

CITY OF SACRAMENTO

1231 I Street, Sacramento, CA 95814

Permit No: 0405156

Insp Area: 1

Thos Bros: 297G5

Site Address: 1001 ALHAMBRA BL SAC

Parcel No: 007-0123-045

Sub-Type: REM

Housing (Y/N): N

CONTRACTOR

AIRCON ENERGY INC.
4234 N. FREEWAY BL.
SACRAMENTO, CA 95834

OWNER

U S BANK
1001 ALHAMBRA BL
SACRAMENTO CA 95816

ARCHITECT

Nature of Work: REPLACE 2 PACKAGE UNITS, NEW DISCONNECTS, A 10, 15 TON UNIT, SAME LOCATION.

CONSTRUCTION LENDING AGENCY: I hereby affirm under penalty of perjury that there is a construction lending agency for the performance of the work for which this permit is issued (Sec. 3097, Civ. C).

Lender's Name Lender's Address

LICENSED CONTRACTORS DECLARATION: I hereby affirm under penalty of perjury that I am licensed under provisions of Chapter 9 (commencing with section 7000) of Division 3 of the Business and Professions Code and my license is in full force and effect.

License Class License Number 293527 Date 4/15/04 Contractor Signature [Signature]

OWNER-BUILDER DECLARATION: I hereby affirm under penalty of perjury that I am exempt from the contractors License Law for the following reason (Sec. 7031.5, Business and Professions Code; any city or county which requires a permit to construct, alter, improve, demolish, or repair any structure, prior to its issuance, also requires the applicant for such permit to file a signed statement that he or she is licensed pursuant to the provisions of the Contractors License Law (Chapter 9 (commencing with Section 7000) of Division 8 of the Business and Professions Code) or that he or she is exempt therefrom and the basis for the alleged exemption. Any violation of Section 7031.5 by any applicant for a permit subjects the applicant to a civil penalty of not more than five hundred dollars (\$500.00);

I, as a owner of the property, or my employees with wages as their sole compensation, will do the work, and the structure is not intended or offered for sale (Sec. 7044, Business and Professional Code: The Contractors License Law does not apply to an owner of property who builds or improves thereon, and who does such work himself or herself or through his/her own employees, provided that such improvements are not intended or offered for sale. If, however, the building or improvement is sold within one year of completion, the owner-builder will have the burden of proving that he/she did not build or improve for the purpose of sale.)

I, as owner of the property, am exclusively contracting with licensed contractors to construct the project (Sec. 7044, Business and Professions Code: The Contractors License Law does not apply to an owner of property who builds or improves thereon, and who contracts for such projects with a contractor(s) licensed pursuant to the Contractors License Law).

I am exempt under Sec. B & PC for this reason:

Date Owner Signature

IN ISSUING THIS BUILDING PERMIT, the applicant represents, and the city relies on the representation of the applicant, that the applicant verified all measurements and locations shown on the application or accompanying drawings and that the improvement to be constructed does not violate any law or private agreement relating to permissible or prohibited locations for such improvements. This building permit does not authorize an illegal location of any improvement or the violation of any private agreement relating to location of improvements.

I certify that I have read this application and state that all information is correct. I agree to comply with all city and county ordinances and state laws relating to building construction and hereby authorize representative(s) of this city to enter upon the abovementioned property for inspection purposes.

Date 4/15/04 Applicant/Agent Signature [Signature]

WORKER'S COMPENSATION DECLARATION: I hereby affirm under penalty of perjury one of the following declarations:

I have and will maintain a certificate of consent to self-insure for workers' compensation as provided for by Section 3700 of the Labor Code, for the performance of work for which the permit is issued.

I have and will maintain workers' compensation insurance, as required by Section 3700 of the Labor Code, for the performance of the work for which this permit is issued. My workers' compensation insurance carrier and policy number are:

Carrier STATE FUND Policy Number 172732203 Exp Date 02/01/2004

(This section need not be completed if the permit is for \$100 or less) I certify that in the performance of the work for which this permit is issued, I shall not employ any person in any manner so as to become subject to the workers' compensation laws of California and agree that if I should become subject to the workers' compensation provisions of Section 3700 of the Labor Code, I shall forthwith comply with those provisions.

Date 4/15/04 Applicant Signature [Signature]

WARNING: FAILURE TO SECURE WORKER'S COMPENSATION COVERAGE IS UNLAWFUL AND SHALL SUBJECT AN EMPLOYER TO CRIMINAL PENALTIES AND CIVIL FINES UP TO ONE HUNDRED THOUSAND DOLLARS (\$100,000) IN ADDITION TO THE COST OF COMPENSATION, DAMAGES AS PROVIDED FOR IN SECTION 3706 OF THE LABOR CODE, INTEREST AND ATTORNEY'S FEE.

THIS PERMIT SHALL EXPIRE BY LIMITATION IF WORK IS NOT COMMENCED WITHIN 180 DAYS.

APPLICATION FOR COMMERCIAL BUILDING PERMIT

CITY OF SACRAMENTO
PLANNING & BUILDING DEPARTMENT
 1231 I Street, Suite 200 or 2101 Arena Bl., 200
 Sacramento, CA 95814 Sacramento, CA 95834
 (916) 264-5656, 1-866 EZ PERMIT or www.cityofsacramento.org

ACTIVITY #

Insp. Area

0405156

Applicant to complete all areas down to valuation

ADDRESS 1001 ALHAMBRA SAC, CA. Suite _____
PARCEL # 007-0123-045 293527

CONTACT
 Name GREG THORNE
 Street Address 1001 Alhambra
 City/State/Zip SAC, CA
 Phone _____ FAX _____
 E-mail: _____

LICENSED CONTRACTOR Lic No. # ~~293527~~
 Name AIRCON ENERGY
 Address _____
 City/State/Zip SAME
 Phone _____ FAX _____
 E-mail: _____

ARCHITECT/ENGINEER
 Name _____
 Address _____
 City/State/Zip _____
 Phone _____ FAX _____
 E-mail: _____

OWNER
 Name AIRCON ENERGY STE 100
 Address 4234 N. FREEWAY BLVD
 City/State/Zip SAC CA 95834
 Phone 916-922-2004 FAX 922-6481
 E-mail: _____

→ Will permittee have any employees on the jobsite? No Yes → **INSURANCE CO:** GENERAL LIABILITY
 → **WORKER'S COMPENSATION POLICY #** TCP2075790561 **EXPIRATION DATE:** 2/1/05

NATURE OF WORK IN DETAIL: REPLACE TWO PACKAGE UNITS W/NEW. H.V.A.C.
NEW DISCONNECTS (ELECT)

OCCUPANT/TENANT: US BANK **VALUATION: \$** 20,000.00

FLOOD STATUS										S.C.A.T.										
<input checked="" type="checkbox"/> BLDG		<input type="checkbox"/> SHELL		<input type="checkbox"/> APT		<input type="checkbox"/> TI		<input type="checkbox"/> REM		<input type="checkbox"/> SW		<input type="checkbox"/> FIRE		<input type="checkbox"/> ADD		<input type="checkbox"/> OTHER				
JOB DESCRIPTION				BLDG		MECH		PLUMB		ELEC		SITE		FIRE						
INSPECTION DISCIPLINES																				
# Stories	1st Flr Area.	Total Area	Use Zone	Occp Group	Const type	Fire Req. Y/N		Fed Code		Vio. File										
						SPR	ALARM					PW	UTIL							
B	L	P	M	E	F	S	S					D	PW	UTIL						

COMMENTS:
10-15 for

REGIONAL SANITATION FEES? Yes No **HEALTH DEPARTMENT?** Yes No
WATER FLOW TEST FOR NEW BUILDINGS (OR ADDITIONS)? Yes No

HEATING AND COOLING EQUIPMENT QUESTIONNAIRE

Applicant's name: TONY STOTT Phone: 922-2009

Project Address: 1001 ALHAMBRA SAC, CA. 95816

Please check the appropriate boxes. Only check a box if it accurately and completely describes your proposed work, otherwise leave boxes blank.

1.

GROUND-MOUNTED UNIT

- a. There is an existing ground-mounted unit.
- The existing unit shall be removed. The new unit shall be placed in the same location as the existing unit and shall not exceed the size of the existing unit.
 - The new unit differs in location from the existing unit.
 - The new unit is fully screened behind a solid fenced area and will not be visible from any street views.
 - Existing shrubs or buildings will screen the unit from being visible from any street views.
- b. There is no unit in the proposed location.
- The new unit will be fully screened behind a solid fenced area and will not be visible from any street views.
 - Existing shrubs or buildings will screen the unit from being visible from any street views.

2.

ROOF-MOUNTED UNIT

- a. There is an existing roof-mounted unit.
- The existing unit shall be removed. The new unit shall be placed in the same location as the existing unit and shall not exceed the size of the existing unit.
 - The new unit differs in location from the existing unit. The new unit shall be screened from street views by the building with no portion of the new unit being visible from any street views.
- b. There is no existing roof-mounted unit
- The new unit shall be screened from street views by the building with no portion of the new unit being visible from any street views

By signing below, the applicant certifies that this form accurately describes the proposed work.

Applicant's signature: Tony Stott Date: 4/5/04

For City Staff use only

Counter Staff [Signature]

- In a DR District Meets DR criteria? Yes No (route to DR staff)
- In a P area or listed (route to P staff)
- Not in DR/P area

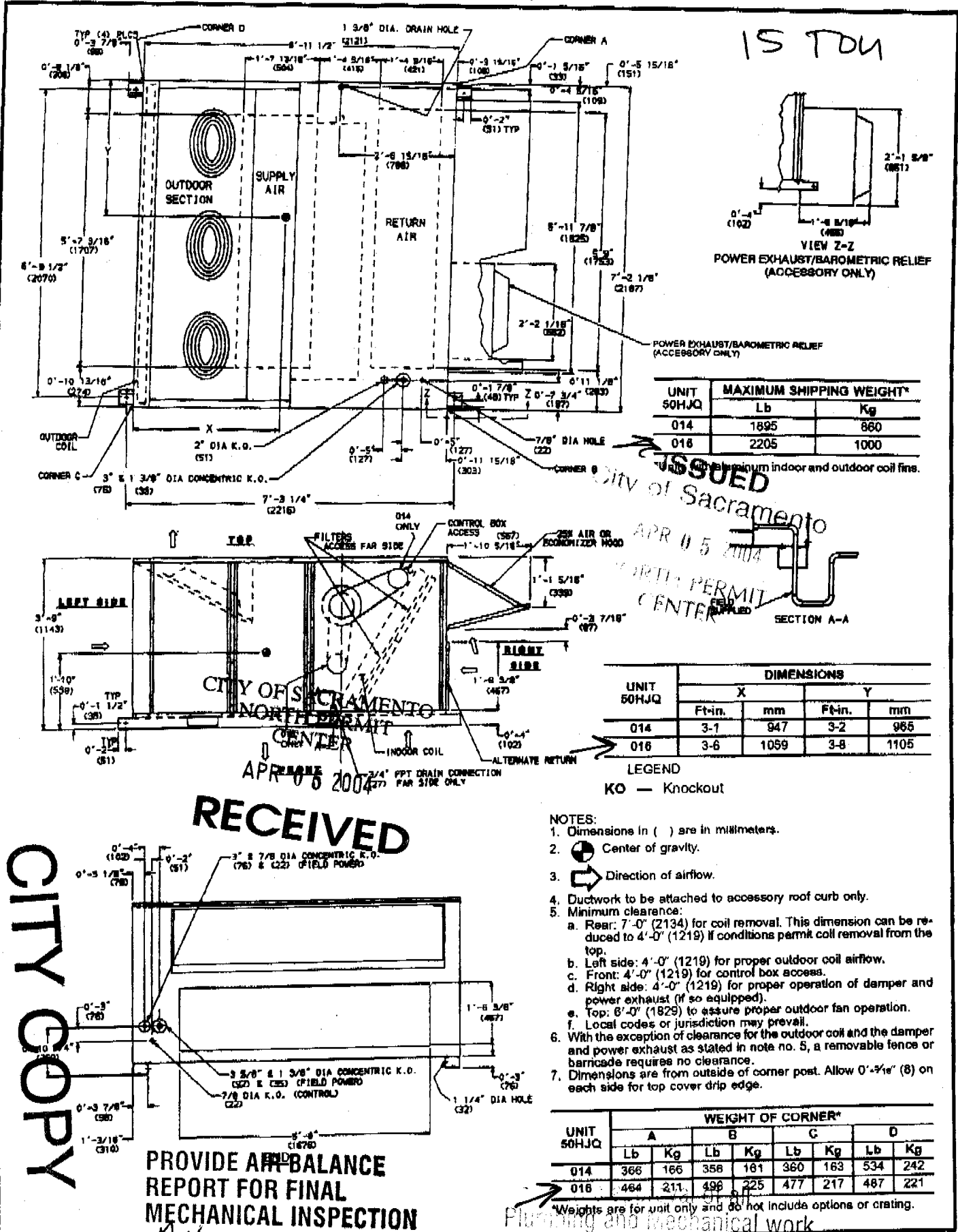
0405156

Base unit dimensions

Tony fax 922-6481



IS TOU



UNIT	MAXIMUM SHIPPING WEIGHT*	
	Lb	Kg
50HJQ		
014	1895	860
016	2205	1000

ISSUED
City of Sacramento
APR 15 2004
NORTH PERMIT CENTER
FIELD APPLIED

UNIT	DIMENSIONS			
	X		Y	
50HJQ	Ft-in.	mm	Ft-in.	mm
014	3-1	947	3-2	965
016	3-6	1059	3-8	1105

LEGEND
KO — Knockout

- NOTES:
- Dimensions in () are in millimeters.
 - Center of gravity.
 - Direction of airflow.
 - Ductwork to be attached to accessory roof curb only.
 - Minimum clearance:
 - Rear: 7'-0" (2134) for coil removal. This dimension can be reduced to 4'-0" (1219) if conditions permit coil removal from the top.
 - Left side: 4'-0" (1219) for proper outdoor coil airflow.
 - Front: 4'-0" (1219) for control box access.
 - Right side: 4'-0" (1219) for proper operation of damper and power exhaust (if so equipped).
 - Top: 8'-0" (1829) to assure proper outdoor fan operation.
 - Local codes or jurisdiction may prevail.
 - With the exception of clearance for the outdoor coil and the damper and power exhaust as stated in note no. 5, a removable fence or barricade requires no clearance.
 - Dimensions are from outside of corner post. Allow 0'-3/16" (8) on each side for top cover drip edge.

UNIT	WEIGHT OF CORNER*							
	A		B		C		D	
50HJQ	Lb	Kg	Lb	Kg	Lb	Kg	Lb	Kg
014	366	166	358	161	360	163	534	242
016	484	211	496	225	477	217	487	221

*Weights are for unit only and do not include options or crating.

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PROVIDE AIR BALANCE REPORT FOR FINAL MECHANICAL INSPECTION

4/5/04

Plumbing and mechanical work is subject to field inspection

0405757

Electrical data



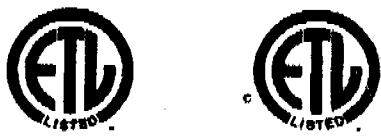
UNIT 50HZ/3	VOLTAGE (3 PH, 60 Hz)	VOLTAGE RANGE		COMPRESSOR				OUTDOOR FAN MOTOR		INDOOR FAN MOTOR		POWER EXHAUST		ELECTRIC HEAT*		POWER SUPPLY		DISCONNECT SIZING	
				No. 1		No. 2		Qty	FLA (ea)	Hp	FLA	FLA	LRA	FLA	KW	MCA	MOCP†	RLA	LRA
		Min	Max	RLA	LRA	RLA	LRA												
014	208/230	187	253	39.7	228	—	—	3	1.7	3.7	10.5/10.5	—	—	39/ 45 72/ 92 117/135	14/19 26/34 42/58	65/ 65 114/122 155/168 211/200	100/100 125/150 175/175 225/225	84/ 64 84/ 64 94/107 147/167	387/387
												4.6	18.8	39/ 45 72/ 82 117/135	14/19 26/34 42/56	70/ 70 119/126 159/173 218/205	100/100 125/150 175/175 225/225	89/ 69 89/ 69 100/112 152/173	406/406
	460	414	508	19.9	114	—	—	3	0.8	3.7	4.8	—	—	18 39 66	15 32 55	32 54 81 98	50 60 90 110	31 31 50 82	189
												2.3	6.0	18 39 66	15 32 55	34 57 83 100	50 70 90 110	34 34 53 84	195
	575	518	632	16.0	91	—	—	3	0.75	3.0	3.9	—	—	37 72	37 72	26 72	40 80	28 47	91
												2.1	4.8	37 75	37 75	28 75	40 80	28 50	96
016	208/230	187	253	28.2	160	28.2	160	3	1.7	5	15.8/15.8	—	—	72/ 82 117/135	26/34 42/56	84/ 84 174/187 231/219	110/110 125/200 250/225	80/ 89 101/112 153/173	499/485
												4.6	18.8	72/ 82 117/135	26/34 42/56	89/ 89 179/191 235/224	110/110 200/200 260/225	94/ 94 106/118 158/179	518/504
	460	414	508	14.1	80	14.1	80	3	0.8	5	7.9	—	—	39 66	32 55	42 91 108	50 100 110	44 54 85	238
												2.3	6.0	39 66	32 55	44 93 110	50 100 125	47 57 88	244
	575	518	632	11.3	64	11.3	64	3	0.75	5	6.0	—	—	50	50	34 96	40 100	35 64	165
												2.1	4.8	50	50	36 98	45 100	38 67	169

→
1576N

- LEGEND**
- FLA — Full Load Amps
 - HACR — Heating, Air Conditioning and Refrigeration
 - LRA — Locked Rotor Amps
 - MCA — Minimum Circuit Amps
 - MOCP — Maximum Overcurrent Protection
 - NEC — National Electrical Code
 - RLA — Rated Load Amps

*Heater capacity (kW) is based on heater voltage of 208 v, 240 v, 480 v and 600 v. If power distribution voltage to unit varies from rated heater voltage, heater kW will vary accordingly.
†Fuse or HACR circuit breaker. This is the maximum size permissible; smaller fuse size may be used where conditions permit.

- NOTES:**
1. In compliance with NEC requirements for multimotor and combination load equipment (refer to NEC Articles 430 and 440), the overcurrent protective device for the unit shall be fuse or HACR breaker. The Canadian units may be fuse or circuit breaker.
 2. MCA calculation for units with electric heaters over 50 kW = (1.25 x IFM amps) + (1.00 x heater FLA).



APPROVED PER 1999
NATIONAL ELECTRICAL CODE
AND CITY OF SACRAMENTO
AMENDMENTS
 4-5-04
ELECTRICAL DIVISION

The approval of all Electrical Work is subject to field inspections

ISSUED
 City of Sacramento
 APR 05 2004
 NORTH PERMIT CENTER
 CITY OF SACRAMENTO
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Base unit dimensions — 50HJQ008,012

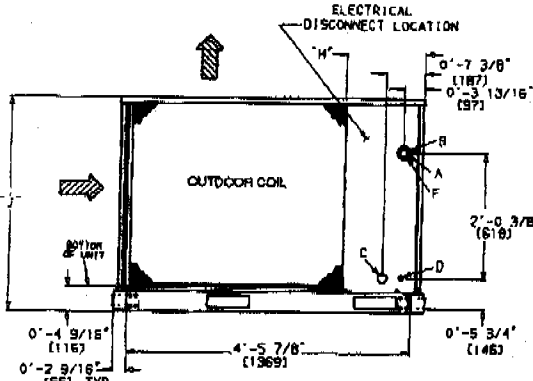


10 TON

UNIT	STD UNIT WEIGHT		CORNER WEIGHT (A)		CORNER WEIGHT (B)		CORNER WEIGHT (C)		CORNER WEIGHT (D)		"H"		"J"		"K"	
	Lb	Kg	Lb	Kg	Lb	Kg	Lb	Kg	Lb	Kg	FT.-in.	mm	FT.-in.	mm	FT.-in.	mm
50HJQ008	870	395	198	90	183	83	237	108	252	114	2'-0 7/8"	832	3'-5 5/8"	1050	2'-9 1/4"	856
50HJQ012	1000	454	231	105	214	97	269	122	286	130	2'-10 7/8"	885	4'-1 1/4"	1253	3'-0 3/4"	924

CONNECTION SIZES	
A	1 3/8" dia [35] field power supply hole
B	2 1/2" dia [64] power supply knockout
C	1 3/4" dia [44] charging port hole
D	7/8" dia [22] field control wiring hole
E	3/4" -14 NPT condensate drain
F	2" dia [51] power supply knockout

- NOTES:
- Dimensions in [] are in millimeters.
 - Center of gravity.
 - Direction of airflow.
 - Ductwork to be attached to accessory roof curb only.
 - Minimum clearance (local codes or jurisdiction may prevail):
 - Bottom to combustible surfaces (when not using curb) 0 in. on horizontal discharge units with electric heat 1 in. clearance to ductwork for 1 foot.
 - Outdoor coil, for proper airflow, 36 in. one side, 12 in. the other. The side getting the greater clearance is optional.
 - Overhead, 80 in. to assure proper outdoor fan operation.
 - Between units, control box side, 42 in. per NEC (National Electrical Code).
 - Between unit and ungrounded surfaces, control box side, 36 in. per NEC.
 - Between unit and block or concrete walls and other grounded surfaces, control box side, 42 in. per NEC.
 - Horizontal supply and return end, 0 inches.
 - Units may be installed on combustible floors made from wood or class A, B, or C roof covering material.
 - The vertical center of gravity is 1'-7 1/2" for 008, 2'-0" for 012 up from the bottom of the base rail.

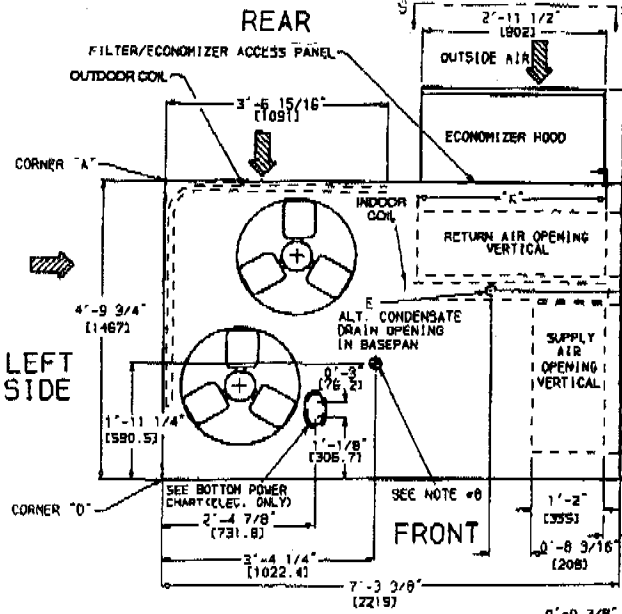


LEFT SIDE

BOTTOM POWER CHART, THESE HOLES REQ'D FOR USE WITH ACCESSORY PACKAGES — CRBTMPWRO01A00 (1/2", 3/4") OR CRBTMPWRO02A00 (1/2", 1 1/4")

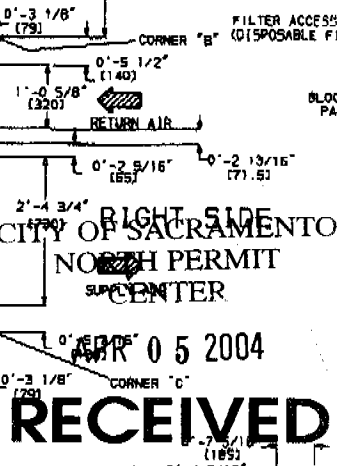
THREADED CONDUIT SIZE	WIRE USE	REQ'D HOLE SIZES (MAX.)
1/2"	24V POWER*	7/8" [22.2]
3/4"	POWER*	1 1/4" [28.4]
1 1/4"	POWER*	1 3/4" [44.4]

*Select either 3/4" or 1 1/4" for power, depending on wire size.

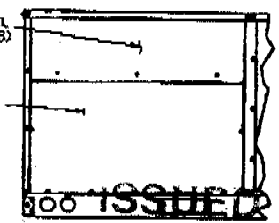


REAR

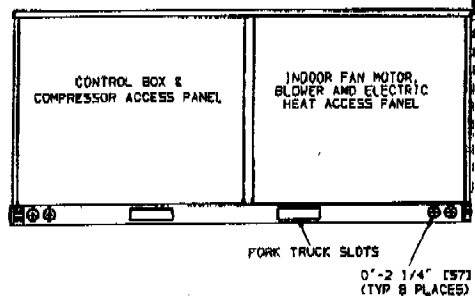
FRONT



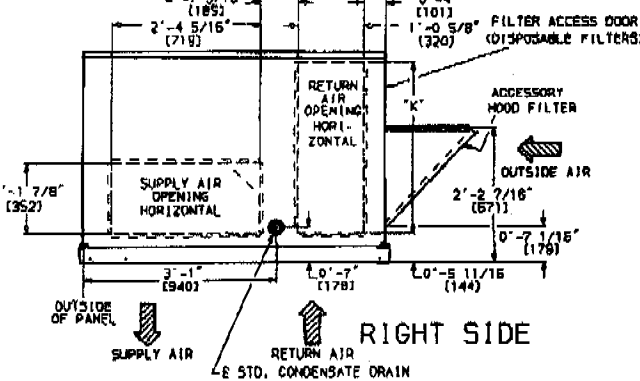
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FRONT



RIGHT SIDE

Electrical data (cont)



UNITS WITHOUT ELECTRICAL CONVENIENCE OUTLET (cont)

UNIT	NOMINAL VOLTAGE (V-Ph-Hz)	VOLTAGE RANGE		COMPRESSOR		OFM	IFM	ELECTRIC HEAT*		POWER SUPPLY		MINIMUM UNIT DISCONNECT SIZE	
		Min	Max	RLA	LRA	FLA	FLA	kW†	FLA	MCA	MOCP	FLA	LRA
50HJC008 (7½ Tons)	208/230-3-60	187	254	12.4	88.0	1.4	7.5	7.8/10.4	21.7/ 25.0	38.2/ 38.2	40/ 40**	40/ 40	242/242
								12.0/16.0	33.3/ 38.5	85.3/ 69.5	70/ 70	85/ 89	284/267
50HJC012 (10 Tons)	208/230-3-60	187	254	19.3	123.0	1.4	10.8	7.8/10.4	21.7/ 25.0	56.8/ 56.8	60/ 60**	60/ 60	337/337
								12.0/16.0	33.3/ 38.5	84.0/ 88.1	90/ 90	85/ 89	358/362††
50HJC008 (7½ Tons)	460-3-60	414	508	6.4	44.0	0.7	3.4	13.9	16.7	19.2	20**	20	121
								16.5	19.8	40.1	45**	39	138
50HJC012 (10 Tons)	460-3-60	414	508	10.0	62.0	0.7	4.8	27.8	33.4	44.0	45**	43	141
								33.0	39.7	61.0	70	59	155
50HJC008 (7½ Tons)	460-3-60	414	508	6.4	44.0	0.7	3.4	31.8/42.4	68.8/ 77.0	68.8/ 68.8	70	66	161
								37.6/50.0	104.4/120.3	187.3/177.1	90	78	171
50HJC012 (10 Tons)	460-3-60	414	508	10.0	62.0	0.7	4.8	16.5	19.8	28.7	30	30	170
								27.8	33.4	53.3	60	53	189
50HJC008 (7½ Tons)	460-3-60	414	508	6.4	44.0	0.7	3.4	39.0	39.7	70.5	80	80	203
								41.7	50.2	78.3	80	76	209
50HJC012 (10 Tons)	460-3-60	414	508	10.0	62.0	0.7	4.8	50.0	60.1	91.5	100	88	220††
								50.0	60.1	88.8	100	99	230††

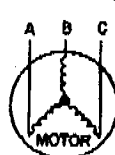
LEGEND AND NOTES FOR ELECTRICAL DATA TABLES

- LEGEND**
- FLA — Full Load Amps
 - HACR — Heating, Air Conditioning and Refrigeration
 - IFM — Indoor Fan Motor
 - LRA — Locked Rotor Amps
 - MCA — Minimum Circuit Amps
 - MOCP — Maximum Overcurrent Protection
 - NEC — National Electrical Code
 - OFM — Outdoor Fan Motor
 - RLA — Rated Load Amps

% Voltage Imbalance

$$= 100 \times \frac{\text{max voltage deviation from average voltage}}{\text{average voltage}}$$

Example: Supply voltage is 460-3-60



AB = 452 v
 BC = 464 v
 AC = 455 v

$$\text{Average Voltage} = \frac{452 + 464 + 455}{3}$$

$$= \frac{1371}{3}$$

$$= 457$$

Determine maximum deviation from average voltage:

- (AB) 457 - 452 = 5 v
- (BC) 464 - 457 = 7 v
- (AC) 457 - 455 = 2 v

Maximum deviation is 7 v.

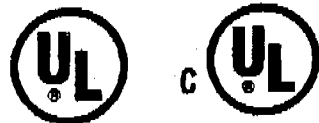
Determine percentage of voltage imbalance:

$$\% \text{ Voltage Imbalance} = 100 \times \frac{7}{457}$$

$$= 1.53\%$$

This amount of phase imbalance is satisfactory as it is below the maximum allowable 2%.

IMPORTANT: If the supply voltage phase imbalance is more than 2% contact your local electric utility company immediately.



- *Used to determine minimum disconnect per NEC.
- †Heater capacity (kW) is based on heater voltage of 208 v, 240 v, and 480 v. If power distribution voltage to unit varies from rated heater voltage, heater kW will vary accordingly.
- **Fuse or HACR circuit breaker.
- ††Optional disconnect switch cannot be used.
- ||Units have 2 outdoor fan motors.

- NOTES:**
1. In compliance with NEC requirements for multimotor and combination load and equipment (refer to NEC Articles 430 and 440), the overcurrent protective device for the unit shall be fuse or HACR breaker.
 2. **Unbalanced 3-Phase Supply Voltage**
 Never operate a motor where a phase imbalance in supply voltage is greater than 2%. Use the following formula to determine the percentage of voltage imbalance.

The approval of all Electrical Work is subject to field inspection by the CITY OF SACRAMENTO NORTH PERMIT CENTER

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 City of Sacramento

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