

# CRNQ-0500-TFD

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



Production Status: Restricted sale - Contact your Copeland Representative.

## 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):	15000	19300
Power (Watts):	5000	4130
Current (Amps):	8.6	7.1
EER (COP):	2.99	4.66
Mass Flow (g/s):	95	107
Sound Power (dBA):	78 Ave 83 Max	
Vibration (mm(peak-peak)):	0.076 Ave 0.102 Max	

## Mechanical

Number of Cylinders: 2	CIR (cm <sup>3</sup> /Rev):	0.102
Bore Size (mm): 49.784	CFH (cm <sup>3</sup> /hr):	17738.98
Stroke(mm): 26.187		
Overall Length (mm): 289.052	Mounting Length (mm):	190.5
Overall Width (mm): 238.125	Mounting Width (mm):	190.5
Overall Height (mm): 409.702	Mounting Height (mm):	419.1
Suction Size (in):	7/8 Stub	
Discharge Size (in):	1/2 Stub	
Initial Oil Charge (liters):	2.07	
Oil Recharge (liters):	1.952	
Net Weight (kg):	41.277	

## Electrical

RLA: 9.6	MCC (Amps): 13.5	UL File No.: SA-2337
LRA-Low:	RPM:	UL File Date: 28-Dec-1984
LRA-High: 65.0	Max Operating Current:	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	380/460	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):	51200	65800
Power (Watts):	5000	4130
Current (Amps):	8.6	7.1
EER (Btu/Wh):	10.2	15.9
Mass Flow (lbs/hr):	755	850
Sound Power (dBA):	78.0 Ave	83.0 Max
Vibration (mils(peak-peak)):	3.0 Ave	4.0 Max

## Mechanical

Number of Cylinders:	2	CIR (in <sup>3</sup> /Rev):	6.221
Bore Size (in):	1.96	CFH (ft <sup>3</sup> /hr):	626.4464
Stroke(in):	1.031		
Overall Length (in):	11.38	Mounting Length (in):	7.5
Overall Width (in):	9.375	Mounting Width (in):	7.5
Overall Height (in):	16.13	Mounting Height (in):	16.5
Suction Size (in):	7/8	Stub	
Discharge Size (in):	1/2	Stub	
Initial Oil Charge (oz):	70		
Oil Recharge (oz):	66		
Net Weight (lbs):	91.0		

## Electrical

RLA:	9.6	MCC (Amps):	13.5	UL File No.:	SA-2337
LRA-Low:		RPM:		UL File Date:	28-Dec-1984
LRA-High:	65.0	Max Operating Current:		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>
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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):	61500	77200
Power (Watts):	6200	4870
Current (Amps):	9	7.6
EER (Btu/Wh):	9.9	15.9
Mass Flow (lbs/hr):	905	995
Sound Power (dBA):	80.0 Ave	85.0 Max
Vibration (mils(peak-peak)):	2.4 Ave	3.4 Max

## Mechanical

Number of Cylinders:	2	CIR (in <sup>3</sup> /Rev):	6.221
Bore Size (in):	1.96	CFH (ft <sup>3</sup> /hr):	756.0560
Stroke(in):	1.031		
Overall Length (in):	11.38	Mounting Length (in):	7.5
Overall Width (in):	9.375	Mounting Width (in):	7.5
Overall Height (in):	16.13	Mounting Height (in):	16.5
Suction Size (in):	7/8	Stub	
Discharge Size (in):	1/2	Stub	
Initial Oil Charge (oz):	70		
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Net Weight (lbs):	91.0		

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LRA-Half Winding:					

## Alternate Applications

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R-22 HCFC	50	3	380/420	Air Conditioning

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## Performance

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<u>RG(°C)/Liq(°C)</u>	<u>18.3/46.1</u>	<u>18.3/29.4</u>
Capacity (Watts):	18000	22600
Power (Watts):	6200	4870
Current (Amps):	9	7.6
EER (COP):	2.9	4.66
Mass Flow (g/s):	114	125
Sound Power (dBA):	80 Ave 85 Max	
Vibration (mm(peak-peak)):	0.061 Ave 0.086 Max	

## Mechanical

Number of Cylinders: 2	CIR (cm <sup>3</sup> /Rev):	0.102
Bore Size (mm): 49.784	CFH (cm <sup>3</sup> /hr):	21409.12
Stroke(mm): 26.187		
Overall Length (mm): 289.052	Mounting Length (mm):	190.5
Overall Width (mm): 238.125	Mounting Width (mm):	190.5
Overall Height (mm): 409.702	Mounting Height (mm):	419.1
Suction Size (in):	7/8 Stub	
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Initial Oil Charge (liters):	2.07	
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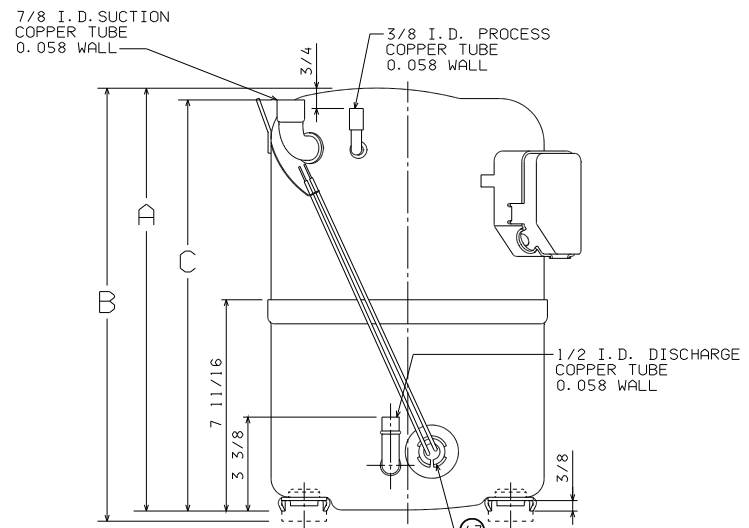
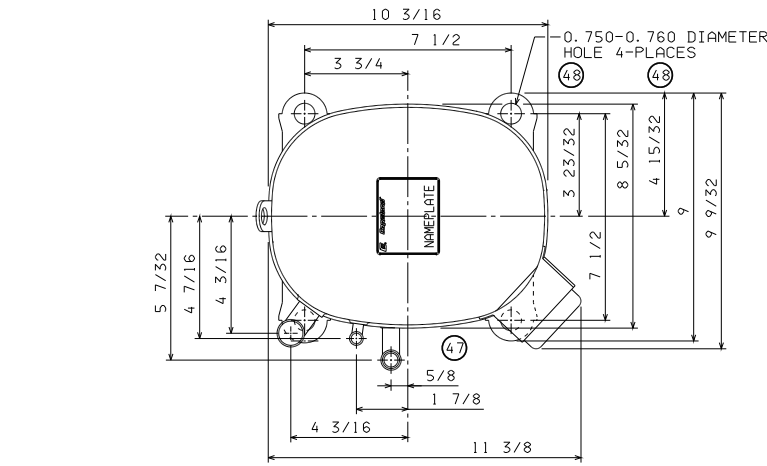
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RLA:	9.6	MCC (Amps):	13.5	UL File No.:	SA-2337
LRA-Low:		RPM:		UL File Date:	28-Dec-1984
LRA-High:	65.0	Max Operating Current:		CSA File No.:	LR3104C
LRA-Half Winding:					

## 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

MODEL NO.	A	B	C
CRN1-0500-TF5	16 1/8	16 1/2	15 11/16
CRN1-0500-TFD	16 1/8	16 1/2	15 11/16
CRP5-0450-PFV	15 7/8	16 1/4	15 1/2
CRP5-0450-TFD	15 7/8	16 1/4	15 1/2
CRP5-0450-TFE	15 7/8	16 1/4	15 1/2
CRP5-0450-TF5	15 7/8	16 1/4	15 1/2
CR60K5-PFV	15 7/8	16 1/4	15 1/2
CR60K5-TFD	15 7/8	16 1/4	15 1/2
CR60K5-TF5	15 7/8	16 1/4	15 1/2
CRN5-0500-PFV	16 1/8	16 1/2	15 11/16
CRN5-0500-TFD	16 1/8	16 1/2	15 11/16
CRN5-0500-TFE	16 1/8	16 1/2	15 11/16
CRN5-0500-TF5	16 1/8	16 1/2	15 11/16
CRT5-0450-PFV	15 7/8	16 1/4	15 1/2
CRT5-0450-TFD	15 7/8	16 1/4	15 1/2
CRT5-0450-TFE	15 7/8	16 1/4	15 1/2
CRT5-0450-TF5	15 7/8	16 1/4	15 1/2

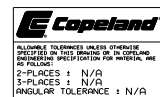


SPECIFICATIONS	
ES NO.	DESCRIPTION

DUE TO ACCUMULATED ASSEMBLY TOLERANCES THE LISTED COMPONENTS MAY VARY FROM THE MOUNTING HOLES AS TABULATED.	
DISCHARGE TUBE	± 0.125
SUCTION TUBE	± 0.187
PROCESS TUBE	± 0.187

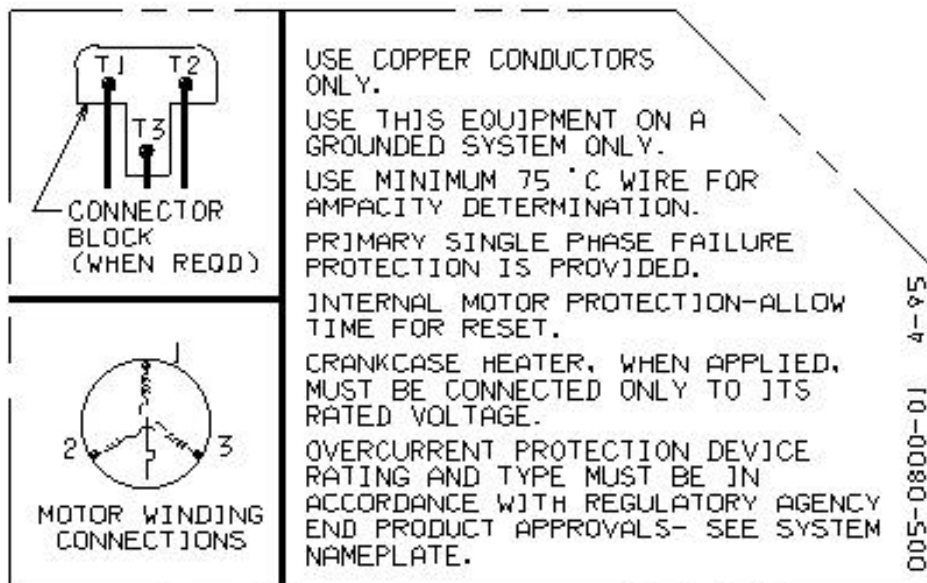
- NOTES:
1. TOLERANCES TO BE ±0.062 UNLESS OTHERWISE SPECIFIED.
  2. TUBE ENDS MUST BE PLUGGED.

32-1298-027	49	ADDED CR60K5-PFV, TFD, TF5	12-22-98	DEB	DEB
32-1195-043	48	DIMENSIONS, MODELS & CC HEATER REVISED	11-29-95	DEB	DEB
32-1289-007	47	REDRAWN, UPDATED HEATER WELL & NAMEPLATE	3-19-92	EG	EG
30-0180-022		RELEASE	1-15-80	DE	DE



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CHANGE NOTICE NO.	REV. NO.	DATE	REVISIONS	SCALE	SUPERSEDES DWG. NO.
	E C G	3-19-92	EG	NONE	497-2343-00-3
MATERIAL SPECIFICATIONS	DRAWN BY	CHECKED BY	APPROVED BY	DATE	REV. NO.
N/A		3-19-92		12-17-85	46
TITLE	DRAWING NUMBER		DWG	SH 1	
REF. DWG. WELD COMP. ASSM	497-2343-00		4	932E	



005-0800-01 4-95

Wiring Diagram 005-0800-01