

CITY OF SACRAMENTO
1231 I Street, Sacramento, CA 95814

Permit No: 0511726

Insp Area: 4

Thos Bros: 277J6

Site Address: 2511 RIO LINDA BL SAC

Parcel No: 265-0291-011

Sub-Type: REP

Housing (Y/N): N

CONTRACTOR
OWNER BUILDER

OWNER
SINGH BALWINDER
1559 FAULKNER DRIVE
ROSEVILLE, CA 95747

ARCHITECT

Nature of Work: C/O 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.

License Class _____ License Number 0 _____ Date _____ Contractor 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 8/5/05 _____ Owner Signature *[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.

Date 8/5/05 _____ 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.

____ 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 _____ Policy Number _____ Exp Date _____

(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 these provisions.

Date 8/5/05 _____ 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.

[Handwritten signature]

CHARDOUL & ASSOCIATES
CONSULTING ENGINEERS

FAN TEST SHEET

Page: 1 Date: 08/26/05
Area Served: 2511 Rio Linda Blvd (Retail Clothing Store)

Tech: JC
Unit: HP-1

Installed Equipment
HP-1 Goodman Model PHK-048-IF Serial Number: 05077087267
Voltage: 208 VAC 1 phase

Motor Nameplate Data	Scheduled Blower CFM
MFG: NL	MFG: NL
HP: 0.75 Voltage: 208 FLA: 13.8	Size (In): 11 X10
PH: 1 SF: TP RPM: 1075	Nominal CFM @ 0.5" SP: 1560
Drive: Direct	Shaft: Fixed
Speed: High	

SUPPLY DIFFUSERS AND RETURN GRILLES

Room Number	Outlet Number	Diffuser/Grille Size (Inches)	Effective Area	Tested Values
1	1	12 X 12		550 CFM
	2	14" Ø		500 CFM
	3	12 X 12		460 CFM
Total Supply CFM				1510 CFM
Return		20 X 20 FG		1190 CFM
Total Return CFM				1190 CFM

Traverse Total: NT

Outside Air: The outside air inlet was not configured to allow a direct read using the flow hood. The volume of outside air was estimated by subtracting the return air value from the supply air value:

$$1510 \text{ CFM (Supply Air)} - 1190 \text{ CFM (Return Air)} = 320 \text{ CFM (Outside Air)}$$



7728 Cottingham Way Citrus Heights, CA 95610 • 916-722-7883 • 916-726-4328 FAX

Email: chardoul@psyber.com

CHARDOUL & ASSOCIATES

CONSULTING ENGINEERS

**AIR DISTRIBUTION SYSTEM TEST FOR
2511 RIO LINDA BLVD. SACRAMENTO, CA**

The test took place at 10:00 AM on August 26, 2005 and lasted approximately one hour. The subject unit is a Goodman Packaged Heat Pump Model PHK-048-IF, Serial # 0507087267. The unit is configured for side shot distribution.

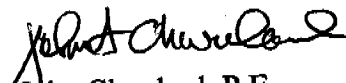
Ductwork is roof mounted 14"Ø exposed rigid sheet metal sleeve with 12" Ø insulated flex duct within. Nominal air supply for the unit is 1600 CFM.

The system has three supply drops and one return inlet with an outside air damper to introduce ventilation air into the space. The supply drops were observed to be 12" X12" modular core diffuser (two) and 14" Ø concentric cone (one). The return was observed to be a 20" X 20" hinged filter grille.

Air flow was tested using a ALNOR Flow Hood Model # Balometer, Serial Number 14538 at standard settings. Supply air volume was tested to be 1510 CFM, Return air volume was tested to be 1190 CFM. The outside air inlet was found to be approximately ¾ open and was not configured to allow a direct read using the flow hood, so a calculated estimate of Outside air volume was developed instead by subtracting the return air value from the supply air value. This value was found to be 320 CFM. At 15 CFM per occupant, the system is currently set to handle just over 21 occupants.

Test results are tabulated on the enclosed FAN TEST SHEET.

Submitted on August 26, 2005


John Chardoul, P.E.
Principal Engineer
M27183



7728 Cottingham Way Citrus Heights, CA 95610 • 916-722-7883 • 916-726-4328 FAX
Email: chardoul@psyber.com