0612356

CER	TIFICATE OF FIELD VERIFICATION & DIAGNOSTIC TESTING (Page 1 of 8)	. 34	CF-4R		
260	Wah Ave - Sacramento, CA 95822 Royce-Air - 72424	/ 608764			
2602 Wah Ave - Sacramento, CA 95822 Royce-Air - 724 Prefact Address Contractor Name					
$^{\prime\prime}$ V	0.0799 - 0.000000000000000000000000000000000				
Conti	actor Contact Telephone Permit Number				
	d Gonsalves / 916-240-8605 37431				
	Rater/ / / / / Telephone Sample Group Numb				
	August 14, 2006 CC14-1798378013	3			
Certi	ying Signature Date Certificate Number	DTC			
Firm			77		
Stre	et dodress: 6345 Rainier Ave City/State/Zip: Rockli	117 CA 7 330			
Coni	es to: Homeowner, HERS Provider and Building Department				
This	CF-4R has been registered with the CalCERTS® registry in accordance with the Title 24	4 & Title 20	of the CCR.		
CalC	ERTS® is an approved HERS provider by the California Energy Commission.		<u> </u>		
HER	S RATER COMPLIANCE STATEMENT				
The	house was Tested Approved as part of sample testing, but was not tested.	this form com	alloc with the		
As th	e HERS rater providing diagnostic testing and field verification, I certify that the house identified on lostic tested compliance requirements as checked on this form. The HERS rater must check and verification.	tris form comp to that the new	distribution		
cvete	im is fully ducted and correct tane is used before a CF-4R may be released on every tested building.	The HERS rate	er must not		
relea	se the CF-4R until a properly completed and signed CF-6R has been received for the sample and tes	ted buildings.			
š	The installer has provided a copy of the CF-6R (Installation Certificate). New Distribution system is fully ducted (i.e., does not use building cavities as plenums or platform r	eturns in lieu (of ducts).		
Ż	New systems where cloth backed, rubber adhesive duct tape is installed, mastic and drawbands are	used in combi	nation with cloth		
استينا	backed, rubber adhesive duct tape to seal leaks at duct connections.				
YM	INIMUM REQUIREMENTS FOR DUCT LEAKAGE REDUCTION COMPLIANCE CREDI	T: Main Syst	em		
NE	W CONSTRUCTION		·		
	Duct Pressurization Test Results (CFM @ 25 Pa)	Measured Values			
1	Enter Tested Leakage Flow in CFM:	N/A			
2	Fan Flow: Calculated (Nominal Cooling Heating) or Measured Enter Total Fan Flow in CFM:	1000			
3	Pass if Leakage Percentage <= 6% { 100 x (Line 1 / Line 2)}:	N/A	N/A		
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 Duc System Alteration and/or Equipment Change-Out.	t 145			
6	Enter Reduction in Leakage for Altered Duct System [Line 4 - 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 Fall		
TEST OR VERIFICATION STANDARDS: For Altered Duct System and/or HVAC Equipment Change-Out, use one of the following four Test or Verification Standards for compliance:					
9	Pass if Leakage Percentage <= 15% [100 x (Line 5 / Line 2)]:	14.50%	Pass Fail		
<u> </u>	Pass if Leakage to Outside Percentage <= 10% [100 x (Line 7 / Line 2)]:		Pass Fail		
11	Pass if Leakage Reduction Percentage >= 60% [100 x (Line 6 / Line 4)] and Verification by Smoke Test and Visual Inspection		Pass Fail		
12			☐ Pass ☐ Fall		
	Pass if One of Lines #9 through #12 pas	s	Pass Fall		

- Chaina tob	
INSTALLATION CERTIFICATE	(Page 3 of 12) CF-6R
Site Address 2402 was ave Sacramento, CA	Permit Number
An installation certificate is required to be posted at the building site or made available information provided on this form is required) After completion of final inspection, a codepartment (upon request) and the building owner at occupancy, per Section 10-103(a).	opy must be provided to the building
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)
PKU OR	Pheem	1	୫ ୦	attic	4.2		30,000
J . J	PRPL803						
	OSKOOL						
							·

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)
PK6 De	Rheem		14	allic_	4.2		30,000
J	ORPIRM3					· · · · · · · · · · · · · · · · · · ·	
	arrane						

≥ symbol reads greater than or equal to what is indicated on the CF-IR value.
 Include both SEER and EER if compliance credit for high EER air conditioner is claimed.

✓ II 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	İ		
Contractor (Co. Name) ORO Oyuter	ĺ.		
Giana de la constantina della	Date:	C-60 -0	
Signature:	Date.	Y 7 C	

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

11	NSTALLATION CERTIFICATE	(Page	4 of 12)	CF-6R
		it Numb		
	NSTALLER COMPLIANCE STATEMENT FOR DUCT	LEA	KAGE	
	ISTALLER COMPLIANCE STATEMENT ne building was: ✓ □ Tested at Final ✓ □ Tested at Rough-in	·		
	Remove at least one supply and one return register, and verify that the spaces between the finishing wall are properly sealed. If the house rough-in duct leakage test was conducted without an air handler installed, insp between the air handler and the supply and return plenums to verify that the connection poi Inspect all joints to ensure that no cloth backed rubber adhesive duct tape is used	ect the c	onnection p	oints
√ Pi	DUCT LEAKAGE REDUCTION cocedures for field verification and diagnostic testing of air distribution systems are available	ble in R	 4 <i>СМ, Арр</i> е	ndix RC4.3
	W CONSTRUCTION:			
	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 If Fan Flow is Calculated as 400 cfm/ton x number of tons or as 21.7 cfm/(kBtu/hr) x Hea Capacity in Thousands of Btu/hr, enter total calculated or measured fan flow in CFM here	ting	1000	1 1
3	Pass if Leakage Percentage≤ 6% for Final or ≤ 4% at Rough-in: [100 x [(Line # 1) / (Line # 2)]]			□ Pass □ Fail
ΑL	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 Duct System Alteration and/or Equipment Change-Out.	:		
5	Enter Tested Leakage Flow in CFM from Final Test of New Duct System or Altered Duc System for Duct System Alteration and/or Equipment Change-Out.	t 1	41	
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 \leq 6% for Final or \leq 4% at Rough-in [100 x [(Line # 5) /Line # 2)]]	1		□ Pass □ Fail
	ST OR VERIFICATION STANDARDS: For Altered Duct System and/or HVAC Equi	pment (hange-	1 1
Ou	t Use one of the following four Test or Verification Standards for compliance:		N	
9	Pass if Leakage Percentage \leq 15% [100 x [(Line # 5) /(Line # 2)]] Pass if Leakage to Outside Percentage \leq 10% [100 x [(Line # 7) /(Line # 7) /(Line # 7)	4 2011	([]	Pass Fai
10				□ Pass □ Fai
11	Pass if Leakage Reduction Percentage ≥ 60% [100 x [(Line # 6) / (Line # and Verification by Smoke Test and Visual Inspection	, 4)]]		🗆 Pass 🗅 Fai
12	Pass if Sealing of all Accessible Leaks and Verification by Smoke Test and Visual Inspect			□ Pass □ Fai
	Pass if One of Lines # 9 through # 12		المالة المالة المالة المالة	□ Pass □ Fai
co	Lift, the undersigned, verify that the above diagnostic test results were performed in conform mpliance credit. I, the undersigned, also certify that the newly installed or retrofit Air-Distribusions comply with Mandatory requirements specified in Section 150 (m) of the 2005 Building I	oution Sy	stem Ducts	, Plenums and
ſ	Installing Subcontractor (Co. Name) OR General Contractor (Co. Name) OR Owner			

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

Residential Compliance Forms

Signature/

April 2005