power (Watts):	11000	8150
Current (Amps):	16.3	13
EER (COP):	3.37	5.33
Mass Flow (g/s):	234	241
Sound Power (dBA):	80 Ave	85 Max
Vibration (mm(peak-peak)):	0.063 Ave	0.089 Max

Mechanical

Number of Cylinders:	0	CIR (cm ³ /Rev):	0.166
Bore Size (mm):	0	CFH (cm ³ /hr):	34777.67
Stroke(mm):	0		
Overall Length (mm):	263.652	Mounting Length (mm):	190.5
Overall Width (mm):	284.226	Mounting Width (mm):	190.5
Overall Height (mm):	546.1	Mounting Height (mm):	552.45
Suction Size (in):		1 3/8 Stub	
Discharge Size (in):		7/8 Stub	
Initial Oil Charge (liters):		3.253	
Oil Recharge (liters):		3.135	
Net Weight (kg):		65.317	

Electrical

RLA:	19.2	MCC (Amps):	26.9	UL File No.:	SA-2337
LRA-Low:		RPM:	3500	UL File Date:	27-Sep-1996
LRA-High:	125.0	Max Operating Current:	19.6	CSA File No.:	LR3104C
LRA-Half Winding:					

Alternate Applications

<u>Refrigerant</u>	<u>Frequency (Hz)</u>	<u>Phase</u>	<u>Voltage</u>	<u>Application</u>
R-22 HCFC	50	3	380/420	Air Conditioning

RATING CONDITIONS

20° F Superheat
 15° F Sub Cooling
 95° F Ambient Air Over
 50 Hz Operation

**AIR
 CONDITIONING**

ZR125KC 3 PHASE

SCROLL® HCFC-22
 COMPRESSOR
 380/420-3-50 -TFD

Condensing Temperature °F (°C)	CAPACITY (BTU/HR)								
	-10 (-23.3)	0 (-17.8)	10 (-12.2)	20 (-6.7)	30 (-1.1)	40 (4.4)	45 (7.2)	50 (10.0)	55 (12.8)
80 (26.7)	40800	52300	66300	82700	101400	122500	133900	145900	158400
90 (32.2)	38600	49500	62700	78400	96500	116900	127900	139500	151700
100 (37.8)	36700	46900	59500	74500	91900	111500	122200	133500	145300
110 (43.3)	.	44400	56300	70600	87300	106200	116600	127500	139000
120 (48.9)	.	.	52900	66500	82500	100800	110800	121300	132400
130 (54.4)	.	.	.	62000	77300	94900	104600	114800	125500
140 (60.0)	.	.	.	.	71500	88400	97700	107500	117900
150 (65.6)	.	.	.	.	.	80900	89900	99400	109400

Condensing Temperature °F (°C)	EER (BTU/WATT-HR)								
	-10 (-23.3)	0 (-17.8)	10 (-12.2)	20 (-6.7)	30 (-1.1)	40 (4.4)	45 (7.2)	50 (10.0)	55 (12.8)
80 (26.7)	8.3	10.5	13.0	16.0	19.3	22.9	24.6	26.4	28.1
90 (32.2)	7.1	8.9	11.1	13.6	16.5	19.7	21.3	22.9	24.5
100 (37.8)	6.0	7.5	9.4	11.6	14.2	17.0	18.4	19.9	21.4
110 (43.3)	.	6.4	7.9	9.9	12.1	14.6	15.9	17.2	18.6
120 (48.9)	.	.	6.7	8.3	10.2	12.4	13.6	14.8	16.0
130 (54.4)	.	.	.	6.9	8.5	10.4	11.5	12.5	13.6
140 (60.0)	.	.	.	.	7.0	8.6	9.5	10.5	11.5
150 (65.6)	.	.	.	.	.	7.0	7.8	8.6	9.5

Condensing Temperature °F (°C)	POWER (WATTS)								
	-10 (-23.3)	0 (-17.8)	10 (-12.2)	20 (-6.7)	30 (-1.1)	40 (4.4)	45 (7.2)	50 (10.0)	55 (12.8)
80 (26.7)	4890	5000	5090	5160	5240	5360	5440	5530	5640
90 (32.2)	5460	5590	5680	5750	5830	5930	6000	6080	6180
100 (37.8)	6100	6240	6330	6410	6480	6570	6630	6700	6790
110 (43.3)	.	6980	7080	7160	7220	7300	7350	7400	7480
120 (48.9)	.	.	7950	8020	8080	8130	8170	8220	8270
130 (54.4)	.	.	.	9020	9060	9100	9130	9160	9200
140 (60.0)	.	.	.	.	10210	10230	10250	10270	10290
150 (65.6)	.	.	.	.	.	11550	11550	11550	11560

Condensing Temperature °F (°C)	CURRENT (AMPS) @ 380 Volts								
	-10 (-23.3)	0 (-17.8)	10 (-12.2)	20 (-6.7)	30 (-1.1)	40 (4.4)	45 (7.2)	50 (10.0)	55 (12.8)
80 (26.7)	10.5	10.6	10.7	10.8	10.9	11.0	11.1	11.2	11.3
90 (32.2)	11.1	11.2	11.4	11.5	11.6	11.7	11.8	11.9	12.0
100 (37.8)	11.9	12.0	12.2	12.3	12.4	12.5	12.5	12.6	12.7
110 (43.3)	.	13.0	13.1	13.2	13.3	13.4	13.5	13.5	13.6
120 (48.9)	.	.	14.3	14.3	14.4	14.5	14.6	14.6	14.7
130 (54.4)	.	.	.	15.7	15.8	15.8	15.9	15.9	16.0
140 (60.0)	.	.	.	.	17.4	17.4	17.4	17.5	17.5
150 (65.6)	.	.	.	.	.	19.3	19.3	19.3	19.3

Condensing Temperature °F (°C)	MASS FLOW (LBS/HR)								
	-10 (-23.3)	0 (-17.8)	10 (-12.2)	20 (-6.7)	30 (-1.1)	40 (4.4)	45 (7.2)	50 (10.0)	55 (12.8)
80 (26.7)	523	663	828	1020	1240	1480	1600	1740	1880
90 (32.2)	516	651	815	1000	1220	1460	1590	1720	1860
100 (37.8)	510	643	804	993	1210	1450	1580	1710	1850
110 (43.3)	.	634	794	981	1200	1440	1570	1700	1850
120 (48.9)	.	.	779	966	1180	1420	1560	1690	1840
130 (54.4)	.	.	.	943	1160	1400	1540	1680	1820
140 (60.0)	.	.	.	.	1130	1370	1510	1650	1800
150 (65.6)	.	.	.	.	.	1330	1470	1610	1760

Nominal Performance Values (±5%) based on minimum 24 hours run-in. Subject to change without notice.



RATING CONDITIONS

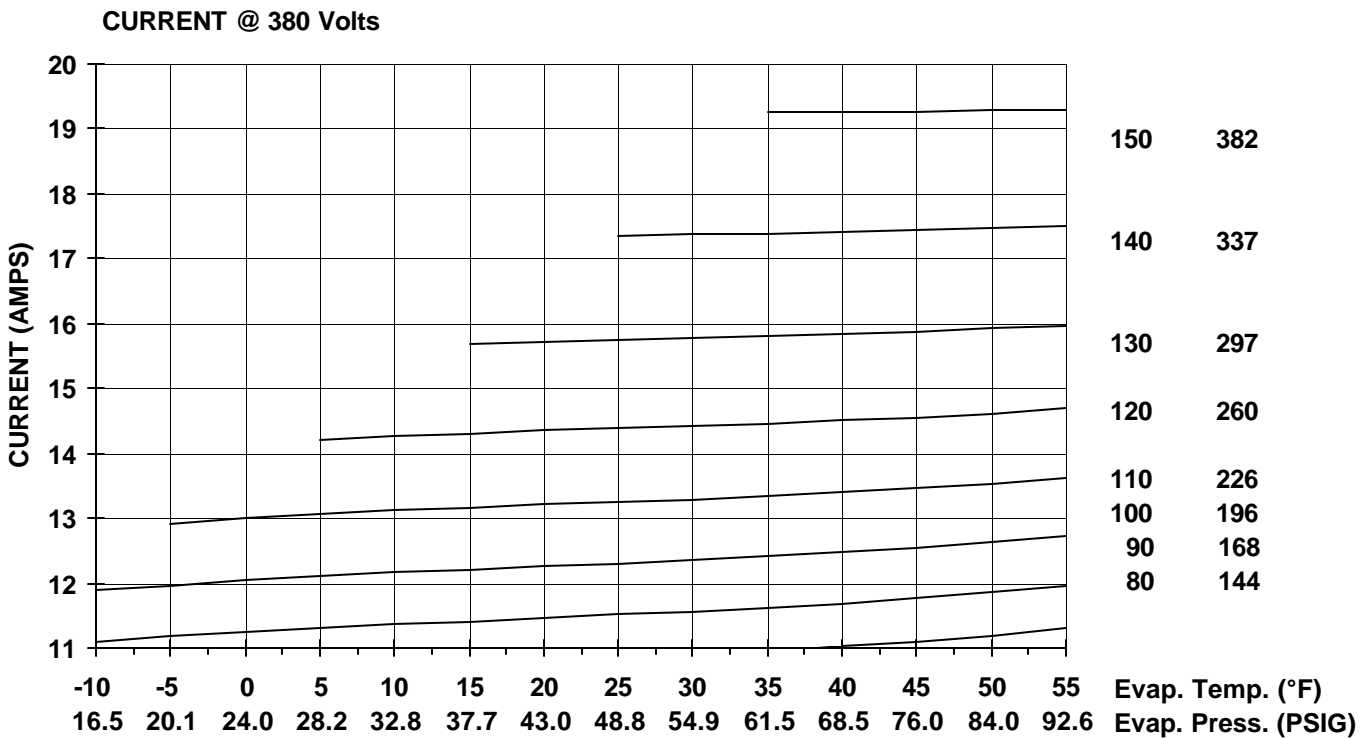
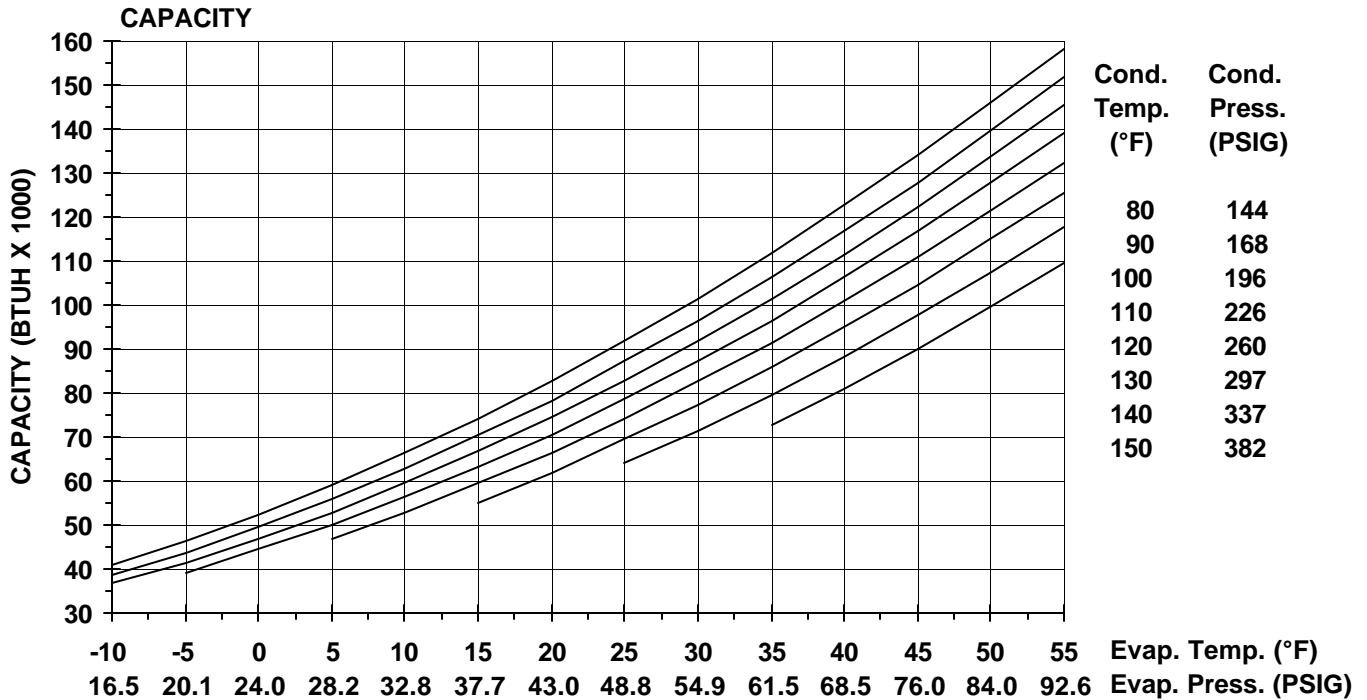
20° F Superheat
 15° F Sub Cooling
 95° F Ambient Air Over
 50 Hz Operation

ZR125KC

**3 PHASE
 HCFC-22**

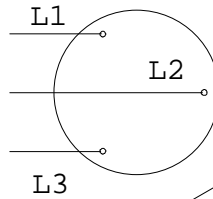
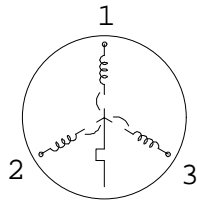
PLEASE NOTE:

Compressor requires a minimum of 24 hours "run-in" to attain specified performance.



USE COPPER CONDUCTORS ONLY. USE THIS EQUIPMENT ON A GROUNDED SYSTEM ONLY. USE MINIMUM 75C WIRE FOR AMPACITY DETERMINATION. INTERNAL MOTOR PROTECTION-ALLOW TIME FOR RESET. PRIMARY SINGLE PHASE FAILURE PROTECTION IS PROVIDED. CRANKCASE HEATER, WHEN APPLIED, MUST BE CONNECTED ONLY TO ITS RATED VOLTAGE. OVERCURRENT PROTECTION DEVICE RATING AND TYPE MUST BE IN ACCORDANCE WITH REGULATORY AGENCY END PRODUCT APPROVALS -SEE SYSTEM NAMEPLATE TO CORRECT IMPROPER MOTOR ROTATION. SWITCH ANY TWO SUPPLY LINES.

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005-0922-00

3-98

MOTOR
WINDING CONNECTION