ALTERATIONS - HVAC

CEC-CF1R-ALT-04-E (Revised 06/14)

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	CF1R-ALT-04-E
Alterations - HVAC CZ 2, and 8-15 (formerly CF-1R-ALT-HVAC)	(Page 1 of 1)

Site Address:			Enfor	prcement Agency: Date Pre			ared:	Permit#:		
Equipment Type Equ		Equipment E	quipment Efficiency		New Ducting, <i>Plenums, Lineset:</i> Required R-value		Conditione Floor Area		Thermostat	
☐ Packaged System ☐ Split System ☐ Mini Split ☐ Furnace	□ Evaporator Coil □ Condensing Unit □ Compressor □ Lineset □ TXV	AFUESEEREER	COP HSPF	□ R-8	5 (CZ 2, 8-13) I 5 (CZ 11, 14, 1 5 (all CZ's) Pler 5 or R7.5) Lines	15) Ducting nums	Served by	system sqft	☐ Setback (If not already present, must be installed)	
HERS VERIFICATION SUMMARY Installer determines work to be completed and matches to one of the options below. At permit application this										
form is allowed to be								nd a copy	left on site.	
☐ 1. HVAC Changeou	Require	Required Compliance Documents to be left on site for Final:								
All Equipment, Condenser Unit, Evaporator Coil, Compressor, TXV, Lineset, Air Handler/Furnace ² (Can include new ducting)		CF2R: N	CF1R-ALT-02-E CF2R: MECH-01, MECH-20-HERS, MECH-(23 or 24) ² -HERS, MECH-25-HERS ² CF3R: MECH-20-HERS, MECH-(23 or 24)-HERS ² , MECH-25-HERS ²							
Installer Requirement: Duct leakage (< 15%, or < 10% to outside, or seal all accessible leaks), Air Flow ≥ 300 CFM/ton, Refrigerant Charge. Exempted from duct leakage testing if: ☐ 1. Duct system registered with HERS provider as previously sealed, or ☐ 2. There is less than 40 linear feet of duct in unconditioned space, or										
☐ 3. Existing duct systems are constructed, insulated or sealed with asbestos (list ma)			
2. New HVAC Syste			d Compliance Do	ocumer	its to be left o	n site for Final:				
All new equipment an including Mini Split	d All New Ducts	CF2R: N	CF1R-ALT-02-E CF2R: MECH-01, MECH-20-HERS, MECH-22-HERS, MECH-(23 or 24)-HERS ² , MECH-25-HERS ² CF3R: MECH-20-HERS, MECH-22-HERS, MECH-(23 or 24)-HERS ² , MECH-25-HERS ² Mini Splits require CF1R-ALT-02-E, CF2R-MECH-01, and (CF2R-CF3R) MECH-25-HERS							
Installer Requirement	t: Duct leakage ≤ 6%, F	an Efficacy (.58	BW/CFM), Air Flo	ow ≥ 350	0 CFM/ton (or	alternative), Re	frigerant C	harge		
☐ 3. All New Ducts w	•		d Compliance Do	ocumer	nts to be left o	n site for Final:				
All New Ducts ³ and one or more of the following replaced: Condenser Unit, Evaporator Coil, Compressor, TXV, Lineset, Furnace ² CF3R: MECH-20-HERS, MECH-(23 or 24)-HERS, MECH-25-HERS CF3R: MECH-20-HERS, MECH-(23 or 24)-HERS, MECH-25-HERS										
Installer Requirement: Duct leakage \leq 6%, Air Flow \geq 350 CFM/ton (or alternative), Refrigerant Charge Exempted from duct leakage testing if: □ 1. Existing duct systems are constructed, insulated or sealed with asbestos										
☐ 4. New Ducting over			d Compliance Do							
New ducting but less										
New ducting but less than All New Ducts ³ CF1R-ALT-02-E, CF2R: MECH-20-HERS, CF3R: MECH-20-HERS Installer Required to: Duct leakage (<15% or, <10% to outside or, or seal all accessible leaks) □ EXCEPTION: Existing duct systems constructed, insulated or sealed with asbestos.										
 All new ducting R-8 required when more than 40 ft installed and R-6 when less than 40 ft installed. This includes in walls, between floors etc. Heating only systems and Air Handler/Furnace changes do not require Air Flow MECH-(23 or 24), or Refrigerant Charge verification MECH-25 All New Ducts is when at least 75 percent of the duct system is new duct material, and up to 25 percent may consist of reused parts from the dwelling unit's existing duct system (e.g., registers, grilles, boots, air handler, coil, plenums, duct material) R-5 (1" thick insulation) for linesets 1" and less. R-7.5 (1.5" thick insulation) for linesets over 1 inch. Most mfg will require Suction line Diameter with insulation as the following 1.5-2T-2%", 2.5-3T-2%", 3.5 to 4T-2%", 5T-4%" 										
Contractor (Documentation Author's /Responsible Designer's Declaration Statement)										
 I certify the following under penalty of perjury, under the laws of the State of California: The information provided on this Certificate of Compliance is true and correct. I am eligible under Division 3 of the California Business and Professions Code to accept responsibility for the information on this document. That the energy features and performance specifications for the design identified on this Certificate of Compliance conform to the requirements of Title 24, Parts 1 and 6 of the California Code of Regulations (CCR). That the energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the CCR. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application. 										
Responsible Designer Name	:	Responsible Design	ner Signature:			Date Signed:		License:		
Company :		Address:			City/State/Zip:		Phone:			