

CITY OF SACRAMENTO

1231 I Street, Sacramento, CA 95814

Permit No: 0511111

Insp Area: 3

Thos Bros: 317G4

Site Address: 5551 MARTIN LUTHER KING BL SAC

Parcel No: 022-0300-004

Sub-Type: REP

Housing (Y/N): N

CONTRACTOR  
INDOOR ENVIRONMENTAL SERVICES  
P O BOX 418194  
SACRAMENTO CA 95841

OWNER  
EQUILON ENTERPRISES, LLC  
1100 LOUISIANA  
HOUSTON, TX 77002

ARCHITECT

Nature of Work: C/O LIKE FOR LIKE 2-TON ROOF MOUNT HVAC UNIT

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.

X License Class B License Number 646794 Date 7/27/05 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 7000) 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 any 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.

X Date 7/27/05 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.

X 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 AN GUARANTEE & LIABILITY INS C Policy Number WSA184333100 Exp Date 07/01/2006

(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.

X Date 7/6/05 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.

PAID  
CITY OF SACRAMENTO  
7/27/05  
NORTH PERMIT  
CENTER

[Handwritten mark]

# APPLICATION FOR COMMERCIAL BUILDING PERMIT

CITY OF SACRAMENTO  
 PLANNING & BUILDING DIVISION  
 PERMIT SERVICES SECTION  
 (916) 808-2534 FAX: (916) 808-7046

ACTIVITY # <u>051111</u>	Insp. Area <u>3</u>
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Applicant **MUST** complete ALL Unshaded Areas

ADDRESS: 5551 Martin Luther King Suite:       
 PARCEL #: 004

<p style="text-align: center;"><b>CONTACT</b></p> Name: <u>Tracy Thaelfall c/o IES</u> Street Address: <u>5728 Garfield Ave, Ste 11</u> City/State/Zip: <u>Sacramento, CA 95841</u> Phone: <u>916-988-8808</u> E-Mail: <u>tthaelfall@ies-hvac.com</u>	<p style="text-align: center;"><b>LICENSED CONTRACTOR</b> Lic No. # <u>646794</u></p> Name: <u>Indoor Environmental Services</u> Street Address: <u>5728 Garfield Ave, Ste 11</u> City/State/Zip: <u>Sacramento, CA 95841</u> Phone: <u>916-988-8808</u> E-Mail: <u>tthaelfall@ies-hvac.com</u>
<p style="text-align: center;"><b>ARCHITECT/ENGINEER</b></p> Name: <u>NA</u> Street Address: <u>NA</u> City/State/Zip: <u>    </u> Phone: <u>    </u> E-Mail: <u>    </u>	<p style="text-align: center;"><b>OWNER</b></p> Name: <u>Equilon Enterprises, LLC</u> Street Address: <u>1100 Louisiana</u> City/State/Zip: <u>Houston, TX 77002</u> Phone: <u>    </u> E-Mail: <u>    </u>

⇒ Will permittee have any employees on the jobsite?  No  Yes ⇒ Insurance Co.: ULCO  
 ⇒ WORKER'S COMPANSATION POLICY # WC4376506 EXPRATION DATE: 07/06

NATURE OF WORK IN DETAIL: like for like HVAC unit changeout

OCCUPANT/TENANT: Able Maintenance VALUATION: \$6592

FLOOD STATUS:			S.C.A.T.								
JOB DISCRPTION			BLDG	SHELL	APT	TI( )	REM( )	SW	FIRE	ADD	OTH
INSPECTION DISCIPLINES			BLDG	MECH	PLUMB	ELEC		SITE	FIRE		
# Stories	1 <sup>st</sup> Flr Area	Total Area	Use Zone	Occp Group	Const type	Fire Req. Y / N		Fed Code	Vio. [H]	File [Quad]	
						SPR	ALARM				
<u>B</u>	<u>L</u>	<u>P</u>	<u>M</u>	<u>E</u>	<u>F</u>	<u>S</u>		<u>D</u>	<u>PW</u>	<u>UTIL</u>	
		<u>PS</u>	<u>ES</u>	<u>WTR</u>							

COMMENTS:     

REGIONAL SANITATION FEES?  Yes  No HEALTH DEPARTMENT:  Yes  No  
 WATER FLOW TEST FOR NEW BUILDINGS OR ADDITIONS?  Provided  Faxed



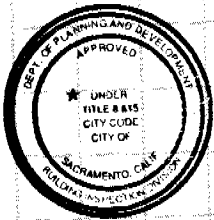
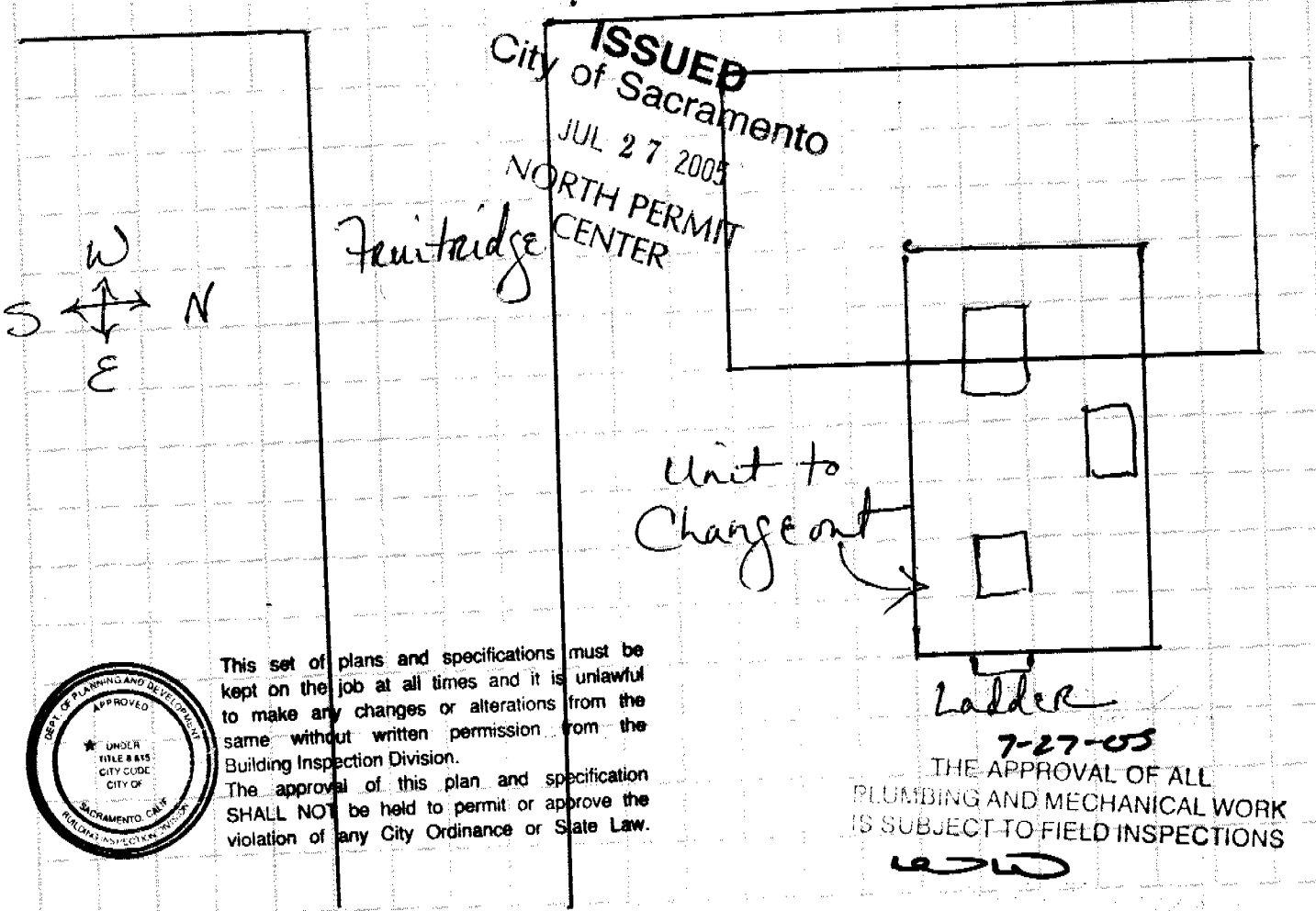
Architectural/Fittings

051111  
5551 Martin Luther King BL.

FIELD		Quantity	Item	Notes
Job No.	21.0871			
Job Name:	Shell Milk			
Sheet No.	1			
Date:				
Foreman:	Troy Dobson			
DATE REQUESTED:	7/27/05			
Date Received:				
Time Assigned:				
Assigned To:				
Time Completed:				
Completed:				

99 ↑

Martin Luther King Jr Blvd



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THE APPROVAL OF ALL PLUMBING AND MECHANICAL WORK IS SUBJECT TO FIELD INSPECTIONS

TAG: \_\_\_\_\_

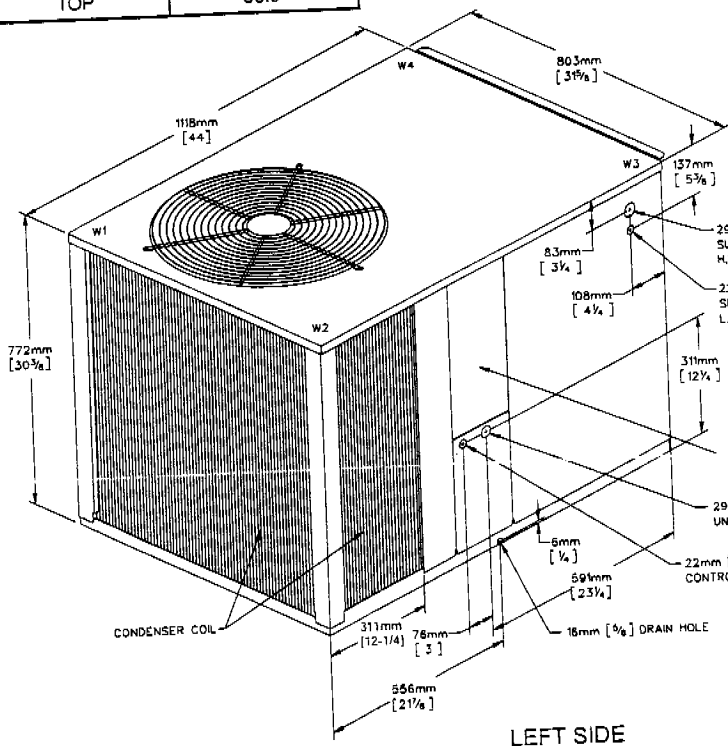
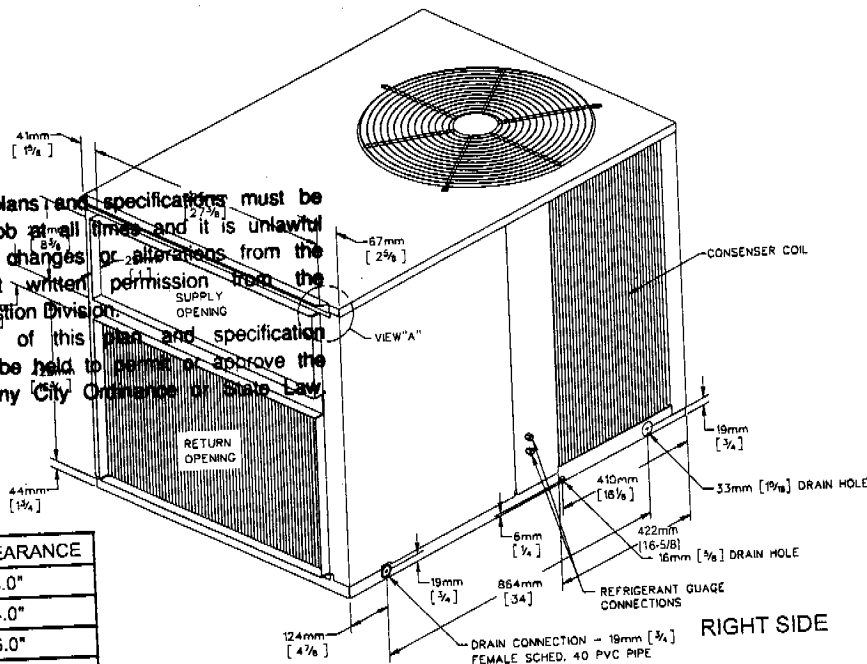
THE APPROVAL OF ALL PLUMBING AND MECHANICAL WORK IS SUBJECT TO FIELD INSPECTIONS

## 2 Ton Packaged Heat Pumps WCH024B100A



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INSTALLATION / SERVICE CLEARANCE	
BACK	48.0"
LEFT SIDE	24.0"
RIGHT SIDE	36.0"
TOP	36.0"



**APPROVED PER 1999 NATIONAL ELECTRICAL CODE AND CITY OF SACRAMENTO AMENDMENTS**  
7-27-05  
ELECTRICAL DIVISION

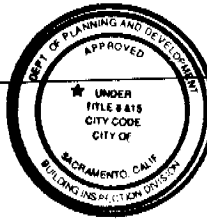
The approval of all Electrical Work is subject to field inspections

MODEL	APPROX. CORNER WTS - KG / LBS.				TOTAL WEIGHT KG/LBS.
	W1	W2	W3	W4	
WCH024B	35 [77]	32 [71]	28 [62]	30 [67]	126 [277]

From Dwg. 21D666031 Rev. 1

# Product Specifications

<b>MODEL</b>	<b>WCH024B100C</b>
<b>RATED VOLTS/PH/Hz</b>	208-230/1/60
<b>A.R.I. RATINGS (COOLING) ①</b>	
BTUH	25000
Indoor Air Flow (CFM)	800
Power Input (KW)	2.31
EER/SEER (BTU/Watt-Hr.) ②	10.80 / 12.40
Noise Rating No.(Decibels) ③	79
<b>Ratings (Heating) ①</b>	
(High Temp.) BTUH & C.O.P.	24400 - 3.50
Power Input (KW)	2.04
(Low Temp.) BTUH & C.O.P.	14000 - 2.25
Power Input (KW)	1.32
HSPF (BTU/Watt-Hr.) ④	8.0
<b>POWER CONNS. — V/PH/Hz</b>	208-230/1/60
Min. Brch. Cir. Ampacity ③	17.2
Br. Cir. — Max. (Amps)	25
Prot. Rtg. — Recmd. (Amps)	25
<b>COMPRESSOR</b>	DURATION™
No. Used — No. Speeds	1 - 1
Volts/PH/Hz	208-230/1/60
R.L. Amps — L.R. Amps	10.0 - 57
<b>OUTDOOR COIL — TYPE</b>	PLATE FIN
Rows / F.P.I.	1 / 22
Face Area (Sq. Ft.)	11.2
Tube Size (in.)	0.375
Refrigerant Control	TXV-B
<b>INDOOR COIL — TYPE</b>	PLATE FIN
Rows / F.P.I.	4 / 12
Face Area (Sq. Ft.)	3.44
Tube Size (in.)	0.375
Refrigerant Control	TXV-NB
Drain Conn. Size (in.)	3/4 FPT - PVC
Duct Connections	SEE OUTLINE DRAWING
<b>OUTDOOR FAN — TYPE</b>	PROPELLER
No. Used / Dia. (in.)	1 / 18
Type Drive / No. Speeds	DIRECT / 1
CFM @ a 0.0 in. W.G. ④	2500
No. Motors — HP	1 - 1/6
Motor Speed R.P.M.	1080
Volts/PH/Hz	208-230/1/60
FL Amps — L.R. Amps	1.6 - 3.3
<b>INDOOR FAN — TYPE</b>	CENTRIFUGAL
Dia. x Width (in.)	9 X 9
No. Used	1
Drive / Speeds (No.)	DIRECT / 2
CFM vs. in. W.G. ④	SEE FAN PERFORMANCE TABLE
No. Motors — HP	1 - 0.25
Motor Speed R.P.M.	1075
Volts/PH/Hz	208-230/1/60
FL Amps	1.8 - 3.7
<b>FILTER — FURNISHED?</b>	NO
Type Recommended	THROWAWAY
Min. Face Area ②	
Low Vel. (Sq. Ft.)	2.67
<b>REFRIGERANT</b>	
Charge (lbs. of R-22)	5 lbs., 8 oz.
<b>DIMENSIONS</b>	H X W X D
Crated (in.)	34 X 33.8 X 48
Uncrated	SEE OUTLINE DRAWING
<b>WEIGHT</b>	324.7 22.7



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- ① Rated in accordance with A.R.I. Standard 210/240.
- ② Calculated in accordance with A.R.I. Standard 270.
- ③ Calculated in accordance with currently prevailing Nat'l. Electric Code.
- ④ Standard Air — Dry Coil — Outdoor.

- ⑤ Standard Air — Wet Coil — Indoor.
- ⑥ Rated in accordance with D.O.E. test procedure. HSPF is at the minimum design requirement of Region IV.
- ⑦ Filters must be installed in return air system. Square footages listed above are based on 300 F.P.M. face velocity. If permanent filters are used size per manufacturer's recommendations with clean resistance of 0.05" W.C.



# Performance Data Cooling

WCH024B AT 800 CFM (CAPACITIES ARE NET IN BTUH/1000-INDOOR FAN HEAT DEDUCTED)

O.D. D.B.	I.D. W.B.	TOTAL CAP.	SENS. CAP. AT ENTERING D.B. TEMP.					COMPR. KW	APP. DEW PT.
			72	74	76	78	80		
85	59	22.7	18.3	19.9	21.4	22.8*	23.4*	2.10	46.2
	63	24.5	15.4	16.9	18.4	20.0	21.5	2.13	50.1
	67	26.5	12.1	13.6	15.2	16.7	18.3	2.16	54.2
	71	28.5	8.8	10.3	11.9	13.4	14.9	2.20	58.5
90	59	22.1	18.1	19.6	21.2	22.4*	22.9*	2.18	46.5
	63	23.9	15.1	16.7	18.2	19.7	21.3	2.21	50.4
	67	25.7	11.8	13.4	14.9	16.4	18.0	2.24	54.6
	71	27.3	8.5	10.0	11.6	13.1	14.6	2.27	58.9
95	59	21.5	17.9	19.4	20.9	21.9*	22.5*	2.26	46.9
	63	23.2	14.9	16.4	17.9	19.5	21.0	2.29	50.8
	67	25.0	11.6	13.1	14.6	16.2	17.7	2.32	55.0
	71	26.8	8.2	9.8	11.3	12.8	14.4	2.34	59.3
100	59	20.9	17.6	19.1	20.7	21.4*	21.9*	2.35	47.2
	63	22.5	14.6	16.1	17.7	19.2	20.7	2.37	51.2
	67	24.2	11.3	12.8	14.4	15.9	17.4	2.39	55.4
	71	26.0	7.9	9.5	11.0	12.5	14.1	2.42	59.7
105	59	20.3	17.3	18.9	20.4*	20.9*	21.4*	2.43	47.6
	63	21.9	14.3	15.8	17.4	18.9	20.5	2.45	51.5
	67	23.5	11.0	12.5	14.1	15.6	17.1	2.47	55.8
	71	25.1	7.6	9.2	10.7	12.2	13.8	2.49	60.1
115	59	19.0	16.8	18.4	19.4*	19.8*	20.3*	2.62	48.3
	63	20.5	13.8	15.3	16.8	18.4	19.9	2.62	52.3
	67	21.9	10.4	12.0	13.5	15.1	16.6	2.62	56.5
	71	23.5	7.1	8.6	10.1	11.7	13.2	2.63	60.9

CORRECTION FACTORS - OTHER AIRFLOWS  
(MULTIPLY OR ADD AS INDICATED)

AIRFLOW	700	800
TOTAL CAP	X0.98	X1.00
SENS. CAP	X0.94	X1.00
COMPR. KW	X0.99	X1.00
A.D.P.	-1.4	0.0

VALUES AT ARI RATING CONDITIONS

TOTAL NET CAPACITY = 25000 BTUH  
 AIRFLOW = 800 CFM  
 APP. DEW PT. = 55.0 DEG. F  
 COMPRESSOR POWER = 1815 WATTS  
 I.D. FAN POWER = 250 WATTS  
 O.D. FAN POWER = 250 WATTS  
 S.E.E.R. = 12.40 BTUH/WATT  
 E.E.R. = 10.80 BTUH/WATT  
 \* DRY COIL CONDITION (TOTAL CAPACITY = SENSIBLE CAPACITY)  
 TOTAL CAPACITY, COMP. KW AND APP. DEW PT. ARE VALID ONLY FOR WET COIL  
 ALL TEMPERATURES IN DEGREES F.

# Performance Data Heating

WCH024B AT 800 CFM

O.D. TEMP. F.	HEATING CAPACITY (BTUH/1000) AT INDICATED INDOOR DRY BULB TEMP.				TOTAL POWER IN KILOWATTS AT INDICATED INDOOR DRY BULB TEMP.				CORRECTION FACTORS - OTHER AIRFLOWS (VALUE AT 800 CFM TIMES CORR. FACTOR = VALUE AT NEW AIRFLOW)
	60	70	75	80	60	70	75	80	
-18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	AIRFLOW 700 800
-13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	HEATING CAP. X0.99 X1.00
-8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	COMPR. KW X1.02 X1.00
-3	7.26	7.07	6.97	6.88	1.58	1.68	1.72	1.77	VALUES AT ARI RATING CONDITIONS OF:
2	9.04	8.80	8.68	8.56	1.62	1.71	1.76	1.81	70&47/43 (HIGH TEMP. POINT)
7	10.8	10.5	10.4	10.2	1.65	1.75	1.80	1.85	70&17/15 (LOW TEMP. POINT)
12	12.6	12.3	12.1	11.9	1.69	1.79	1.84	1.89	AIRFLOW = 800 CFM
17	14.4	14.0	13.8	13.6	1.72	1.83	1.88	1.93	HEATING CAP. (HIGH TEMP.) = 24400 BTUH
22	15.7	15.2	15.0	14.8	1.75	1.86	1.91	1.97	HEATING CAP. (LOW TEMP.) = 14000 BTUH
27	16.9	16.4	16.2	16.0	1.79	1.90	1.95	2.00	COMPR. POWER (HIGH TEMP.) = 1547 WATTS
32	18.2	17.7	17.4	17.2	1.82	1.93	1.99	2.04	COMPR. POWER (LOW TEMP.) = 1325 WATTS
37	19.4	18.9	18.6	18.3	1.85	1.97	2.02	2.08	HSPF (MIN DHR) = 8.00
42	20.7	20.1	19.8	19.5	1.89	2.00	2.06	2.12	COEFF. OF PERF. (HIGH TEMP.) = 3.50
47	25.1	24.4	24.0	23.7	1.93	2.05	2.11	2.16	COEFF. OF PERF. (LOW TEMP.) = 2.26
52	26.9	26.1	25.7	25.4	1.96	2.08	2.14	2.20	OUTDOOR FAN POWER = 250 WATTS
57	28.7	27.9	27.5	27.0	2.00	2.12	2.18	2.24	INDOOR FAN POWER = 250 WATTS
62	30.5	29.6	29.2	28.7	2.03	2.16	2.22	2.28	
67	32.3	31.3	30.9	30.4	2.07	2.20	2.26	2.32	
72	34.1	33.1	32.6	32.1	2.10	2.23	2.30	2.36	



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# Fan Performance Data

INDOOR FAN PERFORMANCE WCH024B				
AIRFLOW CFM**	HIGH SPEED		LOW SPEED	
	PRESS in. w.g.	PWR WATTS	PRESS in. w.g.	PWR WATTS
500	0.93	185	0.78	162
600	0.83	192	0.67	188
700	0.75	200	0.57	214
800	0.66	225	0.46	220
900	0.56	265	0.32	240
1000	0.47	300	0.13	265
1100*	0.36	340	0.00	290
1200	0.25	380	—	—

FACTORY SETTING AT LOW SPEED  
 \*WATER BLOW-OFF LIMIT  
 \*\*WET COIL, NO FILTER, NO HEATER.  
 SEE PRESSURE DROP TABLES FOR INSTALLED  
 ELECTRIC HEATER.



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## Electric Heater Data

### Supplementary Heaters

Unit Model No.	Capacity at 208V		Capacity at 240V		Rated Voltage	No. of Circuits	Amps Per Circuit at 208V	Amps Per Circuit at 240V	Ordering Model Number
	Kw	Btuh	Kw	Btuh					
WCH024B1	4.33	14800	5.76	19600	208/240/1/60	1	20.8	24	BAYHTRC106A
	6.12	20900	8.16	27800	208/240/1/60	1	29.4	34	BAYHTRC108A
	7.93	27000	10.56	36000	208/240/1/60	1	38.1	44	BAYHTRC111A
	8.65	29500	11.52	39300	208/240/1/60	1	41.6	48	BAYHTRC112A

NOTE:  
 Ⓢ Heater has a fuse box factory provided.

The approval of all Electrical Work is subject to field inspections

# Mechanical Specifications

## General

All units are factory assembled, piped, internally wired and fully charged with R-22. Units are UL listed and carry a UL label. All units are factory run-tested to check cooling and heating operation, defrost operation, fan and blower rotation and control sequence. Units shall be designed to operate at ambient temperatures between 11.5°F and 45°F in cooling mode (as shipped) and between 75°F and -20°F in heating mode. Cooling and heating performances are rated in accordance with ARI standards. Units are designed for either rooftop or ground level installation.

## Unit Casing

All components are mounted in a weather-resistant steel cabinet with a baked-on enamel finish. Access panels are provided for unit controls, indoor coil and supply air fan. Top covers shall be removable for access or installation of electric heaters and outdoor fan and compressor. Indoor air section is completely insulated with fireproof, permanent, odorless glass fiber material. Knockouts are provided for utility and control connections. Drain connections are provided to accommodate indoor coil water runoff.

## Compressor

Hermetically sealed, high efficiency Duration™ compressor designed for heat pump duty. Internal line break over current and over temperature protection, high and low pressure protection, and crankcase heaters are standard.

## Refrigerant Circuit

All units have thermostatic expansion valve refrigerant control for heating and cooling operation. Service pressure tap ports, check valves, solenoid-operated reversing valve, and refrigerant line filter driers are standard.

## Indoor and Outdoor Coil

Indoor and outdoor coils are constructed of aluminum plate fins mechanically bonded to 0.375-inch seamless copper tubing.

## Outdoor Fan

One, direct-drive, statically and dynamically balanced propeller fan is used in a top discharge configuration. Permanently lubricated weatherproof motors have built-in thermal overload protection.

## Indoor Fan

Forward-curved, centrifugal-type fan with variable speed, direct-drive motor. Motor shall be permanently lubricated and has built-in overload protection.

## Demand Defrost Control

Microcomputer logic is used to sense the need for defrost and permits defrost cycles only when coil icing conditions begin to cause serious heat pump capacity reductions.

## Accessories

**Supplemental Electric Heater**-Heater module shall mount in unit discharge air passage. Each heater assembly includes automatically resetting heat limit switches for thermal protection. A polarized plug provides connection to unit low voltage control wiring.

**Indoor Thermostat**-Two-stage heating, one-stage cooling thermostat is available in either manual or automatic changeover. Thermostat provides automatic or continuous fan operation and includes outdoor thermistor, emergency heat switch with indicator light, and auxiliary heat indicator light.

**Low Ambient Control Kit**-Provides low ambient cooling operation to 0°F.



This set of plans and specifications must be kept on the job at all times and it is unlawful to make any changes or alterations from the same without written permission from the Building Inspection Division.

The approval of this plan and specification SHALL NOT be held to permit or approve the violation of any City Ordinance or State Law.

Since American Standard has a policy of continuous product and product data improvement, it reserves the right to change specifications and design without notice.

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