CalCERTS - Certificate

916-575-9855 p.11

Page 10 of 13

Pass Fall

CF-4R CERTIFICATE OF FIELD VERIFICATION & DIAGNOSTIC TESTING (Page 1 of 8) New-Century Air Systems / 718740 Contractor Name / License No. 06-06812 Permit Mumber Telephone Contractor Contact 916-768-9459 26486 John Gustason Sample Group Number HERS Rater May 22, 2006 CC14-1798367069

Date Cartificate Number Energy Analysis and Comfort Solutions, HERS Provider: CalCERTS City/State/Zip: Orangevale / CA / 95662 Street Address: PO Box 2233 Copies to: Homeowner, HERS Provider and Building Department

This CF-4R has been registered with the CalCERTS® registry in accordance with the Title 24 & Title 20 of the CCR. CalCERTS® is an approved HERS provider by the California Energy Commission. HERS RATER COMPLIANCE STATEMENT

The house was Tested Approved as part of sample testing, but was not tested.

Approved as part of sample testing, but was not tested.

As the HERS rater providing diagnostic testing and field verification, I cartify 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 the CF-6R (Installation Certificate).

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

New systems where cloth backed, rubber adhesive duct tape is installed, mestic and drawbands are used in combination with cloth backed, rubber adhesive duct tape to seal leads at duct connections. HERS RATER COMPLIANCE STATEMENT MINIMUM REQUIREMENTS FOR DUCT LEAKAGE REDUCTION COMPLIANCE CREDIT: NEW CONSTRUCTION Measured Values Duct Pressurization Test Results (CFM @ 25 Pa) N/A kege Flow in CFM: 1 Fan Flow: Calculated (Nominel Cooling Heating) or Measured Enter Total Fan Flow in CFM: Not Tested N/A N/A -6% ( 100 x ( Line 1 / Line 2 )). 3 Pass If Leakage Percentage ALTERATIONS: Duct System and/or HVAC Equipment Change-Out Enter Tested Leakage Flow in CFM from CF-6R: Pre-Test of Existing Duct System Prior to Duct Not Tested 4 System Alteration and/or Equipment Change-Out 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. Not Tested 5 Enter Reduction in Leakage for Altered Duck System Not Tested [Line 4 - Line 5] - (Only if Applicable) Not Tested Enter Testad Leakage Flow in CFM to Outside (Only if Applicable) 7 Pess Drail 8 Entire New Duct System - Pass if Leakage Percentage <- 6% [ 100 x ( Line 5 / Line 2 )]: Not Tested 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: Pass Drail Not Tested 9 Pass if Leakage Percentage <= 15% [ 100 x ( Line 5 / Line 2 )]: Pass Fail Not Tested 10 Pass if Leakage to Outside Percentage <= 10% [ 100 x ( Line 7 / Line 2 )]: Pass if Leakage Reduction Percentage >= 60% [ 100 x ( Line 5 / Line 4 )] and Verification by Smoke Test and Visual Inspection □Pass □Fail Not Tested 11

Pass if Sealing of all Accessible Leaks and Verification by Smoke Test and Visual Inspection

Pass if One of Lines #9 through #12 pass

CalCERTS - Certificate

Page 11 of 13

3910 IVY ST		New-Century Air Systems / 718740	•			
Project Address		Contractor Name / License No.				
-		06-06812				
Contractor Contact	Telephone	Permit Number				
John Gustason	916-768-9459	26486				
HERS/Rater Z Telephone		Sample Group Number				
The same	May 22, 2006	CC14-1798367069				
Çertifying Signátur	re Date	Cartificate Number				
Film:	Energy Analysis and Comfort Solutions, Inc.	HERS Provider: CalCER	TS			
Street Address:	PO Box 2233	City/State/Zip: Orange	vale / CA / 95662			
CalCERTS® is as	peen registered with the CalCERTS® regis on approved HERS provider by the Californi					
	OMPLIANCE STATEMENT	a Energy Commission.				
As the HERS rater diagnostic tested of The installer	Tested Approved as part of sample to providing diagnostic testing and field verification compliance requirements as checked on this form has provided a copy of the CF-6R (Installation C	n, I certify that the house identified on thi	is form complies with the			
THERMOSTA"	TIC EXPANSION VALVE (TXV):					
Access is prov	rided for inspection. The procedure she system and installation of the spec		hat the TXV is			
installed on th						

3910 Ivy ST.

0606812

CERTIFICA	TE OF C	OMPLIA	NCE: R	ESIDENTIA	<u>L</u>	(Page 1	of 5)	<u> </u>
EICHBERGEF	R, MARY 8	k E						
Project Title	-						Date	
» n/ AT			940	RAMENTO	CA	95838	060	6812
3910 IVY ST			340	KAMEIAIC	<u> </u>	0000	Building I	
Project Address								
Dave Owen				916-36	2 <u>-2822</u>			
Documentation /	Author			Telephor	ne		Plan Che	ck / Date
					12		Field Che	ck / Date
Prescriptive								cement Agency Use Only
Compliance Met	hod (Prescri	ptive)		Climate :	Zone		<b>E</b>	· · · · · · · · · · · · · · · · · · ·
(If addir for Addi Number of Stori Floor Construct Front Orientatio North and circle	ed Floor Area ed West Fac ed Total Fen g Type: (chec ing fenestrations and 8. ites: 1 ition Type: ition Type: ition West Face	a (CFA) ing Fenestra testration Prock one or mo on fill out Wi 3.3 for Altera Number Raise	oducts Per 1 ore) X S-4R, Fenest ations.) of Dwelling od Slab/Rai th / South / E	Fable 151-B or 1 Single Family tration Maximum Units: 1	I-B or 15 51-C Multi n Allowe e one or Orientati	1-C (5% X CFA) (20% X CFA) ifamily d Area Workshe	Addition X /	Alteration
OPAQUE SL	IRFACES	INCLUDIN	IG OPAQL	JE DOORS				
Component	Τ	<u> </u>		Assembly Uf	actor			
Type (Wall,	Frame			(for		Joint	Roof Radiant	
Roof, Floor,	Туре	Cavity	Continuous	wood, me	tal	Appendix	Barrier	Location/Comments
Slab Edge,	(Wood	Insulation	Insulation	frame and n		IV	Installed	(attic, garage, typical, etc.)
Doors)	or Metal)	R-Value	R-Value	assemblie	s) 1	Reference	Yes or No	typical, etc./
	<u> </u>							
i .								

<sup>1)</sup> 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.

EDTIFICATE	TE OF COMPLIANCE: RESIDENTIAL (Page 2 of 5)		5)	CF- 1R			
CHBERGER, M			3910 IVY				
ject Title					D	ate	
NESTRATION	PRODUCTS	S – U-FAC	TOR AND	SHGC		N. O. otrustion	
FENESTRAT	ON MAXIMUM d Alterations.	ALLOWED	AREA WOR	(SHEET WS-4R -r	must be included fo		
Fenestration	Orientation	, Area	U-facto	r2 U-factor	SHGC4	SHGC	Exterior hading/Overhangs6, 7
#/Type/Pos. (Front, Left,	N, S, E, W1			Source3		Source5 S	Ck box if WS-3R is included
Rear, Right, Skylight)							<del>- [] -</del>
		<b>-</b>		· ·			
			<del>                                      </del>				
	his column fro either from NFf are defined in 4 in the Reside	m NFRC or fi RC or Table 1 Table 3-3 in	rom Standar I16B. the Resider	ntial Manual and s	I16B or adjusted SH ee WS-3R to calcula Duct or Piping		g devices.  Configuration
Heating Equi		Minimur Efficienc	у Ту	Distribution pe and Location	R-Value	Туре	(split or package
furnace, heat pum		(AFUE or H		ucts, attic, etc.) Attic	R 4.2	Programable	e Split
Furnac	ce	80.00	AFUE	Attic			
60	kBTU						
Cooling Equ Type and C		Minimu Efficienc		Duct Location	Duct R-Value	Thermostat Type	Configuration (split or packag
(A/C, Heat Pump		(SEER or I		( attic, etc.)	<del> </del>	Bus a second by	e Split
A/C		14.00	SEER	Attic	R 4.2	Programabl	e Spiir
		12.00	EER		<del> </del>		
24	kBTU			<u> </u>	<del> </del>		

ER	TIFICATE OF	COMPLIANC	E: RESI	DENTIAL	(P	age 3 of 5)		CF- IK
_	BERGER, MARY	<u> </u>	•					
	t Title					Date		
	SEALED DUCTS	and TXVs (o	Alternativ	e Measures	<u>:)</u>			
	A signed CF-4R For	m must be provid	ed to the bui	lding departme	ent for each ho	me for which the	following. are	
	required.				<del></del>			
					- JUEBS -	-ter field verificati	on required )	
$\Box$	Sealed Ducts (all cl	imate zones) (Inst	aller testing	and certification	on and HERS I	ater neid vermeat	on requirem,	
_	TXVs, readily acces	sible (climate zon	es 2 and 8-1	5 only)	on required )			
$\Omega_{-}$	(Installer testing an	d certification and	HERS Rate	Neid Vernicati	ling and certif	ication and HERS	Rater field	
_	Refrigerant Charge		and 8-15 only	y) (installer tes	ung and cerui	ication and mente		
┸	verification require	d.)			···.			
	OR Alternative to Seale	d Duete and Boff	cerant Char	ne /TXVs (See	Package D Alt	ernative Package	Features for	
_	Project Climate Zor	ne in the RM Appe	ndix B Table	151-C, Footno	tes 7-14.			
	OR	He III die 14m 74pp-		<del></del>				
	E-r additions and a	Iterations, duct s	vstems that	are not docume	ented to have	been previously		
	sealed as confirme	d through field ve	rification an	d diagnostic te	sting in accor	dance with proced	lures in the	ļ
	Desidential ACM M	lanual and duct sy	stems with I	nore than 40 lii	near feet in un	conditioned		
7	spaces shall meet	the requirements	of Section 1	50(m) and duct	insulation rec	uirements of Pacl	(age D.	
	WATER HE	ATING SYSTE	MS					
	Check box if syste	m meets criteria c	of a "Standar	d" system. Sta	ndard system	is one gas-fired w	rater neater per irculation system	is
	dwelling unit. If the	e water heater is a	storage typ	e, 50 gallons is	tne maximum	capacity and reo	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
_	not allowed.			Mater Heating	table Table 5	4 in Chapter 5 in t	he Residential	
_	Check box when u	sing Preapproved	Alternative	vater neating	stem complies	automatically.		
	Manual. No water I Check box if syste	heating calculatio	ns are requir	tandard" syste	m and does r	not comply with th	e Preapproved	
	Check box if syste	em does not meet Heating table in t	his case, the	Performance I	Method must b	e used and must	be included in the	
_	i i	Heating table: III t	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,					
	submittal.  Check box to verif	fy that a time cont	rol is require	d for a recircu	lating system	pump for a systen	n serving multiple	
7	units	.,	•					<u>.</u>
Sv:	stems serving sin	gle dwelling u	nits				· ·	
				Rated	Tank	Energy		Tank
	Water Heater	Distribution	Number	Input1	Capacity	Factor1 or	Standby1 Loss (%)	External Insulation
	Type/Fuel Type	Туре	in System	(kW or	(gallons)	Thermal	LUSS (/a)	R-Value
				Btu/hr)	<del>                                     </del>	Efficiency		
		<del></del>	-		+			
					1			
Q.,.	stem serving mul	tiple dwelling	units					
<u>эу</u>	stelli Servilly Hun	apro arronning .	1	Rated	Tank	Energy		Tank
	Water Heater	Distribution	Number	Input1	Capacity	Factor1 or	Standby1	External
	Type/Fuel Type	Туре	in System	(kW or	(gallons)	Thermal	Loss (%)	Insulation
ĺ	· 14m. na14m.			Btu/hr)		Efficiency	<u> </u>	R-Value
					1			
				<u> </u>	<del></del>		<del>                                     </del>	··

heaters, list Rated input and Thermal Efficiencies.

Pipe Insulation (kitchen lines > 3/4 inches) All hot water pipes from the heating source to the kitchen fixtures that are % 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.

ERTI	FICATE OF COMPLIANCE	RESIDENTIAL (Page	4 of 5)	CF- 1R
~UDE	DOED MARY & FRWARD 3	910 IVY ST		
	INOLIN III	310101	Date	
ject Tit	tie			
		***************************************	<del></del>	
ECIAL	L FEATURES NOT REQUIRING HER	S VERIFICATION (add extra sheets if	necessary)	
icate w	which special features are part of this pr	oject. The list below represents special fe	tures relevant to the Pres	criptive
d Perfo	rmance Method.			
	<b>L</b>	Required Forms (if applicable)	Description	
T T	Feature Metal Framed Walls	CF-1R		
╅╫	Radiant Barriers	CF-1R		
╀	Exterior Shades	ws-4R		
ш	Exterior Shades	N/A; Performance Calculation		
т	Cool Roof	Required. Attach CRRC Label to		
ш	Cool Root	Forms.		
Т	Dedicated Hydronic Heating	Performance Calculation		
	System	Required; Attach Run to Forms.		
TT	Combined Hydronic System	Performance Calculation		
		Required; Attach Run to Forms.		
11	Gas Cooling	N/A; Performance Calculation		
		Required.		
П	Buried Ducts	N/A; Indicate on building plans.		
$\top$	Kitchen Pipe Insulation	See Section 5.6.2 Distribution		
		Systems in Residential Manual.		···
		See Table 5-13 or use		
П	Multiple Water Heaters Per	Performance Calculation and		
	Dwelling Unit	attach Run to Forms.		
T	Central Water Heating System	Performance Calculation and		
	Serving Multiple Dwellings	attach Run to Forms.		
	Non-NAECA Large Water	CF-1R		
	Heater			
		See Table 5-13 or use		
	Indirect Water Heater	Performance Calculation and		
		attach Run to Forms		<u> </u>
		See Table 5-13 or use		
	instantaneous Gas Water Heater	Performance Calculation and		
		attach Run to Forms		
		See Table 5-13 or use		
	Solar Water Heating System	Performance Calculation and		
		attach Run to Forms		
	Wood Stove Boiler	Performance Calculation and		
		attach Run to Forms		
		ATER VERIEICATION		
PECIA	AL FEATURES REQUIRING HERS R	ATER VERIFICATION the HERS Rater which credits are par	t of this project and nee	ed verification.
add ex	(tra sneets it necessary) indicate to	HIG HEVO Vares willon cleans are bar		
<del>_, _</del>	Factors	Required Forms (If applicable)	Description	
44	Feature	CF-6R part 4 of 12		
_	Duct Sealing	CF-6R part 5 of 12	<del></del>	
	Refrigerant Charge	CF-6R part 6 of 12		
	Thermostatic Expansion Valve	VITOR PART O OF 12		

CERTIFICATE OF COMPLIANCE: RESIDEN	TIAL (Page 5 of 5) CF- 1R
EICHBERGER, MARY & EDWARD 3910 IVY ST	
Project Title	Date
COMPLIANCE STATEMENT	
24, Parts 1 and 6 of the California Code of Regulation them. This certificate has been signed by the indivious undersigned recognizes that compliance using ductand TXVs, insulation installation quality, and buildi	ct design, duct sealing, verification of refrigerant charge ing envelope sealing require installer testing and
certification and field verification by an approved H Designer or Owner (per Business and Professions Code)	
Name:	Name:
Dave Owen	Dave Owen
Title/Firm:	Title/Firm:
New Century Air Systems	New Century Air Systems
Address: 3129 Fite Cir, # 130	Address: 3129 Fite Cir, # 130
Sacramento CA 950	827 Sacramento CA 95827
Telephone:	Telephone:
916-362-2822	916-362-2822
License #: 718740	
Da 5/206	19 Dr. 5-12-6
(signature) (date)	(signáture) (date)
Enforcement Agency	
Name:	Comments:
	Comments:
Name:	Comments:
Name:	Comments:
Name: Title Agency:	Comments:

(date)

(signature / stamp)

3910 Ivy ST.

0606812

INSTALLATION CERTIFICATE (Page 3 of 12) CF- 6R
3910 IVY ST SACRAMENTO CA 95838 0 いのもれ

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 Typ pkg. heat pump	CEC Certified Mfr. Name, Model and Serial 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)
Split	TRANE	1	80.00 AFUE	Attic	R 4.2	0	60000
	TUD1A060A924						

## **Cooling Equipment**

Equip Typ pkg. neat pumr	CEC Certified Mfr. Name, Model and Serial Number	# of Identical Systems	Efficiency (AFUE, etc.)1 >(CF-1R value)	Duct Location (attic, etc.)	Duct or Piping R-value	Cooling Load (Btu/hr)	Cooling Capacity (Btu/hr)
Split	TRANE	1	14.00 SEER	Attic	R 4.2	0	24000
	2TTX4024B1		12.00 EER	:			
Coil	ADP						
	HD19636						

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, 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.

Signature, Date

**New Century Air Systems** 

Installing Subcontractor (Co. Name)

50003 1201

OR General Contractor (Co. Name) OR Owner

COPY TO: Building Department HERS Rater (if applicable) Building Owner at Occupancy Site Address

SACRAMENTO CA

0606812 Permit Number

INSTALLER COMPLIANCE STATEMENT FOR DUCT LEAKAGE

Copies to: Builder, HERS Rater, Building Owner at Occupancy and Building Department	<u> </u>		
INSTALLER COMPLIANCE STATEMENT			
The building was: Tested at Final Tested at Rough-in			
<del></del>			
INSTALLER VISUAL INSPECTION AT FINAL CONSTRUCTION STAGE:			
Remove at least one supply and one return register, and verify that the spaces between the	register boot and	a the interior	
a table well are proporty socied			
The standard leakage test was conducted without an air handler installed, inst	ect the connection	on points	
between the air handler and the supply and return plenums to verify that the connection po	ints are properly	sealed.	
Inspect all joints to ensure that no cloth backed rubber adhesive duct tape is used			
inspect all joints to ensure that the state of the state			
DUCT LEAKAGE REDUCTION			
Procedures for field verification and diagnostic testing of air distribution systems are available	in RACM, Apper	ndix RC4.3	
Procedures for field verification and diagnostic testing of all distribution system			
NEW CONSTRUCTION:	Measured		
Duct Pressurization Test Results (CFM @ 25 Pa)	Values		
	19		
1 Enter Tested Leakage Flow in CFM:    Cooling   Heating or   Measured	<del>                                     </del>		
La Ean Flow Calculated (Nominal: 12-1500mg   11-500mg/ -	ann		
If Fan Flow is Calculated as 400 cfm/ton x number of tons or as 21.7 cfm/(kBtu/hr) x Heating	800		
Capacity in Thousands of Btu/hr, enter total calculated or measured fan flow in CFM here:	- 0/		
3 Pass if Leakage Percentage < 6% for Final or < 4% at Rough-in:	2.38%	Pass	Fail
19 (Line # 1) / 19 (Line # 2)]]	,-	V 1 433	7
ALTERATIONS: 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	1		
System Alteration and/or Equipment Change-Out.			
5 Enter Tested Leakage Flow in CFM from Final Test of New Duct System or Altered Duct			
System for Duct System Alteration and/or Equipment Change-Out.			
6 Enter Reduction in Leakage for Altered Duct System			
[ (Line # 4) Minus (Line # 5)] – (Only if Applicable)	<u> </u>		
7 Enter Tested Leakage Flow in CFM to Outside (Only if Applicable)			
8 Entire New Duct System - Pass if Leakage Percentage < 6% for Final or < 4% at Rough-in		_	_
		Pass	Fail
TEST OR VERIFICATION STANDARDS: For Altered Duct System and/or HVAC Equipme	nt Change-Out		
Use one of the following four Test or Verification Standards for compliance:			
Use one of the following four lest of Vermouters (Line # 5) /(Line # 2)]]		Pass	Fail
9 Pass IT Leakage Percentage 1 10% (100 A)	n	Pass	Fail
110 Pass II Leakage to Outside I trouves	n	Pass	Fail
111 Pass II Leakage Neddollori V. Tarring		Pass	Fail
and Verification by Smoke Test and Visual Inspection		Pass	Fail
12 Pass if Sealing of all Accessible Leaks and Verification by Smoke Test and Visual Inspection		Pass	Fail
Pass if One of Lines # 9 through # 12 pass			
	diagnostic test re	eults	
I, the undersigned, verify that the above of	alagnostic test re	hat the newl	v
for compliance credit. I, the undersign	ned, also certify t	nat the newl	,
installed or retrofit Air-Distribution System Ducts, Plenums and Fans comply with Mandalor	/ requirements \$	secilled ill	
Section 150 (m) of the 2005 Building Energy Efficiency Standards.			
05-23-06 New Century Air	Systems		
Inetalling Subcontra		DR .	50003
Signature Date Instaining Subcontractor (			1201
Guilla Goldson	· •		

NSTALLATION CERT	IFICATE		(Pag	je 5 of 12			GF-
910 IVY ST	,	SACRAM	ENTO CA 9	5838	060	180	
ite Address					Perm	it Number	
THERMOST	ATIC EXPANSIO	N VALVE (TXV)					
		tatic expansion valves a	re available in RA	СМ, Аррепо	dix RI.		
		·					
	Access is provi	ded for inspection. The	procedure shall		Γ		٦
Yes No	consist of visua	l verification that the T	(V is installed on				
	the system and	installation of the speci	ific equipment				ŀ
	shall be verified	<b>l.</b>					
Marian -			Yes is a pass		ass	Fail	
DEEDIGEDA	NT CHARGE ME	ASHREMENT					
erification for Required Re			Snlit System Snac	e Cooling S	vetame v	vithout	
		a Adequate Allilow iol s	spiit system spac	e cooming o	ysteilis v	VILLIOSE	
hermostatic Expansion Va Outdoor Unit Serial #	aives						
Location Outdoor Unit Make							
Outdoor Unit Model							$\dashv$
Cooling Capacity			Btu/hr				
			Etteriii .				
Date of Verification  Date of Refrigerant Gar	uge Calibration		(must be checked	i monthly)			
			(must be checked		<del></del>		
Date of Thermocouple	Canbration		Intest be checke	2 monthly)			
rocedures for Determining lote: The system should b rocedure.							nis
leasured Temperatures							_
<del>}                                 </del>		nperature (Tsupply, db)				F	_
		mperature (Treturn, db)				<u> </u>	
		mperature (Treturn, wb				F	_
Evaporator saturation	·	rator, sat)	· · · · ·				
Suction line temperatu			· ·			F	_
Condenser (entering) a	ir dry-bulb temperatu	ure (Tcondenser, db)				<u> </u>	
uperheat Charge Method							_
Actual Superheat = Tsu		ator, sat				<u>F</u>	
Target Superheat (from						<u> </u>	
Actual Superheat – Tar	get Superheat (Syste	em passes if between -5	and +5°F)			<u> </u>	
emperature Split Method (							
plit Method Calculation is			taken	<u> </u>			7
Actual Temperature Sp	***	pply, db				F	_
Target Temperature Sp		0-14/0	If to a to a second			F	_
		re Split (System passes	ii Detween -			F	
3°F and +3°F or, upon i	remeasurement, if be	tween -3°F and -100°F)				1	

NSTALLATION CERTIFICATE		CF- 6R		
910 IVY ST	SACRAMENTO CA	95838	0606812	
ite Address			Permit Number	
tandard Charge Measurement Summary: System shall pass both refrigerant charge ar measurements. If corrective actions were tak				
Yes No System Passes				
Alternate Charge Measurement Procedure ote: The system should be installed and charged in erification shall be documented on CF-6R before standard Charge Measure Procedure:	accordance with the manufactu	rer's specification		er
rocedures for Determining Refrigerant Charge using reigh-In Charging Method for Refrigerant Charge	g the Alternate Method are avail	able in RACM, A	ppendix RD3.	
Actual liquid line length:		ft		
Manufacturer's Standard liquid line length:		ft		
Difference (Actual – Standard):		ft		
Manufacturer's correction (ounces per foot)	x difference in length = _ (+ = add) (- = remove)	ounc	es	····
easured Airflow Method for Adequate Airflow Verifi Calculated Airflow: Cooling Capacity (Btu/hr)	Ication available in RACM, Appe X 0.033 (cfm/Btu-hr)		FM	٦
	red airflow must be greater than		irflow).	7
Ilternate Charge Measurement Summary: lystem shall pass both refrigerant charge and adequ ctions were taken, both criteria must be remeasured Yes No System Passes		om the same me	easurements. If corre	ective
Signature, Date	Installing Subcor	ntractor (Co. Nar	•	5000
	General Contract	or (Co. Name) O	R Owner	120

COPY TO: Building Department HERS Rater (if applicable) Building Owner at Occupancy