

MECHANICAL CODE

~~2022~~ 2025 Edition

[Includes legislation adopted by the Board of Supervisors through December 31, ~~2022~~]



Copyright © ~~2023~~

by

THE CITY AND COUNTY OF SAN FRANCISCO

A Municipal Corporation

All rights reserved. No part of this publication may be reproduced or distributed by any means or stored in a database or retrieval system without prior written permission of the City and County of San Francisco.

PUBLISHER'S NOTE

The full ~~2022~~ 2025 San Francisco Mechanical Code consists of the ~~2022~~ 2025 California Mechanical Code, and as further amended by these San Francisco amendments.

The San Francisco Mechanical Code amendments contained herein are designed to be used in conjunction with the ~~2022~~ 2025 California Mechanical Code.

The San Francisco Mechanical Code amendments contained herein were adopted by the Board of Supervisors of the City and County of San Francisco on ~~November 10, 2022~~, by Ordinance ~~228-22~~, effective ~~December 11, 2022~~, and operative January 1, ~~2023~~ 2026.

~~2022~~ 2025 California Mechanical Code

+

~~2022~~ 2025 San Francisco Amendments



**Complete
San Francisco
Mechanical Code**

Supplements to this Code and complete copies of all seven
Building Inspection Commission (BIC) Codes

(Building, Electrical, Existing Building, Green Building, Housing, Mechanical, and Plumbing)
can be ordered from:

AMERICAN LEGAL PUBLISHING CORPORATION

Cincinnati, Ohio 45202

800-445-5588

Fax: 513-763-3562

www.amlegal.com

PREFACE

Text Format:

The text in this publication is formatted to allow the user to quickly and easily determine the source of the included material. Language derived from the ~~2022~~ 2025 California Code that is *unchanged* by local amendment is printed in shaded text (see below). Language constituting San Francisco *amendments* to the California Code is printed in unformatted (or “plain”) text. In either case, bold and/or italic typefaces may be used as appropriate for emphasis, etc. See below for examples.

To further simplify use of the San Francisco amendments with corresponding sections of the ~~2022~~ 2025 California Code, explanatory remarks appearing in italics are provided (in boxes at the beginning of affected provisions) indicating whether the San Francisco amendment to the California Code is adding, revising, or replacing a section or portion of a section.

To summarize:

Explanatory remarks are boxed and italicized.

Unchanged language from the ~~2022~~ 2025 California Code is shaded, and may include **bold** and/or *italicized* formatting.

San Francisco amendments are printed in unformatted (“plain”) text, and may include **bold** and/or *italicized* formatting.

Marginal Markings:

An arrow [←] represents the location of language that has been deleted by San Francisco from the ~~2022~~ 2025 California Code.

A solid line represents a change from the original published edition of the ~~2022~~ 2025 San Francisco Mechanical Code.

Historical Notations:

Language which has been added, amended, or deleted from the ~~2022~~ 2025 publication of the San Francisco Mechanical Code is indicated with an historical notation, setting forth the ordinance number and date of adoption. Additionally, a [table](#) is included below that lists and summarizes all legislation that has affected this Code and the other Building Inspection Commission codes after their initial enactment.

Chapter 1 ADMINISTRATION

Division I CALIFORNIA ADMINISTRATION

*See Division II Administration for San Francisco Mechanical Code administrative provisions.
No San Francisco Mechanical Code Amendments.*

Division II ADMINISTRATION

SECTION 101.0 – TITLE

101.1 Revise this section as follows:

101.1 Title. This document shall be known as the [←] ~~2022~~ 2025 San Francisco Mechanical Code, may be cited as such, and will be referred to herein as “this code.”

SECTION 103.0 – DUTIES AND POWERS OF THE AUTHORITY HAVING JURISDICTION

103.1 Revise the first paragraph as follows:

103.1 General. The Authority Having Jurisdiction shall be the Authority duly appointed to enforce this code. For such purposes, the Authority Having Jurisdiction shall have the powers of a law enforcement officer. The Authority Having Jurisdiction, when necessary, may call upon the Police Department and other city agencies for aid or assistance in carrying out or enforcing any of the provisions of this code. The Authority Having Jurisdiction shall have the power to render interpretations of this code and to adopt and enforce rules and regulations supplemental to this code as deemed necessary in order to clarify the application of the provisions of this code. Such interpretations, rules and regulations shall comply with the intent and purpose of this code.

103.4 Revise the first paragraph as follows:

103.4 Right of Entry. [←] When it is necessary to make an inspection to enforce the provisions of this code or other codes or ordinances, or [←] when the Authority Having Jurisdiction has reasonable cause to believe that there exists in a building or upon a premises a condition or violation of this code or other codes or ordinances that makes the building or premises unsafe, insanitary, dangerous or hazardous, the Authority Having Jurisdiction shall be permitted to enter the building or premises at reasonable times to inspect or to perform the duties imposed upon the Authority having Jurisdiction by this code or other codes or ordinances, provided that where such building or premises is occupied, the Authority Having Jurisdiction shall present credentials to the occupant and request entry. Where such building or premises is unoccupied, the Authority Having Jurisdiction shall first make a reasonable effort to locate the owner or other person having charge or control of the building or premises and request entry. Where entry is refused, the Authority Having Jurisdiction has recourse to every remedy provided by law to secure entry.

103.5 Add the following section:

103.5 Authority Having Jurisdiction May Adopt Rules and Regulations. The Authority Having Jurisdiction shall have the power to render interpretations of this code and to adopt and enforce rules and supplemental regulations to clarify the application of its provisions. Such interpretations, rules and regulations shall be in conformance with the intent and purpose of this

code. Such rules and regulations, commonly referred to as “Code Rulings” and “Administrative Bulletins,” supplemental to this code, shall not take effect until approved by the Building Inspection Commission and signed by the Authority Having Jurisdiction except in unusual circumstances where the Authority Having Jurisdiction has determined there is an immediate need to protect the public health and safety. When the Authority Having Jurisdiction finds that such circumstances exist, the Authority Having Jurisdiction may order immediate enforcement of a particular rule or regulation. The Authority Having Jurisdiction shall arrange for a subscription service to such rules and regulations, the entire cost of which is to be borne by the subscribers.

103.6 Add the following section:

103.6 Code Revisions. The Authority Having Jurisdiction shall transmit to the Building Inspection Commission, at intervals not exceeding three years, recommendations for changes to this code, based on studies of the following:

1. Requests of the Board of Examiners for variances from this code, and for approvals of alternate materials, alternate designs and methods of construction.
2. Code changes recommended by the Board of Examiners.
3. Code changes recommended by the Code Advisory Committee or other bodies subordinate to the Building Inspection Commission.
4. Results obtained and problems encountered from legal actions taken to correct code violations.
5. Changes or improvements in materials, methods of construction or design and changes proposed by interested persons.
6. Investigations of fire and structural damage to buildings, and of complaints of unsatisfactory mechanical system performance.
7. Periodic changes to the California Mechanical Code and other State regulations which may affect this code.
8. Administrative Bulletins and Code Rulings currently in effect.
9. Violations of this code found on inspections or investigations.

SECTION 104.0 – PERMITS

104.2 Add item (6) as follows:

(6) Replacement water heaters of not more than 100 gallons (378.54 liters) capacity are exempt from building permits when a new flue is not installed, but shall require plumbing permits.

104.3 Replace this section as follows:

104.3 Application for Permit. [←] Applications for permits to perform regulated mechanical work shall conform to the applicable requirements as set forth in [Chapter 1A](#) of the Building Code and Chapter 1, Division II of the Plumbing Code.

104.4 Replace this section as follows:

104.4 Permit Issuance. [←] Permit processing and issuance for regulated mechanical work shall conform to the applicable requirements as set forth in [Chapter 1A](#) of the Building Code and Chapter 1, Division II of the Plumbing Code.

104.4.3 Replace this section as follows:

104.4.3 Permit Expiration. [←] Mechanical permits expire per Section [106A.4.4](#) of the San Francisco Building Code. Permit fees may be partially refunded if a written cancellation request is made to the Building Official prior to commencement of the permitted work and within 90 days of the date of permit issuance. See Section [110A](#), Table 1A-R Refunds of the Building Code for refunds.

104.5 Replace this entire section including subsections with the following section:

[←] 104.5 Fees. Fees for regulated mechanical work shall be as set forth in [Chapter 1A](#) of the Building Code and in Chapter 1, Division II of the Plumbing Code.

SECTION 106.0 – VIOLATIONS AND PENALTIES

106.0 Add the following three sections:

106.7 Violations. Any person, the owner or the owner's authorized agent, who violates, disobeys, omits, neglects or refuses to comply with, or resists or opposes the execution of any of the provisions of this code, shall be liable for a civil penalty, not to exceed \$500 for each day such violation is committed or permitted to continue, which penalty shall be assessed and recovered in a civil action brought in the name of the people of the City and County of San Francisco by the City Attorney in any court of competent jurisdiction. Any penalty assessed and recovered in an action brought pursuant to this paragraph shall be paid to the City Treasurer and credited to the Department of Building Inspection's Special Fund.

106.8 Any person, the owner or the owner's authorized agent, who violates, disobeys, omits, neglects or refuses to comply with, or who resists or opposes the execution of any of the provisions of this code, shall be guilty of a misdemeanor, and upon conviction thereof shall be punished by a fine not exceeding \$500 or by imprisonment not exceeding six months, or by both such fine and imprisonment, unless otherwise provided in this code, and shall be deemed guilty of a separate offense for every day such violation, disobedience, omission, neglect or refusal shall continue. Any person who shall do any work in violation of any of the provisions of this code, and any person having charge of such work who shall permit it to be done, shall be liable for the penalty provided.

106.9 It shall be unlawful for any person to interfere with the posting of any notice provided for in this code, or to tear down or mutilate any such notice so posted by the Department of Building Inspection.

SECTION 107.0 – BOARD OF APPEALS

107.0 Replace this title and entire section as follows:

107.0 [←] Board of Examiners. Applicants may appeal decisions made by the Department of Building Inspection to the Board of Examiners regarding approval of alternate materials, methods and types of construction and for variances from the provisions of this code. See Building Code Section [105A.1](#).

Chapter 2 DEFINITIONS

No San Francisco Mechanical Code Amendments.

Chapter 3

GENERAL REGULATIONS

SECTION 302.2 - ALTERNATE MATERIALS AND METHODS OF CONSTRUCTION EQUIVALENCY

302.2.2 Add the following section:

302.2.2 Fees. See Building Code Section [110A](#), Table 1A-J Miscellaneous Fees for applicable fees.

Chapter 4

VENTILATION AIR

No San Francisco Mechanical Code Amendments.

Chapter 5

EXHAUST SYSTEMS

SECTION 504.3 – DOMESTIC ~~RANGE~~ COOKING EXHAUST EQUIPMENT

504.3 Add the following sentence as a second paragraph as follows item number (7) to the list:

(7) Provide exhaust hood above kitchen range, stove or cooktop. Exhaust duct shall terminate to the exterior per California Mechanical Code Section 502.2.1

Chapter 6

DUCT SYSTEMS

No San Francisco Mechanical Code Amendments.

Chapter 7

COMBUSTION AIR

No San Francisco Mechanical Code Amendments.

Chapter 8

CHIMNEYS AND VENTS

SECTION 802.2 – CONNECTION TO VENTING SYSTEMS

802.2.6 *Revise this section as follows:*

802.2.6 Direct-Vent Appliances. Listed direct-vent appliances shall be installed in accordance with the manufacturer's installation instructions and Section 802.8.2. [NFPA 54:12.3.5], provided the installation does not violate existing State or Local ordinance and does not create a nuisance as defined within this code and section 216.0 of the San Francisco Plumbing Code.

SECTION 802.6 – GAS VENTS

802.6.1 *Revise the heading and first sentence of this section as follows:*

802.6.1 Additional Termination Requirements. A gas vent shall terminate at least four (4) feet (1219 mm) from a property line, except a public way and in accordance with one of the following:

SECTION 802.8 – THROUGH-THE-WALL VENT TERMINATIONS

802.8 *Revise the first sentence of this section and add an exception (3) to this section as follows:*

802.8 Through-the-Wall Vent Termination. A mechanical draft venting system shall terminate at least four (4) feet (1219 mm) from a property line, except a public way and not less than 3 feet (914 mm) above any forced air inlet located within 10 feet (3048 mm). (See Figure 802.8)

Exceptions:

- (1) This provision shall not apply to the combustion-air intake of a direct-vent appliance.
- (2) This provision shall not apply to the separation of the integral outdoor-air inlet and flue gas discharge of listed outdoor appliances. [NFPA 54:12.9.1]
- (3) Direct-vent appliances shall comply with sections 802.2.6 and 802.8.2

Chapter 9

INSTALLATION OF SPECIFIC APPLIANCES

SECTION ~~925.0~~ 924.1 – INCINERATORS AND CREMATORIES

925.1 *Add the following sentence as a second paragraph:*

The operation and installation of incinerators shall also comply with the regulations of the Bay Area Air Quality Management District.

SECTION 1013.0 – INSPECTIONS AND TESTS

1013.1 *Revise this section as follows:*

1013.1 General. An installation for which a permit is required shall not be put into service until it has been [←] certified by a licensed boiler contractor or inspected by an approved insuring company inspector and an operating permit has been issued.

It shall be the duty of the owner or his authorized representative to notify the Authority Having Jurisdiction that the installation [←] has been certified or inspected. It also shall be the duty of the owner or his authorized representative to post in a conspicuous position on the installation a notice in substantially the following form: "Warning! This installation has not been inspected

and approved by the Authority Having Jurisdiction and shall not be covered or concealed until so inspected and approved,” and it shall be unlawful for anyone other than the Authority Having Jurisdiction to remove such notice. The Authority Having Jurisdiction shall require such tests as it deems necessary to determine that the installation [←] complies with the provision of this section. Such tests shall be made by the owner or his authorized representative in the presence of the Authority Having Jurisdiction.

Exception: On installations designed and supervised by a registered professional engineer, the Authority Having Jurisdiction shall have the authority to permit inspection and testing by such registered design professional.

1013.2 Revise this section as follows:

1013.2 Operating Permit.

It shall be unlawful to operate a boiler or pressure vessel without first obtaining a valid operating permit to do so from the Authority Having Jurisdiction. Such permit shall be displayed in a conspicuous place adjacent to the boiler or pressure vessel. The operating permit shall not be issued until the equipment has been [←] certified as complying with State of California Building Safety Orders by a licensed boiler contractor, by employees of an approved insuring company holding commissions from the National Board of Boiler and Pressure Vessel Inspectors or by a registered professional engineer.

Exception: The operation of steam-heating boilers, low-pressure hot-water-heating boilers, hot water supply boilers, and pressure vessels in residential occupancies of less than six dwelling units and utility occupancies.

1013.3 Revise this section as follows:

1013.3 Maintenance Inspection. The Authority Having Jurisdiction shall [←] require an inspection of boilers and pressure vessels operated under permit in accordance with ASHRAE/ACCA 180 at such intervals as deemed necessary, but not less frequently than in accordance with Section 1013.4 through Section 1013.7.

1013.7 Revise the second paragraph as follows:

Inspection of boilers and pressure vessels may be made by licensed C-4 Boiler Contractors and, when covered by insurance shall be permitted to be made by employees of the insuring company holding commissions from the National Board of Boiler and Pressure Vessel Inspectors, subject to approval of the Authority Having Jurisdiction. Approved insuring company inspectors shall make reports on prescribed forms on inspections authorized by the Authority Having Jurisdiction. The reports shall be filed in the Authority Having Jurisdiction office. Company inspectors shall notify the Authority Having Jurisdiction of suspension of insurance because of dangerous conditions, new insurance in effect, and discontinuance of insurance coverage, or any unsafe conditions requiring correction.

Chapter 11

REFRIGERATION

No San Francisco Mechanical Code Amendments.

Chapter 12

HYDRONICS

No San Francisco Mechanical Code Amendments.

Chapter 13

FUEL GAS PIPING

No San Francisco Mechanical Code Amendments.

Chapter 14

PROCESS PIPING

No San Francisco Mechanical Code Amendments.

Chapter 15

SOLAR ENERGY SYSTEMS

No San Francisco Mechanical Code Amendments.

Chapter 16

STATIONARY POWER PLANTS

No San Francisco Mechanical Code Amendments.

Chapter 17

REFERENCED STANDARDS

No San Francisco Mechanical Code Amendments.

Appendix B

PROCEDURES TO BE FOLLOWED TO PLACE GAS EQUIPMENT IN OPERATION

No San Francisco Mechanical Code Amendments.

Appendix C

INSTALLATION AND TESTING OF OIL (LIQUID) FUEL-FIRED EQUIPMENT

No San Francisco Mechanical Code Amendments.

Note: Appendices A, D, E, F and G not adopted by CMC.