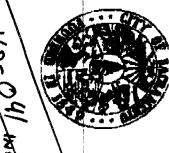
(CITY OF SACRAMENTO			Permit No:	0516153	
1	231 I Street, Sacramento, CA 95	814		Insp Area:	4	The second second
				Thos Bros:	257J7	
	Site Address: 735 SANTA ANA AV S	SAC		Sub-Type:	RES	
	Parcel No: 226-0162-041	SAC		Housing (Y/N):	- '	
	CONTRACTOR	OWNER		<u>ARCHITECT</u>		
	'ALENTINE HEATING AND AIR 349 NORTH AV	JOHNSON JEFFERSON L 735 SANTA ANA AV				
S	ACRAMENTO CA	SACRAMENTO, CA 95838				
	lature of Work: PAPERLESS- HVAC of	change out, heat pump roof	mounted package	. SMOKE DETEC	TORS REQ	UIRED as p
. 2	001 CBC.					
	CONSTRUCTION LENDING AGENCY: It is every for which this permit is issued (Sec. 3097, Circulation).		jury that there is a cons	truction lending agency	for the perform	ance of
L	ender's Name	Lender's Addı	ress	·		
ī	ICENSED CONTRACTORS DECLARAT	ION: I hereby affirm under ne	nalty of periory that	Nam licensedfundet n	rovisions of Ch	 anter 9
(3	commencing with section 7000) of Division 3 of the B	Business and Professions Code and	my license is in full for	rce and effect.		
L	icense Class 2-20 License Number 745634	_ Date 10 - 13-05 Con	tractor Signature 💆	and the		>
. (OWNER-BUILDER DECLARATION: I here	by affirm under penalty of perjury	that I am exempt from	the contractors Licens	e Law for the fo	 llowing
	eason (Sec. 7031.5, Business and Professions Code; a rior to its issuance, also requires the applicant for sucl					
Ĺ	icense Law (Chapter 9 (commencing with Section 70	000) of Division 8 of the Business	and Professions Code)	or that he or she is ex-	empt therefrom	and the
	asis for the alleged exemption. Any violation of Secundred dollars (\$500.00);	tion 7031.5 by any applicant for a	permit subjects the ap	plicant to a civil penal	y of not more th	an five
ia - 5	I, as a owner of the property, or my employees	with wages as their sole compens	ation, will do the work,	and the structure is no	t intended or off	eredfor
	ale (Sec. 7044, Business and Professional Code: The hodoes such work himself or herself or through his/	Contractors License Law does no	t apply to an owner of	property who builds or	improves there	on, and
tl	ne building or improvement is sold within one year of					
	ne purpose of sale.)		100			
ī	he Contractors License Law does not apply to an own	ntracting with licensed contractors ner of property who builds or impr	to construct the bear	(6 to 7)44, Business contracts for such projects	and Professions ects with a contr	Code:
li	he Contractors License Law does not apply to an own censed pursuant to the Contractors License Law).			_		1811
. 	I am exempt under Sec. B	& PC for this reason:		3 2005		
E	pateO	wner Signature	DOWNTOV	VN PERMIT		
I	N ISSUING THIS BUILDING PERMIT, the appl	licant represents, and the city relie	s on the representation	of Enapplicant, that t	he applicant ver	rified all
៊ុក	neasurements and locations shown on the application rivate agreement relating to permissible or prohibited	n or accompanying drawings and	that the improvement	to be constructed does	not violate any	law or
	nprovement or the violation of any private agreement			does not admorate an	megar rocation	or any
	certify that I have read this application and state that					lating to
þ	uilding construction and herby authorize representativ	ve(s) of this city to enter upon the a	bdvementioned propert	y for inspection purpos	es	
Ε	Date = 10 - 13 - 05	pplicant/Agent Signature	May 1.			
7	VORKER'S COMPENSATION DECLARA					
p	I have and will maintain a certificate of consener of work for which the permit is issued.	nt to self-insure for workers' comp	ensation as provided for	or by Section 3700 of t	he Labor Code,	for the
	Lhave and will maintain workers' compensation	n insurance as required by Section	3700 of the Labor Co	de for the performanc	e of the work fo	rwhich
tl	nis permit is issued. My workers' compensation insura			20, 101 110 postosmuno	0 01 110 110111 10	E- PF
_	Carrier NO EMPLOYEES	Policy Number		Exp Date		
Γ	(This section need not be completed if the perm	nit is for \$100 or Jess) I centify that	in the performance of	the work for which this	permit is issued	i, Ishali
	ot employ any person in any manner so as to become orkers' compensation provisions of Section 3700 of the	subject to the vorkers' compensat		and agree that if I should		
	10 12 0 C	pplicant Signature V	7.16	ati		10 10 10 10 10 10 10 10 10 10 10 10 10 1
				ID CHAIL CURING	AN EL MY	
C	VARNING: FAILURE TO SECURE WORKER'S PRIMINAL PENALTIES AND CIVIL FINES UP	TO ONE HUNDRED THOUSA	ND DOLLARS (\$10	0,000) IN ADDITION	TO THE CO	ERTO ST OF
C	OMPENSATION, DAMAGES AS PROVIDED FOR	R IN SECTION 3706 OF THE LA	BOR CODE, INTERES	ST AND ATTORNEY'S	S FEE.	



TOB ADDRESS:

- CONTACT PERSON.

MANUEL

SUS

CAVE DINT

SCONTRACT PRICES (1300) OC

PAXED PREMIT APPLICATION (certain restrictions apply) DEVELOPMENT SERVICES DIVISION CITY OF SACRAMENTO

DATE: 10-10-05

Fax # 916-264-1901

735 Sonta AN ORDER TO PROCESS THAT REQUEST, ALL THE POLLOWING INFORMATION MUSIC RE BIOMRETTOWN PERMIT Note: Work sweeted designs a Building Parack is inseed self ha subject to even for Passed required most be received in this agility by 3.595 p.m. to be precessed the following treat OF SACRAMENTO Note: Companyones must have a current conflicate of Worker's Companyonian Insurtation OF SACRAMENTO OCT 1 3 2005 CENTER

DESCRIPTION OF WORK: Chare NATURE OF REQUEST: ONTORE [CI REDUCET (malading die) EUOUSI Design Review approved may be required in sertals areas. City/State/Zip: 1515 Phone: Ollo Address: Property Owner. SERVADOS D1-151 O KINHENT O TEAR-OFF COMMOR ATH - THS XHUSOU 100 ET CHUNCASOTT I NEW
STANDARD
STANDARD
GENERALD
GENERALD
GENERALD Perign Berter appeared may be respired for reading units. SHOULTHIALS SWALL 1 THE STREET 030 ipaticate from the pelections below & provide details under description of work COther (descri Office pumper class B 000 X8856 T. 8 A WATER HEATER CI DAY BOT OR TRADETY Dadys Rotter approved may be regaled in serials arega. (Describe beatines below) MANAGE REPAIR (residential ONLY) Change out

D Plactric to Gas

C Relocate D WATER City/Stube/Zip: Phone: The Contractor: Valentine Hester & All License # 145454 Address: 2349 north due * CONTACT PHONE: 213-2925 Sume for Sume O Replant Cas Line Rapiaconne O Sewer Service Replace O Franciscovice Replacement MINOR SLECTRIC Andler O New cheer's circle D Blackic Service Charge 344-9167 FAX Sacramento (*Totidential Chill.Y) MINOR PLUMBING theres guiding Will require an additions NOTE: C PUBLIC UTILITIES (Besidential and single spuriousse Correction Nation isons 見るのだべ) SAFETY INSPECTION 1583k DPGB GUMSD

5

COCA SUZZE



CITY OF SACRAMENTO

Downtown Period Center 1231 | Street, Suits 200 Secremento, CA 95014

www.cityofsacramento.org

Help Line. 1-916-808-5866 OR 1-866-EX-PERMIT Inspection Request, 1-916-808-7622

North Permit Center 2101 Arana Bivd., Suite 200 Secremento, CA 95834

HEATING and COOLING EQUIPMENT QUESTIONNAIRE

Applicant's Name:	Valentine Heating 1 Air Phone: 213-2925
Project Address:	735 Santa and are Phone:
Please check the appro- leave boxes blank.	priate boxes. Only check a box if it accurately and completely describes your proposed work, otherwise
a. There is a final fina	OUNTED UNIT 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 by more than 25%. The new unit differs in location from the existing unit. The new unit is fully acceeded 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 form any street views.
_ m x	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 areast views. Existing shrubs or building will screen thounit from being visible from any street views.
b. There is:	NTED UNIT 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 by more than 25%. 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. The new unit shall be screened from street views by the building with no portion of the new unit being disible from any street views.
By signing bolow, the Applicant's signature:	Date: 10-12-05 SE ONLY Counter Smff:
=	it. Meets DR criteria? Yes No (route to DR staff) isted (route to P staff) P arca
nesting_questionneire_form	n - 04/2005

$0.1 \sim 0.1$	PCRMIY 0516153
Permit Package	#39 A.P. T.K.

*	\	
CERTIFICATE OF FIELD VERIFICATION	N & DIAGNOSTIC	TESTING (Page 1 of 8) CF-4R
Project Address 735 Santa Ana		Builder or Installer Name VALENTINE HEATING & AIR
Builder or Installer Contact David Valentine	Telephone (916) 344-9607	Plan/Permit (Additions or Alterations) Number
HERS Rater Steve Vasa-CC2004262	Telephone 916-682-8730	Sample Group Number
Compliance Method (Prescriptive)		Climate Zone 12
Certifying Signature	7/13/06 Date	Sample House Number
Firm Capitol Energy Consultants		HERS Provider CalCerts
Street Address: 1709 Adonis Way		City/State/Zip: Sacramento CA 95864

Copies to: BUILDER, HERS PROVIDER AND BUILDING DEPARTMENT

HERS RATER COMPLIANCE STATEMENT

The house was: ✓ ☑ Tested ✓ □ Approved as part of sample testing, but was not tested As the HERS rater providing diagnostic testing and field verification, I certify that the house identified on this form complies with the diagnostic tested compliance requirements as checked on this form. The HERS rater must check and verify that the new distribution system is fully ducted and correct tape is used before a CF-4R may be released on every tested building. The HERS rater must not release the CF-4R until a properly completed and signed CF-6R has been received for the sample and tested buildings.

The installer has provided a copy of CF-6R (Installation Certificate).

New ducts are fully ducted (i.e., does not use building cavities as plenums or platform returns in lieu of ducts). X

New ducts with cloth backed, rubber adhesive duct tape is installed, mastic and draw bands are used in combination with cloth backed, rubber adhesive duct tape to seal leaks at duct connections.).

✓ □ MINIMUM REQUIREMENTS FOR DUCT LEAKAGE REDUCTION COMPLIANCE CREDIT

Procedures for field verification and diagnostic testing of air distribution systems are available in RACM, Appendix RC4.3.

Duct Diagnostic Leakage Testing Results

NE	W CONSTRUCTION:		T	
	Duct Pressurization Test Results (CFM @ 25 Pa)	Measured Values		
1	Enter Tested Leakage Flow in CFM:			
2	Fan Flow: Calculated (Nominal: Cooling ✓ ☐ Heating) or ✓ ☐ Measured Enter Total Fan Flow in CFM:	1600	1	✓
3	Pass if Leakage Percentage < 6% [100 x [(Line # 1) /(Line # 2)]]		☐ Pass ☐	Fail
AL	TERATIONS: Duct System and/or HVAC Equipment Change-Out			
4	Enter Tested Leakage Flow in CFM from CF-6R: Pre-Test of Existing Duct System Prior to Duct System Alteration and/or Equipment Change-Out.			
5	Enter Tested Leakage Flow in CFM: Final Test of New Duct System or Altered Duct System for Duct System Alteration and/or Equipment Change-Out.	179		
6	Enter Reduction in Leakage for Altered Duct System [(Line # 4) Minus(Line # 5)] (Only if Applicable)			
7	Enter Tested Leakage Flow in CFM to Outside (Only if Applicable)		✓ •	/
8	Entire New Duct System - Pass if Leakage Percentage < 6% [100 x [(Line # 5) / Line # 2)]]		□ Pass □] Fail
TE	ST OR VERIFICATION STANDARDS: For Altered Duct System and/or HVAC Equipment one of the following four Test or Verification Standards for compliance:	Change-Out	✓ •	/
9	Pass if Leakage Percentage < 15% [100 x [1 -> (Line # 5)/4 (6 (U (Line # 2))]	11.2	Pas [] Fail
10			☐ Pass ☐] Fail
11	Pass if Leakage Reduction Percentage > 60% [100		□ Pass □	1 Fail
	Pass if Sealing of all Accessible Leaks and Ver		☐ Pass ☐] Fail
	pass Gne of Light 69 through 22 pass		Pass D	J Fail

Residential Compliance Forms

System Rours

December 2005

CERTIFI	CATE C	F COMP	LIANCE	: RESIDEN	ΓIAL (I	Page 1 of 5)	CF-1R
		CHANG		Date 7/13/		Building Permit	
Project Address	735 Sa	nta Ana				00000	
	Sacrame	ento, CA 958	38			Plan Check / Date	9
Documentation	Author Da	avid Vale	entine		44-9607	Field Check / Dat	te
Compliance Me	thod (Prescri	iptive)		Climate Zone	12	Enforcement Age	may Uga Only
Total Condition Average Ceiling Check Applicable Box Building Typ (If adding for Adding Maxim Maxim Numb Floor Front of from T	Height: 8 Height	n fill-out WS-4R 3 for Alteration Total Fenestrat West Facing For Nur Type: slab ne	Single Fami , Fenestration s in the RCM. ion Arean/ enestration Are mber of Dwell Slab/Raise orth / South / I	a ft² (from	WS-4R) Area Worksho WS-4R) Area from WS-4R Cor both) Cornections (input)	eet and see Section (8.3.2
Component Type (Wall,	Frame			Assembly U-factor (for wood,	Joint	Roof Radiant	Location Comments
Roof, Floor, Slab Edge,	Type (Wood or	Cavity Insulation	Continuous Insulation	metal frame and mass	Appendix IV	Barrier Installed ²	(attic, garage,
Doors)	Metal)	R-Value	R-Value	assemblies) 1	Reference	Yes or No	typical, etc.)

See Joint Appendix IV in Section IV.2, IV.3, and IV.4, which is the basis for the U-factor criterion. U-factors can not exceed prescriptive value to show equivalence to R-values.
 This column is for the Inspector to verify installation of roof radiant barrier.

CERTIFICATE OF COMPLIANCE: RESIDENT	IAL (Page 2 of 5) CF-1	1R
Project Title	Date	
HVAC CHANGEOUT	7/13/06	

FENESTRATION PRODUCTS - U-FACTOR AND SHGC

✓ ☐ FENESTRATION MAXIMUM ALLOWED AREA WORKSHEET WS-4R -- must be included for New Construction, Additions, and Alterations.

Fenestration #/Type/Pos. (Front, Left, Rear, Right, Skylight)	Orien- tation, N, S, E, W ¹	Area (ft²)	U-factor ²	U-factor Source ³	SHGC ⁴	SHGC Source ⁵	Exterior Shading/Overhangs ^{6, 7} ✓ box if WS-3R is included
		· · · · · · · · · · · · · · · · · · ·					
haramatarih di Alimana da							

- 1) Skylights are now included in West-Tacing fenestration area if the skylights are tilted to the west or tilted in any direction when the pitch is less than 1:12. See §151(f)3C and in Section 3.2.3 of the Residential Manual.
- 2) Enter values in this column from either NFRC Certified Label or from Standards Default Table 116-A.
- 3) Indicate source either from NFRC or Table 116-A,
- 4) Enter values in this column from NFRC or from Standards Default Table 116B or adjusted SHGC from WS-3R.
- 5) Indicate source either from NFRC, Table 116B or WS-3R
- 6) Shading Devices are defined in Table 3-3 in the Residential Manual and see WS-3R to calculate Exterior Shading devices.
- 7) See Section 3.2.4 in the Residential Manual.

HVAC SYSTEMS

Heat Pump 7.6 Attic	R4.2/R6	setback	package
1 1 1			***************************************

Cooling Equipment Type and Capacity (A/C, heat pump, evap. cooling)	Minimum Efficiency (SEER or EER)	Distribution Type and Location (ducts, attic, etc.)	Duct or Piping R-Value	Thermostat Type	Configuration (split or package)
Heat Pump	12	Attic	R4.2/R6	setbeck	package
			<u> </u>		

CER	TIFICATE O	F COMPLI	ANCE: RI	ESIDEN	TIAL	(Page 3 of	(5) C	F-1R
Project						<u>Date</u>		[
HVA	AC CHANGEOU					7/13/0	06	
EALEI	DUCTS and TXVs	(or Alternative M	easures)				•	•
signed	CF-4R Form must be	provided to the bui	ilding departmen	t for each ho	me for whicl	h the following	g are require	d.
X	Sealed Ducts (all cli	mate zones) (Install	er testing and ce	rtification an	d HERS rate	r field verifica	ation require	d.)
	TXVs, readily acces	sible (climate zones	2 and 8-15 only	7)			,	
	(Installer testing and	certification and H	ERS Rater field	verification i	required.)	·'	C D 6.1.	
	Refrigerant Charge (verification required		1 8-15 only) (Ins	taller testing	and certifica	non and HEK	S Kater neid	l
<u>O</u>	R			77 (C. D. 1	75. 4.14		- E	
	Alternative to Sealed Project Climate Zon	l Ducts and Refrige e in the RM Append	rant Charge /TX dix B Table 151-	Vs (See Paci C, Footnotes	cage D Alter	native Packag	e reatures to	or
O								
	No ducts installed.			not avasadin	~ 400 in les	and b		
	New ducts from exis	erations duct syste	ms that are not d	locumented to	o have been	nreviously sea	led as confi	rmed
	through field verific	ation and diagnostic	testing in accor	dance with p	rocedures in	the Residentia	al ACM Ma	nual.
ш	Duct systems with n	nore than 40 linear t	feet in unconditie	oned spaces s	shall meet the	e requirements	s of Section	150(m)
	and duct insulation r	equirements of Pac	kage D.					
		N. 60						
WATER	R HEATING SYSTE	MIS						
	Check box if system meets criteria of a "Standard" system. Standard system is one gas-fired water heater per dwelling							
	unit. If the water he	ater is a storage typ	e, 50 gallons is t	he maximum	capacity and	d recirculation	ı system is n	ot allowed.
	unit. If the water heater is a storage type, 50 gallons is the maximum capacity and recirculation system is not allowed. Check box when using Preapproved Alternative Water Heating table, Table 5-4 in Chapter 5 in the Residential Manual. No water heating calculations are required, and the system complies automatically.							
	Manual. No water he	eating calculations	are required, and	the system of	complies auto	omatically.	Dropporove	
	Check box if system does not meet criteria of "Standard" system, and does not comply with the Preapproved Alternative Water Heating table. In this case, the Performance Method must be used and must be included in the submittal.							
	Check box to verify	that a time control	is required for a	recirculating	system pum	p for a system	serving mu	ltiple units
System:	s serving single dw	elling units (See R	M Table 5-4, Alte	mative Water	Heating Syste		tion requiren	
·				Rated		Energy		Tank
	Water Handan	istribu	umber	aput ¹	Tank	Factor or Thermal	Standby ¹	Externa Insulatio
	Water Heater Type/Fuel Type	Туре	n System	V or (hr)	Capacity (gallons)	Efficiency	Loss (%)	R-Value
	1 y po/1 doi 1 y po				(44.70.20)			
								
				<u> </u>	<u> </u>	<u> </u>		
System	serving multiple d	welling units (See	Residential Manu	ial Section 5.3.	.3) I	17	I	Tank
				Rated	T1-	Energy Factor or		Externa
	Water Heater	Distribution	Number	Input ¹ (kW or	Tank Capacity	Thermal	Standby ¹	Insulatio
	Туре	Туре	in System	Btu/hr)	(gallons)	Efficiency	Loss (%)	R-Value
							1	
	· · · · · · · · · · · · · · · · · · ·							
				<u> </u>				
				<u> </u>	1	L	l	<u> </u>

<u>Pipe Insulation</u> (kitchen lines \geq 3/4 inches) All hot water pipes from the heating source to the kitchen fixtures that are 3 /4 inches or greater in diameter shall be thermally insulated as specified by Section 150 (j) 2 A or 150 (j) 2 B.

For small gas storage water heaters (rated inputs of less than or equal to 75,000 Btu/hr), electric resistance, and heat pump water heaters, list Energy Factor. For large gas storage water heaters (rated input of greater than 75,000 Btu/hr), list Rated Input, Recovery Efficiency, Thermal Efficiency and Standby Loss. For instantaneous gas water heaters, list Rated Input and Thermal Efficiencies.

CERTIFICATE OF COMPLIANCE: RESIDENTIAL	(Page 4 of 5)	CF-1R
Project Title	Date	
HVAC CHANGEOUT	7/13/06	

SPECIAL FEATURES REQUIRING BUILDING OFFICAL or HERS RATER VERIFICATION
Indicate which special features are parts of this project. The list below only represents special features relevant to the prescriptive method.
(Check Applicable boxes)

Check Applic	Building Official	1	HERS Rater	The state of the s
Category	Verification of Special Features	HERS Rater Verification	Diagnostic Testing	Measure
Ducts	<u>. L </u>			
0	Y			100% of ducts in crawtspace/basement
		Υ		Buried ducts
		Υ		Diagnostic supply duct location, surface area, and R-value
	Y			Duct increased R-value
図			Y	Duct leakage
	Υ			Ducts in attic with radiant barriers
		Υ		Less than 12 ft. of duct outside conditioned space
		Y		Non-standard duct location
	Υ			Supply registers within two ft of floor
			·	
Envelope				
0	Υ			Air retarding wrap
	Y			Cool roof
	Y			Exterior shades
0	Y			High thermal mass
	Y			Inter-zone ventilation
	Y			Metal framed walls
	Y	_		Non-default vent heights
		Y		Quality insulation installation
	Y			Radiant barrier
			Y	Reduced infiltration (blower door). May also require mechanical ventilation.
	Y			Solar gain targeting (for sunspaces)
	Y			Sunspace with interzone surfaces
	Υ			Vent area greater than 10%
HVAC Equip	nent			
			Y	Adequate air flow
		Y		Air conditioner size
	3		Y	Air handler fan power
		Y		High EER
	Y			Hydronic heating systems
		Υ		Mechanical ventilation
<u> </u>			Υ	Refrigerant charge
<u> </u>		Y		Thermostatic expansion valve (TXV) Pkg Unit - TXV Exempt
	Y			Zonal control
Water Heater		· · · · · · · · · · · · · · · · · · ·		
	Y			Combined hydronic
	Y			High EF for existing water heaters
	Y			Non-NAECA water heater
<u>_</u>	Y			Non-standard water heaters (wh/unit)
	Y			Water heater distribution credits
	1		1	

CERTIFICATE OF COMPLIANCE		(Page 5 of 5)	
HVAC CHANGEOUT		Date 7/13/06	
ecial Remarks			
			1
COMPLIANCE STATEMENT			
This certificate of compliance lists the building Parts 1 and 6 of the California Code of Regula certificate has been signed by the individual w compliance using duct design, duct sealing, ve quality, and building envelope sealing require approved HERS rater.	ations, and the administrative rith overall design responsibe crification of refrigerant char	e regulations to imple ility. The undersigned rge and TXVs, insular	ment them. d recognizes tion installat
signer or Owner (per Business and Professions Cod		uthor	
Jame:	Name: David	Valentine	
itle/Firm:	Title/Firm: VALEN	TINE HEATING	3 & AIR
ddress:	VALEN	TINE HEATING	
Address:	Address: 2349 N		JE
	Address: 2349 N	ORTH AVENU IENTO, CA 95838	JE
Address:	Address: 2349 No. SACRAM	ORTH AVENU IENTO, CA 95838 9607	JE
ddress:	Address: 2349 N SACRAN Telephone: (916) 344-9	ORTH AVENU IENTO, CA 95838 9607	JE B

Residential Compliance Forms

December 2005

INSTALLATION CERTIFICATE	(Page 3 of 12) CF-6R
Site Address 735 Santa Ana	Permit Number (5) (6) 5

An installation certificate is required to be posted at the building site or made available for all appropriate inspections. (The information provided on this form is required) After completion of final inspection, a copy must be provided to the building department (upon request) and the building owner at occupancy, per Section 10-103(a).

HVAC SYSTEMS:

Heating Equipment

Equip Type (pkg. heat pump)	CEC Certified Mfr. Name and Model Number	# of Identical Systems	Efficiency (AFUE, etc.) ¹ (≥CF-1R value)	Duct Location (attic, etc.)	Duct or Piping R-value	Heating Load (Btu/hr)	Heating Capacity (Btu/hr)
Heat Pump	American Standard	1	7.6	Attic	R4.2/R6		48K
	WCX048G100A						

Cooling Equipment

Equip Type (pkg. heat pump)	CEC Certified Mfr. Name and Model Number	# of Identical Systems	Efficiency (SEER or EER) ¹ (≥CF-1R value)	Duct Location (attic, etc.)	Duct R-value	Cooling Load (Btu/hr)	Cooling Capacity (Btu/hr)
Heat Pump	Same	1	12	Attic	R4.2/R6		4 Ton
	I	<u> </u>					
					<u> </u>		

1. ≥ symbol reads greater than or equal to what is indicated on the CF-1R value.

Include both SEER and EER if compliance credit for high EER air conditioner is claimed.

✓ ☑I I, the undersigned, verify that equipment listed above is: 1) is the actual equipment installed, 2) equivalent to or more efficient than that specified in the certificate of compliance (Form CF-1R) submitted for compliance with the Energy Efficiency Standards for residential buildings, and 3) equipment that meets or exceeds the appropriate requirements for manufactured devices (from the Appliance Efficiency Regulations or Part 6), where applicable.

Installing Subcontractor (Co. Name) OR General Contractor (Co. Name) OR Owner	VALENTINE HEATING & AIR
Signature:	Date: 7/13/06

Copies to: BUILDING DEPARTMENT, HERS RATER (IF APPLICABLE) BUILDING OWNER AT OCCUPANCY

	700 Salita Alia	13 101	ر د		
IN	STALLER COMPLIANCE STATEMENT FOR DUC	T LEA	KAGE		
	TALLER COMPLIANCE STATEMENT building was: ✓ ☑ Tested at Rough-in				
⊠ F v □ I	TALLER VISUAL INSPECTION AT FINAL CONSTRUCTION STAGE FOR NI temove at least one supply and one return register, and verify that the spaces between to vall are properly sealed. If the house rough-in duct leakage test was conducted without an air handler installed, it ir handler and the supply and return plenums to verify that the connection points are pro-	the register l nspect the c roperly seale	ooot and the i		•
Œ lr	respect all joints to ensure that no cloth backed rubber adhesive duct tape is used on new	ducts.			
Proc	DUCT LEAKAGE REDUCTION redures for field verification and diagnostic testing of air distribution systems are available CONSTRUCTION:	illable in R	ACM, Appen	dix RC4.3)
	Duct Pressurization Test Results (CFM @ 25 Pa)		Measured Values		
1	Enter Tested Leakage Flow in CFM:		, 41100		
2	Fan Flow: Calculated (Nominal: Cooling I Heating) or I Measured If Fan Flow is Calculated as 400 cfm/ton x number of tons or as 21.7 cfm/(kBtu/hr) x Capacity in Thousands of Btu/hr, enter total calculated or measured fan flow in CFM		1600	✓	✓
3	Pass if Leakage Percentage < 6% for Final or < 4% at Rough-in without air handle: [100 x [(Line # 1) / (Line # 2)]]			☐ Pass l	□ Fail
AL'	TERATIONS: Duct System and/or HVAC Equipment Change-Out				
4	Enter Tested Leakage Flow in CFM from Pre-Test of Existing Duct System Prior to System Alteration and/or Equipment Change-Out.	Duct	•		
5	Enter Tested Leakage Flow in CFM from Final Test of New Duct System or Altered System for Duct System Alteration and/or Equipment Change-Out.	Duct	179		
6	Enter Reduction in Leakage for Altered Duct System [(Line # 4) Minus(Line # 5)] - (Only if Applicable)				
7	Enter Tested Leakage Flow in CFM to Outside (Only if Applicable)			✓	✓
8	Entire New Duct System - Pass if Leakage Percentage < 6% for Final. [100 x [(Line # 5) /Line # 2)]]		· · · · · · · · · · · · · · · · · · ·	☐ Pass	☐ Fail
	T OR VERIFICATION STANDARDS: For Altered Duct System and/or HVAC	Equipment	Change-	1	1
	Use one of the following four Test or Verification Standards for compliance: Pass if Leakage Percentage < 15% [100 x [(Line # 5) /(Line # 2)]	\ <u>\</u>	11.5	200) C = : :
9 10	Pass if Leakage to Outside Percentage < 10% [100 x [(Line # 7) /(Line # 7) /		11.2	Pass Pass	
11	Pass if Leakage Reduction Percentage > 60% [100 x [(Line # 6) /(Line # 6) /	ine # 4)]]		☐ Pass	☐ Fail
12	Pass if Sealing of all Accessible Leaks and Verification by Smoke Test and Visual In	spection		Q Pass	☐ Fail
	Pass if One of Lines # 9 through	 		Pass)	
credi	II, the undersigned, verify that the above diagnostic test results were performed in conformation. I, the undersigned, also certify that the newly installed or retrofit Air-Distribution Sy datory requirements specified in Section 150 (m) of the 2005 Building Energy Efficient	stem Ducts,	Plenums and	nents for c d Fans con	omplianc nply with
		ALENTI	NE HEA	TING 8	& AIR
Sign	ature: Da	ite: 7/13/	06		
Coni	es to: RUILDING DEPARTMENT, HERS RATER (JE APPLICARLE) RUILDING OWN	ER AT OCC	TIPANCY		·····

Residential Compliance Forms

December 2005

			RTIFICATE					CF-6R
Site Address 735 Santa Ana						Permit Number		
			EXPANSION VAI	LVE (TXV) expansion valves are available in RAC	M, Appen	odix RI.	Boo	5mPt
1	图 Yes	□ No	consist of visual v	f for inspection. The procedure shall erification that the TXV is installed on stallation of the specific equipment	×			
				Yes is a pass	Pass	Fail		
erific herm		equired Re ansion Val		EMENT i Adequate Airflow for Split System Sp	pace Cool	ing Syste	ms witho	out
Loca		sitat #						
	loor Unit M	fake			· · · · · · · · · · · · · · · · · · ·			
	loor Unit M							
Cool	ing Capaci	ty		u/hr				
	of Verifica							
Date	of Refrige	rant Gauge	Calibration	(must be checked mor	nthly)			
Date of Thermocouple Calibration (must be checked mon					nthly)			
ocedi	иге.		installed and charge	d in accordance with the manufacturer's	s specific	ations be	fore start	ing this
	Temperatur	~	r) air dry-hulb tomo	erature (Tsupply, db)		°F		
			· · · · · · · · · · · · · · · · · · ·	erature (Treturn, db)		or or		
			-	perature (Treturn, wb)		o _F		
			crature (Tevaporate			°F		
········	ion line ten			TA		°F		
Conc	denser (ente	ering) air d	ry vill temp sture			°F		
	eat Charge	• • • • • • • • • • • • • • • • • • • •		geran Charge		om 1		
··· - · · · · · · · · · · · · · · · · ·			old db - Tevaporado	or, sale		°F		
Target Superheat (from Table RD-2) Actual Superheat – Target Superheat (System passes if between -5 and +5°F)				°F				
Aciu	ai Supernea	ıı – Target	Superneat (System	passes ii between -5 and +5°F)		<u> </u>		
plit A	Method Cal	culation is		equate Airflow credit is taken				
			T return, db Tsup	ply, db		°F		
			from Table RD3)	Culia (G		°F		
				Split (System passes if between - een -3°F and -100°F)		°F		