

# 2008 Energy Standards Requirements for Residential HVAC Changeouts in Climate Zones 1 and 3 through 7

California Energy Commission
Compliance and Enforcement Unit

Dated: September 23, 2011



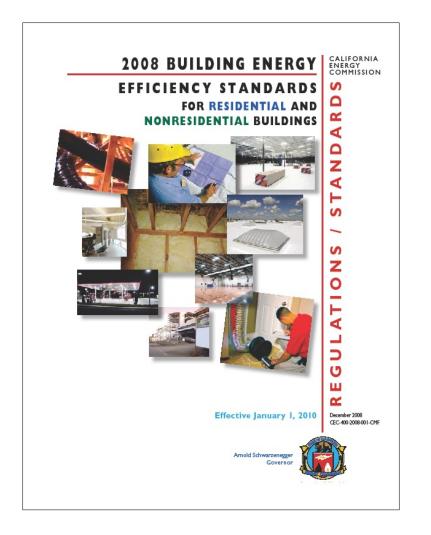
# Goals for this Presentation

- Simplify Energy Standards requirements for HVAC changeouts in Climate Zones 1 and 3 through 7
- Clarify roles and responsibilities for:
  - Building Department Professionals
  - -HVAC Contractors
  - -HERS Raters



# 2008 Energy Standards

- Effective Date on January 1, 2010:
  - Building Permit
     Applications submitted on or after this date
- As of October 1, 2010:
  - All Energy Compliance
     Forms required to be
     registered when HERS
     Verification/Testing is
     required





# When is Compliance Required?



- New HVAC installation
- HVAC Changeout
- New or replacement furnace, coil, FAU, or condenser
- HVAC unit relocation
- New or replacement spaceconditioning system (equipment and ducting)
- New or replacement ducting



# **Compliance Forms**

** I am eighbe under Division 3 of the California Business Certificates of Compliance.  ** I certify hat the swergy festerates and performance specifical representations of the California Certificates of Compliance.  ** To design features Mentified on the Certificate of Compliance agreements.**  **Space Conditioning Systems**  **Heating Equipment**  **Space Conditioning Systems**  **Heating Equipment**  **Space Conditioning Systems**  **Heating Equipment**  **Bedience Systems**  **Heating Equipment**  **Bedience Systems**	Site Address:			Enforcement Agen	cy:		Date:	Permit#:	1					
Part				Conditioned	Duct insul	lation			-					
Secretary of the stands   Secretary of the	Equipment Type <sup>1</sup>	List Minimus	n Efficiency <sup>2</sup>		requiren	sent	Ther	mostat						
East part   Type: Choose the equipment being installed. If   East part   East part part   East part part   East part part	Furnace Indoor Coil Condensing Unit	SEER 13	☐ HSPF	Served by system 1,500 sf	added or repl	aced in	Sefback (If not already pre	sent, must be						
NSTALLATION CERTIFICATE   CF-68-NECE	. Equipment Type: C													
Space Conditioning Systems, Ducts and Fans   Enterpress					INSTALLA	TION	ERTIFICAT	E					CF-6R-	MECH-04
Certificate of Compliance.  Loreity data the energy totates and performance specific requirements of Tide 24, Part 1 and 6 of the California Compliance.  The design features sterified on the Certificate of Compliance appeals of the California Compliance.  Specific Controllers  Makesset 1516 9th Street  City/Smart/Sp: Sacramento, CA 95814  Furnace CEC: Centified Mfr. Name Reference Sumble 3 Systems  Furnace CEC: Conf. R. A4413114 5411.25445 1 Sept.  Cooling Equipment  Cooling Equipment  Cooling Equipment  Cooling Equipment  Cooling Equipment  Cooling Equipment  CEC: Centified Mfr. Name Reference Sumble 3 Systems (CF-12, System)  Furnace CEC: Conf. R. A4413114 5411.25445 1 Sept.  Cooling Equipment  Cooling Equipment  Cooling Equipment  Cooling Equipment  Cooling Equipment  CEC: Centified Mfr. Name Part Specified Systems Sumble 3 Systems Sumble 4 Sept.  CEC: Centified Mfr. Name Reference Sumble 3 Systems Sumble 4 Sept.  Spite CEC: Centified Mfr. Name Part Spite Sept.  CEC: Centified Mfr. Name Part Spite Sept.  CEC: Centified Mfr. Name Part Spite Spi														age 1 of 2)
**Space Conditioning Systems**  Space Conditioning Space Spa			California Business		Site Address:	Cacramar	oto CA 05016			Enforcement	nt Agency:	Pe	rmit Number	
**To de daugh features identified on this Certificate of Complace General Complace General Conference on Complace General General Complace General General Complace General G			performance specifi		1310 9 Suees,	Secremen	110, CA 93810			Energy Con	mmssion	0,	0111-11	
ocomplane farms, workshees, each desired to Campagonian and Spanian and Spania					Space Con	ditionir	ng Systems							
Agriculture of the part of the	compliance forms.	s stemmed on this , worksheets, calcul	ations, plans and s	Pa	•									
Discriment   Dis		Efficient		-l i						г —	г —			
Equip Type (package best pump) and Model Number   Section   Sect				-						Des.i				
CEC Certified Mft. Name Best summy and Model Number    System   Special   System   S	CEC IIIs			4	Equip					(AFUE,	(attic,			
Dut Cooling Equipment    Cooling Equipment   Cooling Equipment   Spite   Spite	1310 9th				Type	CEC Con	rtified Mfr Name	ARI Reference	# of Identical	etc.) <sup>1,3</sup> (>CF-1P		Duct	Heating Load	Heating Capacity
Cooling Equipment    Equip Type (Geo. Part of the CEC Certified Mfr. Name ARI Reference   Identical Continue and EER) (Geo. Part of the CEC (Geo. Part of the CEC)   Identical Cooling	City/State/Zip: Sacra	mento, CA 95	5814											(Btu/hr)
Equip Type (psckage best end Model Number and N					Furnace	CEC's C	ool: RA-061511-0	5612-25465	1	85%	Attic	R-6	60 kBeu/hr	70 kBtu/hr
Equip Type (package best pump) and Model Number Number 1 Systems   Dott (SEER Lacottion and EER) (Seint pump)    Spite CEC's Hear; IC 41151106   13564-5421   1   14.0   Artic   R.6   Break   Break    I I flyreject is new construction, see Footnotes to Standard: Table 151-B and Table 151-C for duct ceiling alternative compliance.  2. AEL Reference Number can be found by entering the equipment model number at http://www.ardirectory.org/car/cac.phj  3. Listed efficiency on this page must be greater than or equal to the value shown on the CF-1R form.  4. When CF-1R it reference is in size applicable to the CF-1R, CF-1R-ALT CF-1R-ALT CF-1R-ALT SLIFE COMMING.  Spite State of the contraction of the contraction of the cF-1R form.  Listed efficiency on the cF-1R form.  Equipment is also applicable to the CF-1R, CF-1R-ALT CF-1R-ALT CF-1R-ALT SLIFE COMMING.  Spite State of the contraction of the cF-1R form.  Equipment is also applicable to the CF-1R CF-1R-ALT CF-1R-ALT CF-1R-ALT CF-1R-ALT CF-1R-ALT SLIFE COMMING.  Spite State of the contraction of the cF-1R form.  Equipment is also applicable to the CF-1R cF-1R-ALT CF-1R-ALT CF-1R-ALT SLIFE CF-1R-ALT CF-1R-ALT CF-1R-ALT SLIFE CF-1R-ALT CF-1R-ALT CF-1R-ALT CALT SLIFE CF-1R-ALT CF-1R-ALT CF-1R-ALT CALT SLIFE CF-1R-ALT														
Equip Type (package best pump) and Model Number Number 1 Systems   Dott (SEER Lacottion and EER) (Seint pump)    Spite CEC's Hear; IC 41151106   13564-5421   1   14.0   Artic   R.6   Break   Break    I I flyreject is new construction, see Footnotes to Standard: Table 151-B and Table 151-C for duct ceiling alternative compliance.  2. AEL Reference Number can be found by entering the equipment model number at http://www.ardirectory.org/car/cac.phj  3. Listed efficiency on this page must be greater than or equal to the value shown on the CF-1R form.  4. When CF-1R it reference is in size applicable to the CF-1R, CF-1R-ALT CF-1R-ALT CF-1R-ALT SLIFE COMMING.  Spite State of the contraction of the contraction of the cF-1R form.  Listed efficiency on the cF-1R form.  Equipment is also applicable to the CF-1R, CF-1R-ALT CF-1R-ALT CF-1R-ALT SLIFE COMMING.  Spite State of the contraction of the cF-1R form.  Equipment is also applicable to the CF-1R CF-1R-ALT CF-1R-ALT CF-1R-ALT CF-1R-ALT CF-1R-ALT SLIFE COMMING.  Spite State of the contraction of the cF-1R form.  Equipment is also applicable to the CF-1R cF-1R-ALT CF-1R-ALT CF-1R-ALT SLIFE CF-1R-ALT CF-1R-ALT CF-1R-ALT SLIFE CF-1R-ALT CF-1R-ALT CF-1R-ALT CALT SLIFE CF-1R-ALT CF-1R-ALT CF-1R-ALT CALT SLIFE CF-1R-ALT														
Equip Type (package best pump) and Model Number Number 1 Systems   Dott (SEER Lacottion and EER) (Seint pump)    Spite CEC's Hear; IC 41151106   13564-5421   1   14.0   Artic   R.6   Break   Break    I I flyreject is new construction, see Footnotes to Standard: Table 151-B and Table 151-C for duct ceiling alternative compliance.  2. AEL Reference Number can be found by entering the equipment model number at http://www.ardirectory.org/car/cac.phj  3. Listed efficiency on this page must be greater than or equal to the value shown on the CF-1R form.  4. When CF-1R it reference is in size applicable to the CF-1R, CF-1R-ALT CF-1R-ALT CF-1R-ALT SLIFE COMMING.  Spite State of the contraction of the contraction of the cF-1R form.  Listed efficiency on the cF-1R form.  Equipment is also applicable to the CF-1R, CF-1R-ALT CF-1R-ALT CF-1R-ALT SLIFE COMMING.  Spite State of the contraction of the cF-1R form.  Equipment is also applicable to the CF-1R CF-1R-ALT CF-1R-ALT CF-1R-ALT CF-1R-ALT CF-1R-ALT SLIFE COMMING.  Spite State of the contraction of the cF-1R form.  Equipment is also applicable to the CF-1R cF-1R-ALT CF-1R-ALT CF-1R-ALT SLIFE CF-1R-ALT CF-1R-ALT CF-1R-ALT SLIFE CF-1R-ALT CF-1R-ALT CF-1R-ALT CALT SLIFE CF-1R-ALT CF-1R-ALT CF-1R-ALT CALT SLIFE CF-1R-ALT														
Equip Type (package heart and Model Number and Numbe														
Equip Type (package best pump) and Model Number and Number														
Equip Type (package best pump) and Model Number and Number														
Equip Type (secting of the pump) and Model Number and Model Number (and EEX) (critical Cooling				'	Cooling Equi	pment				<u> </u>				
Equip Type (secting of the pump) and Model Number and Model Number (and EEX) (critical Cooling														
1. Uproject is new construction, see Footnotes to Standards Table 151-B and Table 151-C for duct calling alternative compliance.   2. ARI Reference Number can be found by entering the equipment model number at http://www.aridirectory.org/sari/ac.phj   3. Listed efficiency on this page must be greater than or equal (2) to the value shown on the CF-1R form.   4. When CF-1R is reference it is also applicable to the CF-1R, CF-1R-AL or CF-1R-ALT    ALL BOXES MUST BE CHECKED TO BE A VALID FORM   S   110-4113: HVAC equipment is certified by the California Energy Commission.   S   5100): Heating and/or cooling loads calculated in accordance with ASHRAE, SMACNA, or ACCA.					Type (package heat			ARI Reference Number <sup>2</sup>	Identical	(SEER and EER) 1,3 (2CF-1R	Location (attic, crawl- space,		Load	Cooling Capacity (Btu/hr)
Compliance   2. AEI Reference Number can be found by entering the equipment model number at http://www.aristirectory.org/ari/ac.phj 3. Listed efficiency on this page must be greater than or equal (≥) to the value shown on the CF-1R form.  4. When CF-1R is reference it is also applicable to the CF-1R, CF-1R-AL or CF-1R-ALT  ALL BOXES MUST BE CHECKED TO BE A VALID TO BE A VALID TO BE A VALID STAND ST					Split	CEC's H	eat; IC-01151106	13564-5421	1	14.0	Attic	R-6		36,000 Btu/hr
Compliance   2. AEI Reference Number can be found by entering the equipment model number at http://www.aristirectory.org/ari/ac.phj 3. Listed efficiency on this page must be greater than or equal (≥) to the value shown on the CF-1R form.  4. When CF-1R is reference it is also applicable to the CF-1R, CF-1R-AL or CF-1R-ALT  ALL BOXES MUST BE CHECKED TO BE A VALID TO BE A VALID TO BE A VALID STAND ST														
compliance.  2. AEL Reference Number can be found by entering the equipment model number at http://www.aristirectory.org/ari/ac.phj 3. Listed efficiency on this page must be greater than or equal (≥) to the value shown on the CF-1R form.  4. When CF-1R is reference it is due applicable to the CF-1R, CF-1R-AL or CF-1R-ALT  ALL BOXES MUST BE CHECKED TO BE A VALID TO BE A VALID TO BE A VALID STAND STA														
compliance.  2. AEL Reference Number can be found by entering the equipment model number at http://www.aristirectory.org/ari/ac.phj 3. Listed efficiency on this page must be greater than or equal (≥) to the value shown on the CF-1R form.  4. When CF-1R is reference it is due applicable to the CF-1R, CF-1R-AL or CF-1R-ALT  ALL BOXES MUST BE CHECKED TO BE A VALID TO BE A VALID TO BE A VALID STAND STA														
compliance.  2. AEL Reference Number can be found by entering the equipment model number at http://www.aristirectory.org/ari/ac.phj 3. Listed efficiency on this page must be greater than or equal (≥) to the value shown on the CF-1R form.  4. When CF-1R is reference it is due applicable to the CF-1R, CF-1R-AL or CF-1R-ALT  ALL BOXES MUST BE CHECKED TO BE A VALID TO BE A VALID TO BE A VALID STAND STA														
Compliance   2. AEI Reference Number can be found by entering the equipment model number at http://www.aristirectory.org/ari/ac.phj 3. Listed efficiency on this page must be greater than or equal (≥) to the value shown on the CF-1R form.  4. When CF-1R is reference it is also applicable to the CF-1R, CF-1R-AL or CF-1R-ALT  ALL BOXES MUST BE CHECKED TO BE A VALID TO BE A VALID TO BE A VALID STAND ST									i					
compliance.  2. AEL Reference Number can be found by entering the equipment model number at http://www.aristirectory.org/ari/ac.phj 3. Listed efficiency on this page must be greater than or equal (≥) to the value shown on the CF-1R form.  4. When CF-1R is reference it is due applicable to the CF-1R, CF-1R-AL or CF-1R-ALT  ALL BOXES MUST BE CHECKED TO BE A VALID TO BE A VALID TO BE A VALID STAND STA					1. If project is	new con	struction, see Fe	ootnotes to Stand	ards Table	151-B and :	Table 151-	C for duct	ceiling alter	native
⊠ §110-§113: HVAC equipment is certified by the California Energy Commission.              \[	008 Residential Com	pliance Forms			2. ARI Referen 3. Listed effici 4. When CF-1.	ency on t R is refer	his page must be rence it is also ap	greater than or e plicable to the Ci	qual (≥) i F-1R, CF-1	o the value s R-AA or CF	hown on th			ri/ac.php#
∑ §150(h): Heating and/or cooling loads calculated in accordance with ASHRAE, SMACNA, or ACCA.														
												CNIA	ACCA	
														2/->
<ul> <li>§150(i): Serback Thermostat on all applicable heating and/or cooling systems meet the requirements of §112(c).</li> <li>§150(i)2: Pipe insulation for cooling system refrigerant suction, chilled water and brine lines meets minimum</li> </ul>														

2008 Residential Compliance Forms

- Compliance forms are
   NOT required to be
   registered in Climate
   Zones 1 and 3 through 7
- Why?
  - Registration is required only when HERS testing is required
- <u>ALL</u> compliance forms may be completed by hand or electronically (PDF) in these Cl. Zn.'s



# **CF-1R-HVAC-ALT form**

- Which compliance form is required for a permit?
  - Installing contractor
     completes CF-1R-ALT HVAC (by hand or
     electronically PDF)
  - Installing contractor identifies:
    - Efficiency values of altered equipment
    - Duct insulation values for altered ducting

Simplified Prescr Climate Zones 1 and	•	ite of Compilar	nce: 200	o Kesiaei	uuu HVAC	Anerun	ms CI-II	R-ALT-HVAC
Sùe Address:				Enforcement Agency:			Date:	Permit #:
Equipment Type <sup>1</sup>	List Minimu		itioned r Area	Duct insul requiren		Ti	ermostat	
Packaged Unit Furnace Indoor Coil Condensing Unit Other	□ AFUE □ COP □ Served by system added or replaced in     Sefback   Great   Sefback   Find a least   Find a lea					oresent, must be		
I. Equipment Type: 0 2. Minimum Equipme Contractor (Docum	ent Efficiencies: 13	SEER, 78% AFU	E, 7.7HSF	F for typic	al residential sy	stems.	LT-HVAC for	each system.
I certify that this ( I am eligible unde Certificate of Com I certify that the e requirements of T The design feature compliance forms	Certificate of Comp r Division 3 of the apliance.	liance documentati California Busines performance specif 6 of the California Certificate of Con	ion is accu s and Prof fications fo Code of B apliance as	rate and co essions Coo or the desig tegulations. te consisten	mplete. le to accept resp n identified on t t with the infon	ponsibility this Certifi mation do	icate of Compli	ance conform to the
application. Name: Mr. Energy Efficient				Signature:				
Company: CEC Installers						Date: §	3/26/11	
Address: 1516 9th Street						License:	EC#: 46512	2-469845
City/State/Zip: Sacramento, CA 95814					Phone: 1-800-772-3300			

2008 Residential Compliance Forms

March 2010



# CF-6R-MECH-04 form

- Installing contractor shall complete CF-6R-MECH-04 for **ALL** changeouts and include:
  - Efficiency values of altered/new equipment and manufacturer info. (i.e. model #)
  - Duct insulation value for altered/ new ducting
  - Heating/Cooling loads when equipment size is altered
  - Provide copy to Inspector for Final and homeowner

INSTALLATION CERTIFICATE		CF-6R-MECH-04
Space Conditioning Systems, Ducts and Fans		(Page 1 of 2)
Site Address: 1516 9th Street, Sacramento, CA 95816	Enforcement Agency: Energy Commission	Permit Number: 070111-11

#### Space Conditioning Systems

Equip Type (package- heat pump)	CEC Certified Mfr. Name and Model Number	ARI Reference Number <sup>2</sup>	# of Identical Systems	Efficiency (AFUE, etc.) <sup>1,3</sup> (2CF-1R value) <sup>4</sup>	Duct Location (attic, crawl- space, etc.)	Duct R-value	Heating Load (Btu/hr)	Heating Capacity (Btu/hr)
Furnace	CEC's Cool; RA-061511-0	5612-25465	1	85%	Attic	R-6	60 kBtu/hr	70 kBtu/hr

Equip Type (package heat pump)	CEC Certified Mfr. Name and Model Number	ARI Reference Number <sup>2</sup>	# of Identical Systems	Efficiency (SEER and EER) 1,3 (2CF-1R value) 4	Duct Location (attic, crawl- space, etc.)	Duct R-value	Cooling Load (Btu/hr)	Cooling Capacity (Btu/hr)
Split	CEC': Heat; IC-01151106	13564-5421	1	14.0	Attic	R-6	34,500 Btu/hr	36,000 Btu/hr

- compliance.

  2. ARI Reference Number can be found by entering the equipment model number at http://www.aridirectory.org/ari/ac.php
- Listed efficiency on this page must be greater than or equal (≥) to the value shown on the CF-1R form
   When CF-1R is reference it is also applicable to the CF-1R, CF-1R-AA or CF-1R-ALT

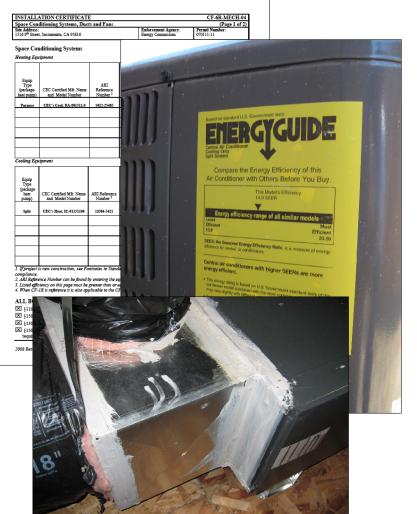
#### ALL BOXES MUST BE CHECKED TO BE A VALID FORM

- §110-§113: HVAC equipment is certified by the California Energy Commission.
- §150(h): Heating and/or cooling loads calculated in accordance with ASHRAE, SMACNA, or ACCA.
- §150(i): Setback Thermostat on all applicable heating and/or cooling systems meet the requirements of §112(c).
- [X] §150(j)2: Pipe insulation for cooling system refrigerant suction, chilled water and brine lines meets minimum requirements of Table 150-B and includes a vapor retardant or is enclosed entirely in conditioned space.

2008 Residential Compliance Forms



# **Final Inspection**



- What does the Inspector verify?
  - Depends on the "type" of HVAC changeout:
    - >HVAC Changeout
    - ➤ New HVAC System
    - New ducts with Replacement
    - ➤ New/replaced ducts ONLY



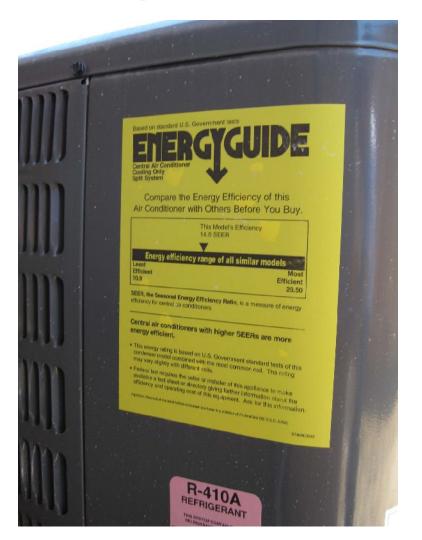
# **HVAC Changeout**

### Equipment is replaced

- Condenser Coil and/or
- Indoor Coil and/or
- Furnace

#### • Installation Certificate

- CF-6R-MECH-04
  - ➤ Minimum efficiency values of altered equipment (13 SEER and/or 78% AFUE)
  - ➤ Heating/Cooling loads if equipment size was altered
  - ➤ <u>NOTE</u>: Model # on equipment should match model # on form





# Gas Wall/Floor Furnaces and Space Heaters

Table E-2
Standards for Gas Wall Furnaces. Floor Furnaces, and Room Heaters

Appliance	Design Type	Capacity (Btu per hour)	Minimum AFUE (%)
Wall furnace	Fan	≤ 42,000	73
Wall furnace	Fan	> 42,000	74
Wall furnace	Gravity	≤ 10,000	59
Wall furnace	Gravity	> 10,000 ≤ 12,000	60
Wall furnace	Gravity	> 12,000 ≤ 15,000	61
Wall furnace	Gravity	> 15,000 ≤ 19,000	62
Wall furnace	Gravity	> 19,000 ≤ 27,000	63
Wall furnace	Gravity	> 27,000 ≤ 48,000	64
Wall furnace	Gravity	> 46,000	65
Floor furnace	All	≤ 37,000	56
Floor furnace	All	> 37,000	57
Room heater	All	≤ 18,000	57
Room heater	All	> 18,000 and ≤ 20,000	58
Room heater	All	> 20,000 and ≤ 27,000	63
Room heater	All	> 27,000 and ≤ 46,000	64
Room heater	All	> 46,000	65

- Minimum efficiency
  (AFUE) requirements
  are different for nonducted, non-central gas
  fired heating equipment
- Shall meet minimum efficiencies listed in Table E-2 of the 2010 Appliance Regulations



# **New HVAC System**

- New or replacement spaceconditioning system
  - All new HVAC equipment, and
  - All new ducting
- Installation Certificate
  - CF-6R-MECH-04
    - ➤ Minimum efficiency values of new equipment (13 SEER and/or 78% AFUE)
    - ➤ Duct insulation R-value (R-4.2)
    - ➤ Heating/Cooling loads if equipment size was altered
    - ➤ <u>NOTE</u>: Model # on equipment should match model # on form





# New HVAC System cont.





- Are ducts and plenums connected and sealed per Section 150(m)?
  - UL181, UL181A, UL181B tape required
  - Cloth-backed rubber adhesive tape must be used in combination with mastic and/ or drawbands
    - Tape may be used by itself ONLY when backing says "CEC Approved"

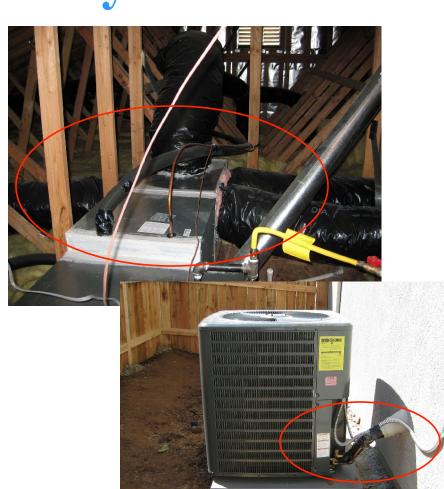


# New HVAC System cont.

## Is new refrigerant suction line insulated per

#### **Table 150-B?**

- Pipe diameter ≤ 2 inches shall have min. insulation thickness of 0.75 inches
- Pipe diameter > 2 inches shall have min. insulation thickness of 1.0 inch
- And protected per Section 150(j)?
  - Insulation shall be protected by aluminum, sheet metal, painted canvas, or plastic cover





# New Ducts with Replacement



- All new or replacement ducting, and:
  - Condenser Coil and/or
  - Indoor Coil and/or
  - Furnace
- Installation Certificate
  - CF-6R-MECH-04
    - ➤ Duct insulation R-value (R-4.2)
    - ➤ Minimum efficiency values of new equipment (13 SEER and/or 78% AFUE)
    - ➤ Heating/Cooling loads if equipment size was altered
    - ➤ <u>NOTE</u>: Model # on equipment should match model # on form



# New Ducts with Replacement cont.

- Are ducts and plenums connected and sealed per Section 150(m)?
  - UL181, UL181A, UL181B tape required
  - Cloth-backed rubber adhesive tape must be used in combination with mastic and/or drawbands
    - Tape may be used by itself ONLY when backing says "CEC Approved"





# New/Replaced Ducts ONLY

- New or replacement ducting <u>only</u>
  - No HVAC equipment is altered
- Installation Certificate
  - CF-6R-MECH-04
    - ➤ Duct insulation R-value (R-4.2)
- Are ducts and plenums connected and sealed per Section 150(m)?
  - UL181, UL181A, UL181B tape required
  - Cloth-backed rubber adhesive tape must be used in combination with mastic and/or drawbands
    - > Tape may be used by itself ONLY when backing says "CEC Approved"



# **Correction Notice**

CORRECTION NOTICE	
(California Energy Commission)	ì

THE ENERGY COMMISSION HAS INSPECTED YOUR ALTERATION PROJECT AND HAVE NOTED THE FOLLOWING CORRECTIONS:

Install refrigerant lineset insulation with thickness
of at least 1.0 inch for piping greater than 2 inches
per 2008 Energy Standards Table 150-B and §150(j)2.

☑ REINSPECTION REQUIRED. CALL THE ENERGY COMMISSION FOR ANOTHER INSPECTION AFTER THE CORRECTIONS ABOVE ARE COMPLETE.

□ REINSPECTION IS NOT REQUIRED.

INSPECTOR

DATE

ENERGY COMMISSION INSPECTOR

8/26/11

 A correction notice shall be issued when Inspector finds noncompliance with 2008 Energy Standards.

- i.e. "Altered ducts shall be properly installed and sealed per §150(m)"
- Sample correction notice statements for each Standard Section may be found in the 2008 Residential Energy Inspection Guide for Alterations



# For More Information

- Online Learning Center www.energyvideos.com
  - Download Energy Checklist and Guides
  - View Energy Videos and Energy Courses
- Energy Standards Hotline
  - 1 (800) 772-3300 (Free in CA)
  - (916) 654-5106 (Public)
  - title24@energy.state.ca.us

