

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^3/Rev):	0.102
Bore Size (mm):	49.784	CFH (cm^3/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

Evap(°F)/Cond(°F)	45/130	45/100
RG(°F)/Liq(°F)	65/115	65/85
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^3/Rev):	6.221
Bore Size (in):	1.96	CFH (ft^3/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

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Alternate Applications

Refrigerant	Frequency (Hz)	Phase	Voltage	Application
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Performance

Evap(°F)/Cond(°F)	45/130	45/100
RG(°F)/Liq(°F)	65/115	65/85
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^3/Rev):	6.221
Bore Size (in):	1.96	CFH (ft^3/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		
Oil Recharge (oz):	66		
Net Weight (lbs):	91.0		

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Alternate Applications

Refrigerant	Frequency (Hz)	Phase	Voltage	Application
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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^3/Rev):	0.102
Bore Size (mm):	49.784	CFH (cm^3/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
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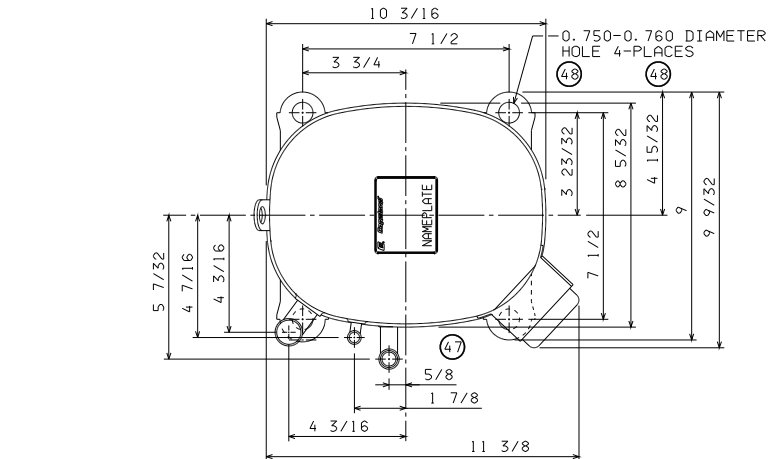
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LRA-Low:		RPM:		UL File Date:	28-Dec-1984
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LRA-Half Winding:					

Alternate Applications

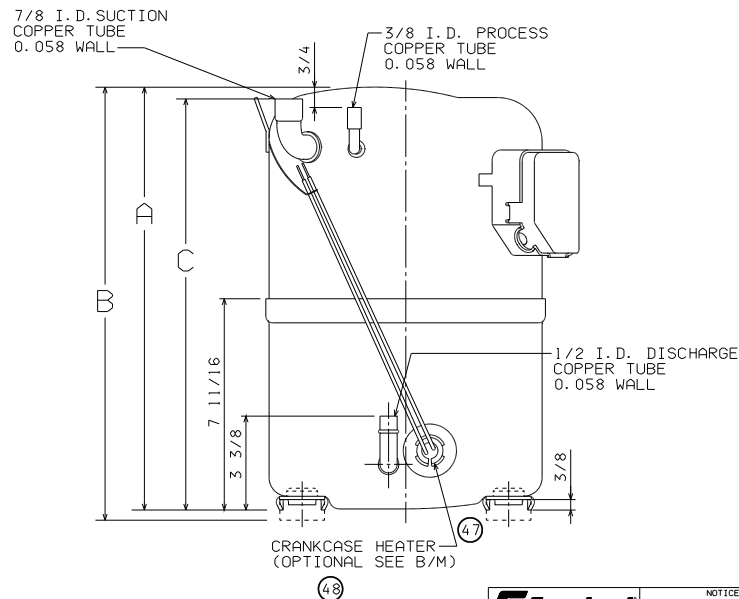
<u>Refrigerant</u>	<u>Frequency (Hz)</u>	<u>Phase</u>	<u>Voltage</u>	<u>Application</u>
R-22 HCFC	50	3	380/420	Air Conditioning

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



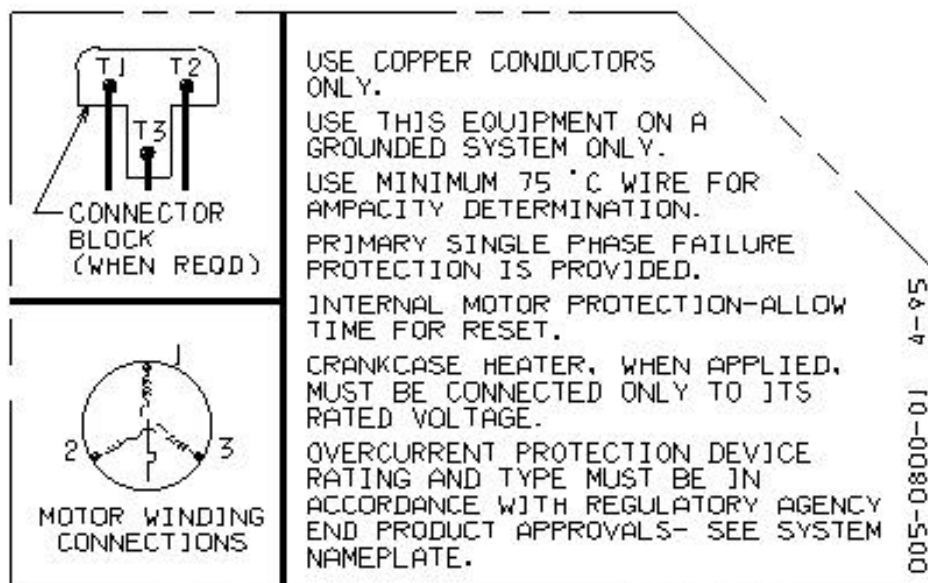
DUE TO ACCUMULATED ASSEMBLY TOLERANCES THE LISTED COMPONENTS MAY VARY FROM THE MOUNTING HOLES AS TABULATED.	
DISCHARGE TUBE	± 0.125
SUCTION TUBE	± 0.187
PROCESS TUBE	± 0.187

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



NOTICE
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32-1298-027	49	ADDED CR60K5-PFV, TFD, TF5	12-22-88	DEB	DEB
32-1195-043	48	DIMENSIONS, MODELS & CC HEATER REVISED	11-21-85	DEB	DEB
32-1289-007	47	REDRAWN, UPDATED HEATER WELL & NAMEPLATE	3-11-82	EG	EG
30-0180-022		RELEASE	1-16-80	DE	
CHANGE NOTICE NO.	REV. NO.	DATE	BY	CHK'D	
MATERIAL SPECIFICATIONS	DRAWN BY E C G	CHECKED BY EG	APPROVED BY	SCALE NONE	SUPERSEDES Dwg. NO. 497-2343-00-3
DATE 3-19-92	DATE 3-19-92	DATE	DATE	DATE	REV. NO. 46
N/A					
TITLE REF. DWG. WELD COMP. ASSM	DRAWING NUMBER 497-2343-00		SH 1	DWG 4	SIZE 1/2



005-0800-01 4-95

Wiring Diagram 005-0800-01