

NOTE: Numerals indicated in parenthesis are applicable code sections of the 2009 International Mechanical Code (IMC), unless otherwise noted. 2009 International Fuel Gas Code (IFGC) section numbers are shown in italics, preceded by "IFGC" and 2009 International Building Code (IBC) section numbers are shown in italics preceded by "IBC." Where the section number is applicable to both the IMC and IFGC, the section number is followed by an asterisk "**."

GENERAL REGULATIONS

<p>_____ Construction documents to be submitted (106.3*, 106.3.1*)</p> <p>_____ Energy utilization (301.2*)</p> <p>_____ Equipment approval (301.3*, 301.4*, 301.5*; 301.6)</p> <p>_____ Prohibited locations (303.1*, 303.2*, 303.3*; 303.8; <i>IFGC 301.15</i>)</p> <p>_____ Equipment installation (301.10*- 301.14*, 303.4*, 303.5*, 303.7*, 306*; 301.15, 304.1, 304.8, 304.9; <i>IFGC 301.8, 301.9, 305.1, 305.6, 305.8</i>)</p>	<p>_____ Hazardous location installation (304.3, 304.4, 304.5, 304.6, 304.7; <i>IFGC 305.2, 305.3, 305.4, 305.5, 305.9, 305.10, 305.11</i>)</p> <p>_____ Outdoor installation (303.6*, 304.10, 304.11; <i>IFGC 305.7, IFGC 306.6</i>)</p> <p>_____ Piping support (305; <i>IFGC 305.12, 407.2, 415.1</i>)</p> <p>_____ Condensate disposal (307*; <i>IFGC 503.9</i>)</p> <p>_____ Clearance reduction (308*)</p>
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GENERAL

- _____ Exits (601.3; IBC 1022.5)
- _____ Outside air exhaust and intake location
(*401.4, 501.2, 501.2.1, 918.6;*
IFGC 618.5)
- _____ Outside opening protection (401.5)

NATURAL VENTILATION

- _____ Ventilation Requirements (402)
- _____ Contaminants Exhausted (401.6;
IBC 1203.4.2)

MECHANICAL VENTILATION

- _____ Ventilation air requirements (401.2, 401.3
403.1, 403.2, 403.3, Table 403.3)
- _____ Recirculation and transfer air (403.2.1,
403.2.2)
- _____ System operation (403.5, 403.6)
- _____ System control (405.1)
- _____ Energy recovery ventilation systems (514)
- _____ Public garages (404, 502.13)
- _____ Uninhabited spaces (406.1; *IBC 1203.2,
1203.3*)

MECHANICAL VENTILATION

- _____ Ventilation calculations submitted
(106.3.1, 403.2, 403.3)
- _____ Zone outdoor airflow, equations 4-1 and 4-2
(403.3.1, 403.3.1.1, 403.3.1.2, 403.3.2.1
Table 403.3)
- _____ Single zone systems, equation 4-3 (403.3.2,
403.3.2.1)
- _____ 100-percent outdoor air systems, equation 4-4
(403.3.2, 403.3.2.2)
- _____ Multiple zone recirculating system, equations
4-5 through 4-8 (403.3.2, 403.3.2.3,
403.3.2.3.1, 403.3.2.3.2, 403.3.2.3.3,
403.3.2.3.4)

NOTES

EXHAUST SYSTEMS

REQUIRED SYSTEMS

- _____ Ventilation/exhaust hood venting (IFGC 503.3.4, 505.1)
- _____ General (502.1, 502.2, 502.6, 502.11, 502.12, 502.15, 502.16, 502.17, 502.18, 502.19)
- _____ Battery-charging areas (502.3, 502.4, 502.5)
- _____ Application of flammable finishes (502.7)
- _____ Hazardous materials (502.8, 502.9, 502.10)
- _____ Motor vehicle operation (502.14)
- _____ Motors and fans (503)
- _____ Clothes dryer exhaust (504; *IFGC 614*)
- _____ Domestic kitchen exhaust equipment (505)
- _____ Hazardous exhaust systems (510)
- _____ Dust, stock and refuse conveyor systems (511)
- _____ Subslab soil exhaust systems (512)
- _____ Smoke control systems (513)

COMMERCIAL KITCHEN DUCTS AND EXHAUST EQUIPMENT

- _____ Exhaust fans (506.5.1)
- _____ Duct materials (506.3.1)
- _____ Duct design and velocity (506.3, 506.3.4, 506.3.5)
- _____ Duct construction (506.2, 506.3.2, 506.3.3, 506.3.7)
- _____ Cleanouts (506.3.8, 506.3.9, 506.3.11)
- _____ Duct enclosure (506.3.10, 507.10)
- _____ Clearance to combustibles (506.3.6, 506.5.4)
- _____ Exhaust outlets (506.3.12, 506.5.2, 506.5.3, 506.5.5)

COMMERCIAL KITCHEN TYPE I HOODS

- _____ Where required (507.1, 507.2)
- _____ Factory-built commercial kitchen hoods (507.1, 507.16)
- _____ Hood construction (507.4, 507.6, 507.7.1, 507.8, 507.15)
- _____ Clearance to combustibles (507.9)
- _____ Grease filters (507.11)
- _____ Canopy-type hoods (507.12, 507.13)
- _____ Noncanopy-type hoods (507.13, 507.14)
- _____ Makeup air (508)
- _____ Exhaust fan activation (507.2.1.1)

COMMERCIAL KITCHEN TYPE II HOODS AND DUCTS

- _____ Where required (507.1, 507.2)
- _____ Duct construction (506.4)
- _____ Hood construction (507.5, 507.6, 507.7.2)
- _____ Design (507.13.4, 507.13.5)

FIRE SUPPRESSION SYSTEMS

- _____ Where required (509.1)
- _____ Type of system (*IBC 904.5, 904.6, 904.8, 904.11; International Fire Code 904.5, 904.6, 904.8, 904.11*)
- _____ Actuation and interconnection (*IBC 904.11.1, 904.11.2; International Fire Code 904.11.1, 904.11.2*)

DUCT SYSTEMS

- _____ Plenums, general (602.1, 602.2, 602.3)
- _____ Air movement in corridors (601.2, 601.2.1)
- _____ Duct construction and insulation (603.1- 603.5, 604)
- _____ Flexible air ducts and air connectors (603.6)
- _____ Duct installation (601.4, 603.7 - 603.17)
- _____ Air filters (605)
- _____ Duct smoke detectors (606)
- _____ Fire, smoke and ceiling radiation dampers (302.2*; 504.2, 607)

COMBUSTION AIR

ALL APPLIANCES EXCEPT GAS-FIRED

- _____ Solid fuel burning appliances (701.1)
- _____ Fireplaces, fireplace stoves and direct-vent appliance (701.1)
- _____ Oil fired appliances (701.1)

OIL FIRED APPLIANCES

Note: Sections in parenthesis for oil fired appliances are applicable sections of NFPA 31-2006.

INSIDE AIR

- _____ Appliances located unconfined spaces (5.2.4, 5.3, 5.3.1)
- _____ Appliances located confined spaces (5.2.4, 5.4, 5.4.1)

OUTDOOR AIR

- _____ Appliances located un unconfined spaces (5.2.4, 5.3, 5.3.2)
- _____ Appliances located in confined spaces (5.2.4, 5.4, 5.4.2, 5.5)

COMBINED USE OF INDOOR AND OUTDOOR AIR

- _____ Appliances located in confined spaces (5.2.4, 5.4.3, 5.4.3.1, 5.4.3.2)

OTHER

- _____ Basic requirements (5.2.1, 5.2.3, 5.2.3.1, 5.2.3.2)
- _____ Prohibited sources (5.2.2, 5.7)
- _____ Louvers and grilles (5.6)
- _____ Engineered systems (5.8)

GAS FIRED APPLIANCES

- _____ Prohibited sources (*IFGC 304.2, 304.4, 304.12*)

INDOOR AIR

- _____ Indoor combustion air (*IFGC 304.5, 304.5.1, 304.5.2*)
- _____ Spaces on the same story (number, location and size) (*IFGC 305.3.1*)
- _____ Spaces in different stories (number, location and size) (*IFGC 304.5.3.2*)

OUTDOOR AIR

- _____ Two-permanent openings method (size and location) (*IFGC 304.6, 304.6.1*)
- _____ One-permanent openings method (size and location) (*IFGC 304.6, 304.6.2*)

COMBINED USE OF INDOOR AND OUTDOOR AIR

- _____ Indoor openings (*IFGC 304.5.3, 304.7.1*)
- _____ Outdoor openings (size and location) (*IFGC 304.6, 304.7.2, 304.7.3*)

OTHER

- _____ Engineered combustion air supply (*IFGC 304.8*)
- _____ Direct-vent (*IFGC 304.1*)
- _____ Mechanical combustion air supply (*IFGC 304.9*)
- _____ Louvers and grilles (*IFGC 304.10*)
- _____ Combustion air ducts (*IFGC 304.11*)

CHIMNEYS AND VENTS

- _____ Masonry chimneys (801.3, 801.12, 801.13, 801.15, 801.16, 801.17, 801.18; *IFGC 501.3, 501.4, 501.9, 501.11, 501.12, 501.13, 501.15, 503.5.3, 503.5.4, 503.5.5, 504.2, 504.3*)
- _____ Metal chimneys (806; *IFGC 503.5.2*)
- _____ Category II, III, IV gas appliance venting systems (*IFGC 501.14, 502.1, 503.4, 503.6.9.3, 503.11*)

VENTS (GAS-FIRED APPLIANCES)

- _____ Where required (*IFGC 503.2, 503.3*)
- _____ Approval (*IFGC 502.1*)
- _____ Vent application (*IFGC 502.3, 503.4*)
- _____ Installation (*IFGC 502.4, 502.5, 502.6, 502.7, 503.6.1*)
- _____ Gas vent termination (*IFGC 503.6.4, 503.6.6, 503.6.8, 503.8*)

CHIMNEYS AND VENTS (cont'd.)

VENTS (GAS-FIRED APPLIANCES) (cont'd.)

- _____ Minimum vent heights (*IFGC 503.6.5*)
- _____ Gas vents installed within masonry chimneys (*IFGC 503.6.3, 504.3.19*)
- _____ Single-wall vent (*IFGC 503.7*)

SIZING OF CATEGORY I GAS APPLIANCE VENTING SYSTEMS

- _____ Sizing of venting system for a single gas appliance (*IFGC 503.6.9, 504.2*)
- _____ Chimney and vent location (*IFGC 504.2.9*)
- _____ Sizing of venting system for two or more gas appliances (*IFGC 503.6.9, 504.3*)
- _____ Multistory gas vents (*IFGC 503.6.10*)

CONNECTORS (GAS-FIRED APPLIANCES)

- _____ Materials (*IFGC 503.10.2*)
- _____ Size/location (*IFGC 503.10.3.1, 503.10.3.2, 504.2.10, 504.2.11*)
- _____ Connectors serving two or more appliances (*IFGC 503.10.3.3, 503.10.3.4, 503.10.4, 504.3.2, 504.3.3, 504.3.4, 504.3.21*)
- _____ Installation (*IFGC 503.10.9, 503.10.10, 503.10.11, 503.10.14, 503.10.15, 503.13, 503.14, 503.15*)

VENTS (ALL APPLIANCES EXCEPT GAS-FIRED APPLIANCES)

- _____ Approval (802.1)
- _____ Vent application (802.2)

_____ Sizing and installation (802.3, 802.7, 802.8)

_____ Vent terminations (802.4, 802.5)

_____ Minimum vent heights (802.6)

_____ Multistory vents (801.19)

_____ Plastic vents (801.20)

CONNECTORS (ALL APPLIANCES EXCEPT GAS-FIRED APPLIANCES)

_____ Size/location (803.2, 803.3)

_____ Connectors serving two or more appliances (803.7)

_____ Construction (803.8, 803.9)

_____ Installation (803.5, 803.6, 803.10)

DIRECT VENT, INTEGRAL VENT, MECHANICAL VENT AND VENTILATION/EXHAUST HOOD VENTING

_____ Direct vent (804.1; *IFGC 503.2.3, 503.8(3), 505.1*)

_____ Appliances with integral vents (804.2; *IFGC 503.2.4, 505.1*)

_____ Mechanical draft systems (804.3; *IFGC 503.3.3*)

FACTORY-BUILT CHIMNEYS

_____ Approval and installation (805; *IFGC 503.5.1, 506.1*)

_____ Solid fuel appliances (805.2)

_____ Factory-built fireplaces (805.3)

SPECIFIC APPLIANCES, FIREPLACES AND SOLID FUEL-BURNING EQUIPMENT

_____ Factory-built fireplaces (903)

_____ Pellet fuel-burning appliances (904)

_____ Fireplace stoves and room heaters (905)

_____ Factory-built barbecue appliances (906)

_____ Decorative gas-fired appliances for installation in vented fireplaces (*IFGC 602, 634*)

_____ Gas-fired log lighters (*IFGC 603*)

_____ Vented gas-fired decorative appliances (*IFGC 604*)

_____ Vented gas fireplace heaters (*IFGC 605*)

_____ Incinerators and crematories (907; *IFGC 606*)

_____ Cooling towers, evaporative condensers and fluid coolers (908)

_____ Commercial-industrial incinerators (*IFGC 607*)

_____ Vented wall furnaces (909; *IFGC 608*)

_____ Floor furnaces (910; *IFGC 609*)

_____ Duct furnaces (911; *IFGC 610*)

_____ Nonrecirculation direct-fired industrial air heaters (*IFGC 611*)

SPECIFIC APPLIANCES, FIREPLACES AND SOLID FUEL-BURNING EQUIPMENT (cont'd.)

_____ Recirculating direct-fired industrial air heaters (IFGC 612)	_____ Unvented room heaters (IFGC 621)
_____ Infrared radiant heaters (912; IFGC 630)	_____ Vented room heaters (921; IFGC 622)
_____ Clothes dryers (913; IFGC 613)	_____ Kerosene and oil-fired stoves (922)
_____ Illuminating appliances (IFGC 628)	_____ Small ceramic kilns (923; IFGC 629)
_____ Sauna heaters (914; IFGC 615)	_____ Stationary fuel cell power plants (924)
_____ Engine and gas turbine-powered equipment and appliances (915; IFGC 616)	_____ Masonry heaters (925)
_____ Pool and spa heaters (916; IFGC 617)	_____ Heat recovery ventilators (927)
_____ Cooking appliances (917; IFGC 623)	_____ Refrigerators (IFGC 625)
_____ Forced-air warm-air furnaces (918; IFGC 618)	_____ Gas-fired toilets (IFGC 626)
_____ Conversion burners (919; IFGC 619)	_____ Air conditioning equipment (IFGC 627)
_____ Unit heaters (920; IFGC 620)	_____ Stationary fuel-cell power systems (924; IFGC 633)
	_____ Gaseous hydrogen systems (926; IFGC 635)

BOILERS, WATER HEATERS AND PRESSURE VESSELS

_____ Water heaters (1002; IFGC 624)	_____ Safety and pressure relief valves and controls (1006)
_____ Pressure vessels (1003)	_____ Low-water cutoff (1007)
BOILERS	_____ Steam blowoff valve (1008)
_____ Approval (1004.1, 1004.2; IFGC 631)	_____ Hot water expansion tank (1009)
_____ Working clearance (1004.3)	_____ Gauges (1010)
_____ Boiler connections (1005)	

REFRIGERATION

_____ Factory-built equipment (1101.2)	_____ Machinery room, general requirements (1104.2, 1105)
_____ Refrigerant system classification (1103.3)	_____ Machinery room, special requirements (1104.2, 1106)
_____ Refrigerant classification (1103.1)	_____ Refrigerant piping and installation (1104.2, 1107)
_____ Occupancy classification (1103.2)	
_____ Quantity and application of refrigerant (Table 1103.1, Table 1104.3.2, 1104.2, 1104.3, 1104.4)	

HYDRONIC PIPING

_____ Materials (1202)	_____ Piping installation (1206)
_____ Joints and connections (1203)	_____ Transfer fluid (1207)
_____ Pipe insulation (1204)	_____ Embedded piping (1209)
_____ Valves (1205)	

FUEL-GAS PIPING

MATERIAL

_____ Piping materials (*IFGC 403.1 - 403.6*)

_____ Joints and connections (*IFGC 403.9 - 403.13*)

_____ Identification (*IFGC 401.5*)

INSTALLATION

_____ Piping location (*IFGC 404.1, 404.2, 404.3*)

_____ Piping protection (*IFGC 404.5, 404.6, 404.7*)

_____ Piping through foundation walls (*IFGC 404.4*)

_____ Underground piping (*IFGC 404.9, 404.10, 404.12*)

_____ Protection against corrosion (*IFGC 403.8, 404.8*)

_____ Plastic pipe (*IFGC 404.15*)

_____ Piping bends and changes direction (*IFGC 405*)

_____ Appliance connection (*IFGC 411*)

_____ Drips and sloped piping (*IFGC 408*)

SIZING

_____ Gas pipe sizing (*IFGC 402*)

GAS SHUTOFF VALVES

_____ Approval (*IFGC 409.1.1*)

_____ Appliance shutoff (*IFGC 409.5*)

_____ Tenant shutoff (*IFGC 409.3*)

_____ Prohibited locations (*IFGC 409.1.2*)

_____ Meter valve (*IFGC 409.2*)

_____ Regulators (*IFGC 410*)

OTHER GAS PIPING SYSTEMS

_____ Liquefied petroleum gas motor vehicle fuel-dispensing stations (*IFGC 412*)

_____ Compressed natural gas motor vehicle fuel dispensing stations (*IFGC 413*)

_____ Supplemental and standby gas supply (*IFGC 414*)

_____ Overpressure protection (*IFGC 416*)

FUEL OIL PIPING AND STORAGE

_____ Storage system (1301.2)

_____ Materials (1302)

_____ Joints and connections (1303)

_____ Fuel oil system installation (1305)

_____ Oil gauging (1306)

_____ Fuel oil valves (1307)

SOLAR SYSTEMS

_____ Solar systems (Chapter 14)

GASEOUS HYDROGEN SYSTEMS

_____ Gaseous hydrogen systems (926.1; *IFGC 635, Chapter 7*)

APPENDICES A*, B*, IFGC C AND D.

_____ Appendices adopted (101.2.1; *IFGC 101.3*)

_____ Compliance verified

NOTES