



City of Colton

Development Services Department

Building Division
659 North La Cadena Drive
Colton, CA 92324
(909) 370-5079

HVAC Building Permit Requirements

Effective January 1, 2020 the City of Colton adopted the 2019 California Building, Electrical, Plumbing, Mechanical, Green Building, Energy and Fire Codes. (Title 24)

General Information

Permits may be obtained through one of the following:

- The Property Owner or his/her Insured California State Licensed Contractor:
 - C-20 HVAC contractor or a B licensed contractor **ONLY** in conjunction with the required multiple trade(s) requirements of the California State License Board 7057. (b):

“A general building contractor shall not take a prime contract for any project involving trades other than framing or carpentry unless the prime contract requires at least 2 unrelated building trades... unless the contractor holds the appropriate license classifications or subcontracts with an appropriate licensed specialty contractor to perform the work.”

- If the HVAC system is to be installed outside of the building, the following will be required:
 - Planning Approval prior to Permit Issuance.
 - A site plan with existing and/or proposed location.

Documents Required

All forms are required to be of the physical type at time of permit submittal.

- Permit Application completed and signed.
- Picture ID of Owner/Licensed Contractor or:
 - Notarized Letter of Authorization if agent of Owner/Licensed Contractor
- CF1R – Residential Alteration for HVAC form completed and signed.
- Site Plan required for all HVAC installations.

Required Inspections

Required Inspections are based on the type of Installation being done.

- Change out at same location:
 - Final Inspection:
 - *Once all work has been completed.*
- New Location Installation:
 - 1st Inspection – Rough Mechanical, Rough Electrical and Gas Test:
 - *Connections to the mechanical unit, electrical system, gas piping, and Gas Test.*
 - 2nd Inspection – Final Inspection:
 - *Once all work including patchwork to any walls are complete.*
- Final Paperwork Required at time of Final Inspection:
 - CF2R and CF3R
 - *CF3R is not required for Wall Furnaces.*

ALTERATIONS - HVAC

CEC-CF1R-ALT-04-E (Revised 03/15)

CALIFORNIA ENERGY COMMISSION



CERTIFICATE OF COMPLIANCE

CF1R-ALT-04-E

Alterations - HVAC CZ 2, and 8-15 (formerly CF-1R-ALT-HVAC)

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Site Address:		Enforcement Agency:		Date Prepared:	Permit#:
Equipment Type		Equipment Efficiency		New Ducting, Plenums, Lineset: Required R-value	Conditioned Floor Area (sq ft) Served by system _____sqft
<input type="checkbox"/> Packaged System <input type="checkbox"/> Split System <input type="checkbox"/> Mini Split <input type="checkbox"/> Furnace	<input type="checkbox"/> Evaporator Coil <input type="checkbox"/> Condensing Unit <input type="checkbox"/> Compressor <input type="checkbox"/> Lineset <input type="checkbox"/> TXV	_____AFUE _____SEER _____EER	_____COP _____HSPF	<input type="checkbox"/> R-6 (CZ 2, 8-13) Ducting <input type="checkbox"/> R-8 ¹ (CZ 11, 14, 15) Ducting <input type="checkbox"/> R-6 (all CZ's) Plenums <input type="checkbox"/> R-5 or R7.5) Lineset ⁴	<input type="checkbox"/> 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 filled out by hand. For final inspection all forms are to be registered (no hand filled forms allowed) and a copy left on site.					
<input type="checkbox"/> 1. HVAC Changeout/Repair		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)		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 ($\leq 15\%$, or $\leq 10\%$ to outside, or seal all accessible leaks), Air Flow ≥ 300 CFM/ton, Refrigerant Charge. Exempted from duct leakage testing if: <input type="checkbox"/> 1. Duct system registered with HERS provider as previously sealed, or <input type="checkbox"/> 2. There is less than 40 linear feet of duct in unconditioned space, or <input type="checkbox"/> 3. Existing duct systems are constructed, insulated or sealed with asbestos (list manufacture date of building _____)					
<input type="checkbox"/> 2. New HVAC System		Required Compliance Documents to be left on site for Final:			
All new equipment and All New Ducts ³ including Mini Split		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: Duct leakage $\leq 6\%$, Fan Efficacy (.58W/CFM), Air Flow ≥ 350 CFM/ton (or alternative), Refrigerant Charge					
<input type="checkbox"/> 3. All New Ducts with Replacement		Required Compliance Documents to be left on site for Final:			
All New Ducts ³ and one or more of the following replaced: Condenser Unit, Evaporator Coil, Compressor, TXV, Lineset, Furnace ²		CF1R-ALT-02-E CF2R: MECH-01, 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 ≥ 350 CFM/ton (or alternative), Refrigerant Charge Exempted from duct leakage testing if: <input type="checkbox"/> 1. Existing duct systems are constructed, insulated or sealed with asbestos					
<input type="checkbox"/> 4. New Ducting over 40 feet		Required Compliance Documents to be left on site for Final:			
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 ($\leq 15\%$ or, $\leq 10\%$ to outside or, or seal all accessible leaks) <input type="checkbox"/> EXCEPTION: Existing duct systems constructed, insulated or sealed with asbestos.					
¹ 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. ² Heating only systems and Air Handler/Furnace changes do not require Air Flow MECH-(23 or 24), or Refrigerant Charge verification MECH-25 ³ 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) ⁴ 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:					
1. The information provided on this Certificate of Compliance is true and correct.					
2. I am eligible under Division 3 of the California Business and Professions Code to accept responsibility for the information on this document.					
3. 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).					
4. 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.					
5. 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 Designer Signature:		Date Signed:	License:
Company :		Address:		City/State/Zip:	Phone:

For assistance or questions regarding the Energy Standards, contact the Energy Hotline at: 1-800-772-3300