NSTALLATIO	(Pa	(Page 3 of 12) CF-6R								
Site Address						Permit Number				
formation provided	cate is required to be ponential on this form is requirement, and the building	ed) After c	ompletion of final	inspection, a	copy must be					
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)			
ooling 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 Capacit (Btu/hr			
Include both SE ✓ □I I, the under more efficient tha Energy Efficiency	greater than or equal EER and EER if compositions are greatly stated as the standards for residuant for residuant factured devices (uipment lise certificat	sted above is: 1) is te of compliance of Idings, and 3) ed	ir conditioner i s the actual equ (Form CF-1R) quipment that	uipment instal submitted fo meets or ex	r compliance ceeds the app	with the propriate			
T 4 111 C 1 4	ractor (Co. Name) OR	Canaral	1							

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

Home Energy Rating Service.com
Phone 805 582-0750
Phone 805 804-5112
Fax 805 804-5112

INSTALLATION CERTIFICATE	(Page	4 of 12)	CF-6R				
Site Address	Permit Numbe	r					
INSTALLER COMPLIANCE STATEMENT FOR DUCT LEAKAGE							
INSTALLER COMPLIANCE STATEMENT The building was: ✓ □ Tested at Final ✓ □ Tested at Rough-in							
 INSTALLER VISUAL INSPECTION AT FINAL CONSTRUCTION STAGE FOR NEW DUCTS: □ Remove at least one supply and one return register, and verify that the spaces between the register boot and the interior finishing wall are properly sealed. □ If the house rough-in duct leakage test was conducted without an air handler installed, inspect the connection points between the air handler and the supply and return plenums to verify that the connection points are properly sealed. □ Inspect all joints to ensure that no cloth backed rubber adhesive duct tape is used <i>on new ducts</i>. 							
✓ □ DUCT LEAKAGE REDUCTION	'' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' '	CM 4	P. DC(2				
Procedures for field verification and diagnostic testing of air distribution systems are NEW CONSTRUCTION:	available in KA	CM, Appen	dix RC4.3				
Duct Pressurization Test Results (CFM @ 25 Pa)		Measured Values					
1 Enter Tested Leakage Flow in CFM:							
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/h Capacity in Thousands of Btu/hr, enter total calculated or measured fan flow in C			✓ ✓				
Pass if Leakage Percentage < 6% for Final or < 4% at Rough-in without air hand [100 x [(Line # 1) /(Line # 2)]]	Pass if Leakage Percentage < 6% for Final or < 4% at Rough-in without air handle:						
ALTERATIONS: Duct System and/or HVAC Equipment Change-Out							
4 Enter Tested Leakage Flow in CFM from Pre-Test of Existing Duct System Prior System Alteration and/or Equipment Change-Out.	r to Duct						
Enter Tested Leakage Flow in CFM from Final Test of New Duct System or Alte System for Duct System Alteration and/or Equipment Change-Out.	ered Duct						
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)		✓ ✓					
Entire New Duct System - Pass if Leakage Percentage < 6% for Final. [100 x [(Line # 5) /Line # 2)]]		□ Pass □ Fail					
TEST OR VERIFICATION STANDARDS: For Altered Duct System and/or HVA Out Use one of the following four Test or Verification Standards for compliance:	C Equipment	Change-	✓ ✓				
9 Pass if Leakage Percentage < 15% [100 x [(Line # 5) /(Line	# 2)]]		☐ Pass ☐ Fail				
Pass if Leakage to Outside Percentage < 10% [100 x [(Line # 7) /	(Line # 2)]]		□ Pass □ Fail				
Pass if Leakage Reduction Percentage > 60% [100 x [(Line # 6) /] and Verification by Smoke Test and Visual Inspection	_(Line # 4)]]		□ Pass □ Fail				
12 Pass if Sealing of all Accessible Leaks and Verification by Smoke Test and Visua		☐ Pass ☐ Fail					
Pass if One of Lines # 9 through			□ Pass □ Fail				
✓ □I, the undersigned, verify that the above diagnostic test results were performed in conformance with the requirements for compliance credit. I, the undersigned, also certify that the newly installed or retrofit Air-Distribution System Ducts, Plenums and Fans comply with Mandatory requirements specified in Section 150 (m) of the 2005 Building Energy Efficiency standards.							
Installing Subcontractor (Co. Name) OR General Contractor (Co. Name) OR Owner							
Signature:	Date:						

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

	INSTALLATION CERTIFICATE Site Address						(Page 5 of 12) CF-6F			
Site Ac	acress					Permit I	Number			
				VALVE (TXV) atic expansion valves ar	re available in RACM	1, Appen	dix RI.			
			Access is prov	vided for inspection. The	e procedure shall	<u> </u>	<u> </u>			
✓	□ Yes	□ No	consist of visu	Access is provided for inspection. The procedure shall consist of visual verification that the TXV is installed or the system and installation of the specific equipment shall be verified.						
					Yes is a pass	Pass	Fail			
Verific Thermo	ation for R ostatic Exp	equired Re ansion Val		SUREMENT e and Adequate Airflow	for Split System Spa	ace Cool	ing Syst	ems without		
	oor Unit S	erial #						4		
Loca								4		
	loor Unit M							4		
	loor Unit M			l D	tu/hr			-		
	ing Capaci	-		В	tu/nr			4		
	of Verifica		G 171 - 47	(*	nust be checked mor	thly)		-		
	of Refrige		Calibration		nust be checked mor			-		
	he system			e using the Standard Me arged in accordance wit						
	Temperatu						0.77			
	, <u>, , , , , , , , , , , , , , , , , , </u>		, ,	emperature (Tsupply, dl	<i>′</i>		°F			
Return (evaporator entering) air dry-bulb temperature (Treturn, db)							°F			
				temperature (Treturn, w	/b)		°F			
			perature (Tevap	orator, sat)	_		°F			
Suction line temperature (Tsuction, db) Condenser (entering) air dry-bulb temperature (Tcondenser, db)							°F			
Conc	denser (ent	ering) air d	ry-bulb tempera	iture (1 condenser, db)			Г			
Superh	eat Charge	Method C	alculations for F	Refrigerant Charge						
Actual Superheat = Tsuction, db – Tevaporator, sat							°F			
Target Superheat (from Table RD-2)							°F			
Actu	al Superhe	at – Target	Superheat (Sys	stem passes if between -	-5 and +5°F)		°F			
				Adequate Airflow f Adequate Airflow cred	lit is taken					
Actu	Actual Temperature Split = T return, db Tsupply, db						°F			
			(from Table RD				°F			
	Actual Temperature Split Target Temperature Split (System passes if between - 3°F and +3°F or, upon remeasurement, if between -3°F and -100°F)						°F			

INSTALLATION CERTIFICATE					(Page 8 of 12) CF-6R					
Site Address				Permit	Numbe	er				
√ [☐ FA	N W	VATT	DRAV	V					
						ir handler watt draw ar	e available in RACM, Appendix	RE3.2.		
✓		nod 1				w Measurement				
			RE3.			ble Watt Meter Measur				
			RE3.	2.2	Utilit	y Revenue Meter Meas	urement			
							Measured Fan Watt Draw			Watts
				Mea	asureo	l Fan Flow (enter total	cfm from airflow verification)			cfm
				11100		(01101 0001	Enter results of Watts/cfm			Watts/cfm
								✓	✓	
	′ 🗆 Y	7.00	1 🗆		Meas	ured fan watt/cfm draw	is equal to or lower than the	_		
Ľ	<u></u> П	es	П 1	1	fan w	ratt/cfm draw document			Ш	
							Yes is a pass	Pass	Fail	
✓		DEQ)UATI	E AIRI	FLOV	W VERIFICATION				
Pi	rocedi	ıres	for me	asuring	g the i	airflow are available in	RACM, Appendix RE3.1.	_		
✓		nod l				urement				
			RE4.			nostic Fan Flow Using		1		
			RE4.			<u> </u>	Plenum Pressure Matching	1		
	<u>_</u> □ Ye	c	RE4.			design exists on plans	Flow Grid Measurement	1		
	<u> </u>	3		.10	Duct	design exists on plans	Measured Airflow:			Total cfm
							Rated Tons cfm/ton			cfm/ton
							1000 1000 1000			• • • • • • • • • • • • • • • • • • • •
√	П Y	es	□No)	Meas	sured airflow is greater	than the criteria in Table RE-2	✓	✓	
]
							Yes is a pass	Pass	Fail	
<u></u>	Пм	AVI	MIIM	COO	LING	G CAPACITY				
							acity are available in RACM, Ap	nnendix	RF3	
1	√		Yes				fied (see adequate airflow credit)		111 5.	
2	· /		Yes			Refrigerant charge or		<u></u>		
3	▼		Yes		-	Duct leakage reduction				
3								um cool	ina	
4	✓		Yes	Yes No Cooling capacities of installed systems are ≤ to maximum cooling capacity indicated on the Performance's CF-1R and RF-3.				5		
_		_			-		es of installed systems are > than		um	✓ ✓
5	✓	ш	Yes		NO		e CF-1R, then the electrical input			
							be \leq to electrical input in the Cl to 1, 2, and 3; and Yes to either		0.1000	Pass Fail
						1 05 0	to 1, 2, and 3, and 1 es to either 2	+ 01 3 18	a pass	1 ass 1 an
√ [□ _{НІ}	GH	EER A	AIR CO	OND	ITIONER				
Pro	cedur	es fo	or verif	ication	ı are o	available in RACM, Apj				
1	√		Yes				d systems match the CF-1R		ı	
2	✓		☐ Yes ☐ No For split system, indoor coil is matched to outdoor coil						<u>✓ </u>	
							Yes to 1 and 2; and 3 (If Require	ed) is a p	ass I	Pass Fail
				ntractor Name)		Name) OR General				
					J10 C		Date:			
	Signature:						Dute.			

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