



City of Colton

Development Services Department

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

Water Heater 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-36 Plumbing 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 Water Heater 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.
- Tank-less Water Heaters:
 - It is common for a tank-less water heater to require up to 5 times the typical BTU input of a standard water heater. Consequently, the gas line to the existing tank type water heater in a retrofit application may not have sufficient capacity to supply a tank-less water heater. New dedicated supply lines or an upsize to the existing supply lines may be required.

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
- CFIR – Residential Alteration for Water Heater form completed and signed.
- Site Plan required for all Water Heater 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 Plumbing:
 - *Connections to the plumbing system within the walls.*
 - 2nd Inspection – Final Inspection:
 - *Once all work including patchwork to any walls are complete.*

STATE OF CALIFORNIA
RESIDENTIAL ALTERATIONS – WATER HEATER
 CEC-CF1R-ALT-01-E (Revised 06/14)

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	CF1R-ALT-01-E	WATER HEATER
Prescriptive Residential Alterations for Water Heater (Page 1 of 2)		

A. GENERAL INFORMATION	
Site address:	Building Type: <input type="checkbox"/> Single Family Dwelling <input type="checkbox"/> Multi Family Dwellings
City, Zip Code:	Climate Zone: 10

G. WATER HEATING SYSTEMS (Section 150.2(b)1G)														
01	02	03	04	05	06	07	08	09	10	11	12	13	14	15
Water Heating System Identification or Name	Water Heating System Type	Water Heater Type	# of Water Heaters in system	Water Heater Storage Volume (gal)	Fuel Type	Rated Input Type	Rated Input Value	Heating Efficiency Type	Heating Efficiency Value	Standby Loss (%)	Exterior Insul. R-Value	Back-Up Solar Savings Fraction	Central DHW System Distribution Type	Dwelling Unit DHW System Distribution Type

WATER HEATING SYSTEMS

Water heating compliance for an alteration is described in Section 150.2(b)1G. For single dwelling a gas or propane water heater, with a storage tank of 60 gallons maximum or instantaneous (tankless) can be used. Dwelling Unit distribution systems are limited to Standard trunk and branch or demand recirculation for gas or propane water heater. Demand recirculation is not allowed for electric water heater. If there is no natural gas connected to the building, an electric water heater may be replaced with another electric water heater. However, changing from gas to electric is not allowed. Multi-family central systems must use certified equipment as defined under Section 110.1 and 110.3.

NOTE: if the proposed installation does not meet the requirements allowed specifically for alterations, use form CF1R-NCB-01 to document the water heater alteration.

Instructions for sections with column numbers are given below:

- Water Heating System Identification or Name:** enter a unique name for the Water Heating System.
- Water heating system type:** Domestic Hot Water (DHW), Hydronic, Combined Hydronic, or Central. DHW is for domestic hot water, hydronic is a water heating system used for space heating only; combined hydronic are when the water heater will provide both space conditioning and domestic hot water.
- Water heater type:** For non-central systems only Small Storage or Small Instantaneous are allowed. For central systems pick from Large Storage, Small Storage, Heat Pump, Boiler, Large Instantaneous, Small Instantaneous or Indirect.

CERTIFICATE OF COMPLIANCE**CFJR-ALT-01-E WATER HEATER**

Prescriptive Residential Alterations for Water Heater

(Page 2 of 2)

4. **Number of water heaters in system:** In single-family and multi-family with water heaters in each dwelling units the value is 1. For multi-family central systems serving multiple dwelling units enter the total number of water heaters.
5. **Water heater volume (gal):** tank capacity in gallons. For individual water heaters for a dwelling unit this will be 60 gallons or less. If instantaneous, enter n/a. For multi-family central systems enter the total storage volume.
6. **Fuel Type:** Gas, Propane, Electric (Only if natural gas is not available)
7. **Rated Input Type:** Enter the equipment input rating type, for gas or propane fired units are Btuh, for electric fired system the units are kW.
8. **Rated Input Value:** Enter the numeric value of rated input.
9. **Heating Efficiency Type:** Energy Factor, AFUE, or Thermal Efficiency. From product literature or a California Energy Commission directory.
10. **Heating Efficiency Value:** Enter the value from product literature or a California Energy Commission directory
11. **Standby Loss (percent):** Applies only to large storage water heaters, Enter n/a for small storage or instantaneous water heaters.
12. **Exterior Insulation R-Value:** Enter the R-value if exterior insulation on the storage tank is installed
13. **Back-up solar savings fraction:** If compliance requires a back-up solar system, indicate the solar contribution (e.g., 0.30). External calculations are required.
14. **Central DHW Distribution System:** For multi-family buildings with using a central distribution system a demand recirculation system with at least two distribution loops must be installed. This requirement applies to any building with eight or more units. If the system is non-central or project is individual units enter n/a.
15. **Dwelling Unit DHW Distribution Type:** For a Central DHW this field shall be Standard. If non-central then pick from Standard, Demand Recirculation – Manual Control, Demand Recirculation – Sensor Control. If non-central electric water heater this must be Standard, no recirculation system shall be installed.

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

• I certify that this Certificate of Compliance documentation is accurate and complete.

Name:	<input type="checkbox"/> Owner <input type="checkbox"/> Authorized agent <input type="checkbox"/> Contractor	Signature:
Company :		Contractor license #:
Address:		Phone:
City/State/Zip:		Date:

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