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	CHAPTER 1 SCOPE AND ADMINISTRATION	CHAPTER 1 SCOPE AND ADMINISTRATION
		102.2.1 Existing buildings. New section.
	105.2 Alternative materials, methods,	
	equipment and appliances. Add- Where the	
	alternative material, design or method of	
	construction is not approved, the building	
	official shall respond in writing, stating the	
	reasons the alternative was not approved.	
	106.1.1 Annual permit. New section.	
	106.1.2 Annual permit records. New section.	
	CHAPTER 2 DEFIINITIONS	
	202 AIR, OUTDOOR. New definition.	
	202 AIR, TRANSFER, New definition.	
		202 COMMERCIAL COOKING APPLIANCES.
		Revised.
	202 CONDITIONED SPACE. Revised.	
	202 DESIGN FLOOD ELEVATION. Revised.	
		202 DIRECT SOLAR SYSTEM. New definition.
		202 DRAIN-BACK SYSTEM. New definition.
	202 DISCRETE PRODUCT. New definition.	
	202 DUCTLESS MINI-SPLIT SYSTEM. New	
	definition.	
	202 EXFILTRATION. New definition.	
	202 FLEXIBLE CONNECTOR. New definition.	
		202 FOOD-GRADE FLUID. New definition.
	202 HEAVY-DUTY COOKING APPLIANCE.	
	Revised.	
		202 INDIRECT SOLAR SYSTEM. New definition.
	202 INFILTRATION. New definition.	
		202 LOW-PROBABLITY PUMP. New definition.

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		202 NO-FLOW CONDITION (SOLAR). New
		definition.
		202 NONFOOD GRADE FLUID. New definition.
	202 OCCUPATIONAL EXPOSURE LIMIT (OEL).	202 OCCUPATIONAL EXPOSURE LIMIT (OEL).
	New definition.	Revised.
		202 POLLUTION-CONTROL UNIT (PCU). New
		definition.
		202 SOLAR THERMAL SYSTEM. New definition.
	CHAPTER 3 GENERAL REGULATIONS	CHAPTER 3 GENERAL REGULATIONS
	303.3 Prohibited locations.	
	Exceptions:	
	Revise 2. Sild fuel-fired appliances, provided	
	that combustion air is provided in accordance	
	with the manufacturer's instructions. The	
	room is not a confined space and the building	
	is not of unusually tight construction.	
		303.7 Pit locations. Appliances installed in pits or
		excavations shall not come in direct contact with
		the surrounding soil and shall be installed not less
		than 3 inches (76 mm) above the pit floor. The
		sides of the pit or excavation shall be held back not
		less than 12 inches (305 mm) from the appliance.
		Where the depth exceeds 12 inches 9305 mm)
		below adjoining grade, the walls of the pit or
		excavation shall be lined with concrete or
		masonry. Such concrete or masonry shall extend
		not led than 4 inches (102 mm) above adjoining
		grade and shall have sufficient lateral load-bearing
		capacity to resist collapse. Excavation on the
		control side of the appliance shall extend not less
		than 30 inches (762 mm) horizontally. The

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		appliance shall be protected from flooding in an
		approved manner.
		303.9 Fireplaces in Group I-2 Condition 2
		occupancies. New section.
	304.11 Guards.	
	Exception: Guards are not required where	
	permanent fall arrest/restraint anchorage	
	connector devices that comply with	
	ANSI/ASSE Z 359.1 are affixed for use during	
	he entire lifetime of the roof covering. The	
	devices shall be re-evaluated for possible	
	replacement when the entire roof covering is	
	replaced. The devices shall be placed not	
	more than 10 feet (3048 mm) on center along	
	hip and ridge lines and placed not less than 10	
	feet (3048 mm) from roof edges and the open	
	sides of walking spaces.	
	Interval of support. Piping supports at	
	distances not exceeding the spacing specified	
	in Table 305.4, or in accordance with	
	ANSI/MSS SP-58 MSS SP-69.	
	TABLE 305.4 PIPING SUPPORT SPACING.	
	Revised.	
	307.2 Evaporators and cooling coils.	
	Exception: Evaporators and cooling coils that	
	are designed to operate in sensible cooling	
	only and not support condensation shall not	
	be required to meet the requirements of this	
	section.	
	307.2.4.1 Ductless mini-split system traps.	
	New section.	
	307.2.5 Drain line maintenance. New section.	
	307.3 Condensate pumps. New section.	

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	CHAPTER 4 VENTILATION	CHAPTER 4 VENTILATION
401.2 Ventilation required. Every occupied	401.2 Ventilation required. Every occupied	
space shall be ventilated by natural means	space shall be ventilated by natural means in	
in accordance with Section 402 or by	accordance with Section 402 or by mechanical	
mechanical means in accordance with	means in accordance with Section 403. Where	
Section 403. Where the air infiltration rate	the air infiltration rate in a dwelling unit is	
in a dwelling unit is less than 5 air changes per hour when tested with a blower door at	less than 5 air changes per hour when tested	
a pressure of 0.2-inch water column (50 Pa)	with a blower door at a pressure of 0.2-inch	
in accordance with Section 402.1.2 of the	water column (50 Pa) in accordance with	
International Energy Conservation Code,	Section 402.4.1.2 of the International Energy	
the dwelling unit shall be ventilated by	Conservation Code, the dwelling unit shall be	
mechanical means in accordance with	ventilated by mechanical means in	
Section 403.	accordance with Section 403. Ambulatory	
	care facilities and Group I-2 occupancies shall	
	be ventilated by mechanical means in	
	accordance with Section 407.	
	403.1 Ventilation system. Mechanical	
	ventilation shall be provided by a method of	
	supply air and return or exhaust air except	
	that mechanical ventilation requirements in	
	Group R-2, R-3 and R-4 occupancies three	
	stories and less in height above the grade	
	plane shall be provided by an exhaust system,	
	supply system or combination thereof. The	
	amount of supply air shall be approximately	
	equal to the amount of return or exhaust air.	
	The system shall not be prohibited from	
	producing a negative or positive pressure. The	
	system to convey ventilation air shall be	
	designed and installed in accordance with	
	Chapter 6.	
	403.2.1 Recirculation of air.	

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	Revise- 3. Where mechanical exhaust is	
	required by Note B in Table 403.3.1.1.	
	recirculation of air from such spaces shall be	
	prohibited. Recirculation of air that is	
	contained completely within such spaces shall	
	not be prohibited. Where recirculation of air	
	is prohibited, all air supplied to such spaces	
	shall be exhausted, including any air in excess	
	of that required by Table 403.3.1.1. All air	
	supplied to such spaces shall be exhausted,	
	including any air in excess of that required by	
	Table 403.3.	
	Revise- 4. Where mechanical exhaust is	
	required by Note G in Table 403.3,	
	mechanical exhaust is required and	
	recirculation from such spaces is prohibited	
	where more than 10 percent of the resulting	
	supply airstream consists of air recirculated	
	from these spaces. Recirculation of air that is	
	contained completely within such spaces shall	
	not be prohibited.	
	403.3 Outdoor air and local exhaust rates.	
	Revised.	
	403.3.1 Other buildings intended to be	
	occupied. New section.	
	403.3.3.2 Groups R-2, R-3 and R-4	
	occupancies, three stories or less. New	
	section and subsections.	
	TABLE 403.3.2.3 MINIMUM REQUIRED LOCAL	
	EXHAUST RATES FOR GROUP R-2, R-3, AND	
	R-4 OCCUPANCIES. New table.	
	404.1 Enclosed parking garages. Revised.	404.1 Enclosed parking garages. Revised.

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	SECTION 407 AMBULATORY CARE FACILITIES	
	AND GROUP I-2 OCCUPANCIES. New section.	
	CHAPTER 5 EXHAUST SYSTEMS	CHAPTER 5 EXHAUST SYSTEMS
	501.3 Exhaust discharge.	
	Exceptions:	
	Add- 3. Where installed in accordance with	
	the manufacturer's instructions and where	
	mechanical or natural ventilation is otherwise	
	provided in accordance with Chapter 4, listed	
	and labeled domestic ductless range hoods	
	shall not be required to discharge to the	
	outdoors.	
505.2 Makeup air required. Exhaust hood		
systems capable of exhausting in excess of		
400 600 cfm (0.19-0.28 m³/s) shall be		
provided with makeup air at a rate		
approximately equal to the exhaust air rate. Such makeup air systems shall be equipped		
with a means of closure and shall be		
automatically controlled to start and		
operate simultaneously with the exhaust		
system.		
		502.4 Stationary storage battery systems.
		Stationary storage battery systems, as regulated by
		Section 608 of the International Fire Code, shall be
		provided with ventilation in accordance with this
		chapter and Section 502.4.1 or 502.4.2.
		The exhaust system shall be designed to provide
		air movement across all parts of the floor for gases
		having a vapor density greater than air and across
		all parts of the vault ceiling for gases having a
		vapor density less than air.

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		Exception: Lithium-ion and lithium metal polymer
		batteries shall not require additional ventilation
		beyond that which would normally be required for
		human occupancy of the space.
		502.4.1 Flammability limit in rooms. New section.
		502.4.2 Ventilation rate in rooms. Continuous
		ventilation shall be provided at a rate of not less
		than 1 cubic foot per minute per square foot
		(cfm/ft^2) [0.00508 m ³ /(s * m ²)] of floor area of the
		room and not less than 150 cfm (4.25 m³/min).
		502.5 Ventilation of battery systems in cabinets.
		Stationary storage battery systems installed in
		cabinets, as regulated by Section 1206.2.11.3.1 of
		the International Fire Code, shall be provided with
		ventilation in accordance with Section 502.4.
		Continuous cabinet ventilation shall be provided at
		a rate of not less than 1 cubic foot per minute per
		square foot (cfm/ft ²) [0.00508m ³ /(s * m ³)] of the
		floor area covered by the cabinet. The room in
		which the cabinet is installed shall be ventilated as
		required by Section 502.4.1 or 504.2.2.
	502.14 Motor vehicle operation.	
	Add- Such system shall be engineered by a	
	registered design professional or shall be	
	factory-built equipment designed and rated	
	for the purpose.	
		502.16 Repair garages for vehicles fueled by
		lighter-than-air fuels. Revised.
	502.20 Manicure and pedicure stations. New	
	section.	
		504.4.1 Exhaust termination outlet and
		passageway size. New section.

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	504.5 dryer exhaust duct power ventilators.	
	New section.	
	504.6 Duct installation. Exhaust ducts shall be	
	supported at 4-foot (1219 mm) intervals and	
	secured in place. The insert end of the duct	
	shall extend into the adjoining duct or fitting	
	in the direction of airflow. Ducts shall not be	
	joined with screws or similar fasteners that	
	protrude more than 1/8 inch (3.2 mm) into	
	the inside of the duct.	
		504.8.2 Duct installation.
		Add- Where dryer exhaust ducts are enclosed in
		wall or ceiling cavities, such cavities shall allow the
		installation of the duct without deformation.
	504.8.4.3 Dryer exhaust duct power	
	ventilator length. New section.	
	505.1 Domestic systems.	505.1 General. New section.
	Exceptions:	
	Revise- 1. In other than Group I-1 and I-2,	
	where Where installed in accordance with the	
	manufacturer's installation instructions and	
	where mechanical or natural ventilation is	
	otherwise provided in accordance with	
	Chapter 4, listed and labeled ductless range	
	hoods shall not be required to discharge to	
	the outdoors.	
		505.2 Domestic cooking exhaust. New section.
	505.3 Common exhaust systems for	505.3 Exhaust ducts Common exhaust systems for
	domestic kitchens located in multistory	domestic kitchens located in multistory
	structures. New section.	structures. New section.
	505.4 Other than Group R. New section.	
	506.3.8 Grease duct cleanouts and openings.	

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	Revise- 2. Sections of grease ducts that are	
	inaccessible from the hood or discharge	
	openings shall be provided with a cleanout	
	opening spaced not more than 20 feet (6096	
	mm) apart and not more than 10 feet (3048	
	mm) from changes in direction greater than	
	45 degrees (0.79 rad). Cleanout openings.	
	506.3.11 Grease duct enclosures. A	
	commercial kitchen grease duct serving a	
	Type I hood that penetrates a ceiling, wall,	
	floor or any concealed spaces shall be	
	enclosed from the point of penetration to the	
	outlet terminal. In-line exhaust fans not	
	located outdoors shall be enclosed as	
	required for grease ducts. A duct shall	
	penetrate exterior walls only at locations	
	where unprotected openings are permitted	
	by the International Building Code. The duct	
	enclosure shall serve a single grease duct and	
	not contain other ducts, piping or wiring	
	systems. <u>Duct enclosures shall be a shaft</u>	
	enclosure in accordance with Section	
	506.3.1.1, a field-applied enclosure assembly	
	in accordance with Section 506.3.11.2 or a	
	factory-built enclosure assembly in	
	accordance with Section 506.3.11.3. Duct	
	enclosures shall have a fire-resistance rating	
	of not less than that of the assembly	
	penetrated and not less than 1 hour. Fire	
	dampers and smoke dampers shall not be	
	installed in grease ducts. Duct enclosures shall	
	be as prescribed by Section 506.3.10.1,	
	506.3.10.2 or 506.3.10.3.	

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	Exception: A duct enclosure shall not be	
	required for a grease duct that penetrates	
	only a nonfire-resistance-rated roof/ceiling	
	assembly.	
	506.5.1.2 In-line fan location. New section.	
		506.5.2 Pollution-control units. New section.
	507.1 General. Commercial kitchen exhaust	
	hoods shall comply with the requirements of	
	this section. Hoods shall be Type I or II and	
	Shall be designed to capture and confine	
	cooking vapors and residues. A Type I or II	
	hood shall be installed at or above all	
	commercial cooking appliances in accordance	
	with Sections 507.2 and 507.3. Where any	
	cooking appliance under a single hood	
	requires a Type I hood, a Type I hood shall be	
	installed. Where a Type II hood is required, a	
	Type I or II hood shall be installed. Where a	
	Type I hood is installed, the installation of the	
	entire system, including hood, ducts, exhaust	
	equipment and makeup air system shall	
	comply with the requirements of Section 506,	
	507, 508 and 509. Commercial kitchen	
	exhaust systems shall operate during the	
	cooking operation.	
	Exceptions:	
	Add- 3. Where cooking appliances are	
	equipped with integral down-draft exhaust	
	systems and such appliances and exhaust	
	systems are listed and labeled for the	
	application in accordance with NFPA 96, a	
	hood shall not be required at or above them.	
	507.1.1 Operation. Revised.	

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	507.1.1.1 Multiple hoods utilizing a single	
	exhaust system. New section.	
	507.1.2 507.2.3 Domestic cooking appliances	
	used for commercial purposes. Domestic	
	cooking appliances utilized for commercial	
	purposes shall be provided with Type I or	
	Type II hoods as required for the type of	
	appliances and processes in accordance with	
	Sections 507.2 and 507.3 507.2.1 and 507.2.2 .	
	Domestic cooking appliances utilized for	
	domestic purposes shall comply with Section	
	<u>505.</u>	
	507.1.4 Cleaning. New section.	
	507.2.4 Type I supports. New section.	
		507.2.6 Clearances for Type I hood.
		Exception:
		1. Clearance shall not be required from
		gypsum wallboard or ¼ inch (12.7 mm) or
		thicker cementitious wallboard attached to
		noncombustible structures provided that a
		smooth, cleanable, nonabsorbent and
		noncombustible material is installed
		between the hood and the gypsum or
		cementitious wallboard over an area
		extending not less than 18 inches (457 mm)
		in all directions from the hood.
		2. Type I hoods listed and labeled for
		clearances less than 18 inches in
		accordance with UL 710 shall be installed
		with the clearances specified by such
	F07.2.0.0	listing.
	507.2.9 Grease gutters for Type I hood. New	
	section.	

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	507.4 Hood size. New section.	
508.1 Makeup air. Makeup air shall be		
supplied during the operation of		
commercial kitchen exhaust systems that		
are provided for commercial cooking		
appliances. The amount of makeup air		
supplied to the building from all sources		
shall be approximately equal to the amount		
of exhaust air for all exhaust systems for the		
building. the makeup air shall not reduce		
the effectiveness of the exhaust system.		
Makeup air shall be provided by gravity or		
mechanical means or both. Mechanical		
makeup air systems shall be automatically		
controlled to start and operate		
simultaneously with the exhaust system.		
Makeup air intake opening locations shall		
comply with Section 401.4.		
508.1.1 Makeup air temperature. The		
temperature differential between makeup		
air and the air in the conditioned space shall		
not exceed 10° F (6°C) except where the		
added heating and cooling loads of the		
makeup air do not exceed the capacity of		
the HVAC system.		
508.1.2 Evaporative cooling systems used	508.1.2 Air balance. New section.	
as makeup air. Evaporative coolers shall not		
be used for makeup air units on commercial		
kitchen hoods and kitchen ventilation		
systems.		
Exception: Evaporative cooling systems that		
are a listed assembly with tempered air for		
kitchen makeup air systems.		
		509.1 Where required. Cooking
		appliances required by Sections 507.2 to have a
		Type I hood shall be provided with an approved

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		automatic fire suppression system complying with
		the International Building Code and the
		International Fire Code.
	510.5 Incompatable materials and common	
	shafts. New section inserted.	
	510.7.1.1 Shaft penetrations. New section.	
		510.8.1 Duct cleanout. New section.
	510.9 Duct construction. New section and	
	subsections inserted.	
	513.4.7 Smoke control system interaction.	
	New section.	
	513.5.2 Testing of leakage area. New section.	
	513.5.3 Opening protection.	
	Exceptions:	
	Revise 3. In Group I-2 and ambulatory care	
	facilities, where a pair of opposite -swinging	
	doors are installed across a corridor in	
	accordance with Section 513.5.3.1, the doors	
	shall not be required to be protected in	
	accordance with Section 716 of the	
	International Building Code. where such	
	doors are installed across corridors, a pair of	
	opposite-swinging doors without a center	
	mullion shall be installed having vision panels	
	with approved fire-rated glazing material in	
	approved fire-rated frames, the area of which	
	shall not exceed that tested. The doors shall	
	be close-fitting within operational tolerances,	
	and shall not have a center mullion or	
	undercuts in excess of ¾ inch (19.1 mm),	
	undercuts, louvers or grilles. The doors shall	
	have head and jamb stops, astragals or	
	rabbets at meeting edges and automatic-	

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	closing devices. Positive latching devices are	
	not required.	
	Insert- 4. In Group I-2 and ambulatory care	
	facilities, where such doors are special-	
	purpose horizontal sliding, accordion or	
	folding door assemblies installed in	
	accordance with Section 1010.1.4.3 of the	
	International Building Code and are automatic	
	closing by smoke det3edction in accordance	
	with Section 716.5.9.3 of the International	
	Building Code.	
	513.5.3.1 Group I-1 Condition 2; Group I-2	
	and ambulatory care facilities. New section	
	inserted.	
	513.6.3 Pressurized stairways and elevator	
	hoistways. New section.	
	513.7 Airflow design method. When	
	approved by the code official, smoke	
	migration through openings fixed in a	
	permanently open position, which are located	
	between smoke control zones by the use of	
	the airflow method, shall be permitted. The	
	design airflows shall be in accordance with	
	this section. Airflow shall be directed to limit	
	smoke migration from the fire zone. The	
	geometry of openings shall be considered to	
	prevent flow reversal from turbulent effects.	
	Smoke control systems using airflow method	
	shall be designed in accordance with NFPA 92.	
	513.11 Standby power. New section.	
	513.12.1 Verification. New section.	
	514.2 Prohibited applications.	

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	Exception: The application of ERV equipment	
	that recovers sensible heat only utilizing coil-	
	type heat exchangers shall not be limited by	
	this section.	
	CHAPTER 6 DUCT SYSTEMS	CHAPTER 6 DUCT SYSTEMS
	601.5 Return air openings. New section.	601.5 Return air openings.
		Add- 8. Return air shall not be taken from indoor
		swimming pool enclosures and associated deck
		areas.
		Exceptions:
		1. Where the air from such spaces is
		dehumidified in accordance with Section
		<u>403.2.1, Item 2.</u>
		2. <u>Dedicated HVAC systems serving only such</u>
		spaces.
	602.2.1.5 Discrete plumbing and mechanical	
	products in plenums. New section inserted.	
		602.2.1.6 Foam plastic to plenums as interior
		<u>finish or interior trim.</u> New section.
	602.2.1.7 Plastic plumbing pipe and tube.	602.2.1.7 Plastic plumbing piping and tubing.
	New section.	Exception: Plastic water distribution piping and
		tubing listed and labeled in accordance with UL
		2846 as having a peak optical density of not
		greater than 0.50, a]=n average optical density of
		not greater than 0.15, and a flame spread distance
		not greater than 5 feet (524 mm), and installed
		accordance with its listing.
		602.1.8 Pipe and duct insulation within plenums.
		New section.
603.2 Duct sizing. Ducts installed within a		
single dwelling unit shall be sized in		
accordance with ACCA Manual D -S based on		

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building loads calculated in accordance with		
ACCA Manual J or other approved heating		
and cooling calculations methodologies or		
other approved methods. Ducts installed		
within all other buildings shall be sized in		
accordance with the ASHRAE Handbook of		
Fundamentals or other equivalent		
computation procedure.		
	603.4.2 Duct lap. New section.	
	TABLE 603.4 DUCT CONSTRUCTION	
	MINIMUM SHEET METAL THICKNESSES FOR	
	SINGLE DWELLING UNITS. Revised.	
		603.5.2 Phenolic ducts. New section.
		603.8.2 Sealing. Ducts shall be approved for
		underground installation. Metallic ducts not having
		an approved plastic coating shall be completely
		encased in not less than 2 inches (51 mm) of
		concrete. Sealed and secured prior to pouring the
		concrete encasement.
	603.9 Joints, seams and connections.	
	Exception: For ducts having a static pressure	
	classification of less than 2 inches of water	
	column (500 Pa), additional closure systems	
	shall not be required for continuously welded	
	joints and seams and locking-type joints and	
	seams of other than the snap-lock and	
	button-lock types. Continuously welded and	
	locking type longitudinal joints and seams in	
	duct openings at static pressures less than 2	
	inches of water column (500 Pa) pressure	
	classification shall not require additional	
	closure systems.	
		604.11 Vapor retarders.

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		Exception: A vapor retarder is not required for
		spray polyurethane foam insulation having a water
		vapor permeance greater than 3 perms per inch
		[1722 ng/s * m ² * Pa)] of the installed thickness.
	607.3.1 Damper testing. Dampers shall be	607.3.1 Damper testing. Dampers shall be listed
	listed and labeled in accordance with the	and labeled in accordance with the standards in
	standards in this section. Fire dampers shall	this section. Fire dampers shall comply with the
	comply with the requirements of UL 555. Only	requirements of UL 555. Only fire dampers labeled
	fire dampers labeled for use in dynamic	for use in dynamic systems shall be installed in
	systems shall be installed in heating,	heating, ventilation and air-conditioning systems
	ventilation and air-conditioning systems	designed to operate with fans on during a fire.
	designed to operate with fans on during a	Smoke dampers shall comply with the
	fire. Smoke dampers shall comply with the	requirements of UL 555S, Only fire dampers
	requirements of UL 555S, Combination	labeled for use in dynamic systems shall be
	fire/smoke dampers shall comply with the	installed in heating, ventilating and air-
	requirements of both UL 555 and UL 555s.	conditioning systems designed to operate with
	Ceiling radiation dampers shall comply with	fans on during a fire. Smoke dampers shall comply
	the requirements of UL 555C or shall be	with the requirements of UL 555S. Combination
	tested as part of a fire-resistance-rated	fire/smoke dampers shall comply with the
	floor/ceiling or roof/ceiling assembly in	requirements of both UL 555 and UL 555s. Ceiling
	accordance with ASTM E119 or UL 263.	radiation dampers shall comply with the
	Corridor dampers shall comply with the	requirements of UL 555C or shall be tested as part
	requirements of UL 555 and UL 555S. Corridor	of a fire-resistance-rated floor/ceiling or
	dampers shall demonstrate acceptable	roof/ceiling assembly in accordance with ASTM
	closure performance when subjected to 150	E119 or UL 263. Only ceiling radiation dampers
	feet per minute (0.76 mps) velocity across the	labeled for use in dynamic systems shall be
	face of the damper using the UL 555 fire	installed in heating, ventilation and air-
	exposure test.	conditioning systems designed i=to operate with
		fans on during a fire. Corridor dampers shall
		comply with the requirements of UL 555 and UL
		555S. Corridor dampers shall demonstrate
		acceptable closure performance when subjected to
		150 feet per minute (0.76 mps) velocity across the

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		face of the damper using the UL 555 fire exposure
		test.
	607.3.2.4 Corridor damper ratings. New	
	section.	
	607.3.3.2 Smoke damper actuation.	
	Revise- 1. Where a smoke damper is installed	
	within a duct, a smoke detector shall be	
	installed in the duct or outside the duct with	
	sampling tubes protruding into the duct. The	
	detector or tubes within the duct shall be	
	within 5 feet (1524 mm) of the damper. with	
	no Air outlets or inlets between the detector	
	and the damper. The detector shall be listed	
	for the air velocity, temperature and humidity	
	anticipated at the point where it is installed.	
	Other than in mechanical smoke control	
	systems, dampers shall be closed upon fan	
	shutdown where local smoke detectors	
	require a minimum velocity to operate.	
	Revise- 2. Where a smoke detector is installed	
	above smoke barrier doors in a smoke barrier,	
	a spot-type detector listed for a releasing	
	service shall be installed in either side of the	
	smoke barrier door opening. The detector	
	shall be listed for releasing service if used for	
	direct interface with the damper.	
	Revise – 3. Where a smoke damper is	
	installed within an unducted opening in a	
	wall, a spot-type detector listed for releasing	
	service shall be installed within 5 feet (1524	
	mm) horizontally of the damper. The detector	
	shall be listed for releasing service if used for	
	direct interface with the damper.	

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	607.5.4 Corridor/smoke barriers. A listed	
	smoke damper designed to resist the passage	
	of smoke shall be provided at each point a	
	duct or air transfer opening penetrates a	
	smoke barrier wall of a corridor enclosure	
	required to have smoke and draft control	
	doors in accordance with the International	
	Building Code. Smoke dampers and smoke	
	damper actuation methods shall comply with	
	Section 607.5.4.1.	
	A corridor damper shall be provided where	
	corridor ceilings, constructed as required for	
	the corridor walls as permitted in Section	
	708.4, Exception 3, of the International	
	Building Code, are penetrated.	
	A ceiling radiation damper shall be provided	
	where the ceiling membrane of a fire-	
	resistance-rated floor/ceiling or roof/ceiling	
	assembly, constructed as permitted in Section	
	708.4, Exception 2, of the International	
	Building Code, is penetrated.	
	Exceptions:	
	Add- 4. Smoke dampers are not required in	
	smoke barriers required by Section 407.5 of	
	the International Building Code for Group I-2	
	Condition 2 where the HVAC is fully ducted in	
	accordance with Section 603 and where	
	buildings are equipped throughout with an	
	automatic sprinkler system in accordance	
	with Section 903.3.1.1 f the International	
	Building Code and equipped with quick-	
	response sprinklers in accordance with	

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	Section 903.3.2 of the International Building	
	Code.	
	607.5.4.1 Smoke damper. New section.	
		607.6.2 Membrane penetrations.
		Exceptions:
		1. A fire-resistance-rated assembly tested in
		accordance with ASTM E119 or UL 263
		showing that the ceiling radiation dampers
		are not required in order to maintain the
		fire-resistance rating of the assembly.
		2. Where exhaust duct or corridor air duct
		penetrations are protected in accordance
		with Section 714.5.1.2 of the International
		Building Code, are located within the cavity
		of a wall and do not pass through another
		dwelling unit or tenant space.
		3. Where duct and air transfer openings are
		protected with a duct outlet penetration
		system tested as part of a fire-resistance-
		rated assembly in accordance with ASTM
		E119 or UL 263.
	607.6.2.1 Ceiling radiation dampers.	
	Add- 3. Where duct and air transfer openings	
	are provided with a duct outlet protection	
	system tested as part of a fire-resistance-	
	rated assembly in accordance with ASTM E	
	<u>119 or UL 263.</u>	
	CHAPTER 7 COMBUSTION AIR	
	701.2 Dampered openings. New section.	
		CHARTER O CHINANEVO AND VENTO
		CHAPTER 8 CHIMNEYS AND VENTS
		805.7 Insulation shield. New section.

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	CHAPTER 9 SPECIFIC APPLIANCES,	
	FIREPLACES AND SOLID FUEL-BURING	
	EQUIPMENT	
		901.4 Solid fuel-burning fireplaces and appliances
		in Group I-2, Condition 2. New section.
	903.4 Gasketed fireplace doors. New section.	
	908.5 Water supply. Revised.	
	908.8 Cooling towers. New section and	
	subsections.	
	918.5 Outdoor and return air openings. New	
	section inserted.	
	923.1 General. Kilns shall be listed and	
	labeled unless otherwise approved in	
	accordance with Section 105.2. The provisions	
	of this section shall apply to kilns that are	
	used for ceramics, have a maximum interior	
	volume of 20 cubic feet (0.566 m ³) and are	
	used for hobby and noncommercial purposes.	
	Electric kilns shall comply with UL 499. The	
	approval of unlisted appliances in accordance	
	with Section 105.2 shall be based on	
	approved engineering analysis.	
	928.1 General.	
	Revise- 4. Be provided with an approved	
	water supply, sized for peak demand. The	
	quality of water shall be provided in	
	accordance with the equipment	
	manufacturer's recommendations. The piping	
	system and protection shall be installed as	
	required by the potable water backflow	
	protection in accordance with Section 608 of	
	the International Plumbing Code.	

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		SECTION 929 HIGH-VOLUME LARGE-DAIMETER
		FANS. New section.
		929.1 General. New section.
	CHAPTER 10 BOILERS, WATER HEATERS AND	CHAPTER 10 BOILERS, WATER HEATERS AND
	PRESSURE VESSELS	PRESSURE VESSELS
	1003.1 General. All pressure vessels, unless	
	otherwise approved, shall be constructed and	
	certified shall be in accordance with the	
	ASME Boiler and Pressure Vessel Code, shall	
	be installed in accordance with the	
	manufacturer's instructions and nationally	
	recognized standards. Directly fired pressure	
	vessels shall meet the requirements of	
	Section 1004. bear the label of an approved	
	agency and shall be installed in accordance	
	with the manufacturer's installation	
	instructions.	
	1003.3 Welding. Welding on pressure vessels	
	shall be performed by an R-Stamp holder in	
	accordance with the National Board	
	Inspection Code, Part 3 or in accordance with	
	an approved standard approved welders in	
	compliance with nationally recognized	
	standards .	
		1006.6 Safety and relief valve discharge. Revised.
	1007.1 General.	
	Exception: A low-water cutoff is not required	
	for coil-type and water-tube boilers that	
	require forced circulation of water through	
	the boiler and that are protected with a flow-	
	sensing control.	

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	1007.2 Operations. The Low-water cutoff	
	control and flow sensing controls required by	
	Section 1007.1 shall automatically stop the	
	combustion operation of the appliance when	
	the water level drops below the lowest safe	
	water level as established by the	
	manufacturer.	
	1008.1 General. New section.	
		1009.2 Where required.
		New section.
	1009.2 Closed-type expansion tanks. Revised.	
	TABLE 1009.2 CLOSED-TYOE EXPANSION	
	TANK SIZING. New table.	
	CHAPTER 11 REFRIGERATION	CHAPTER 11 REFRIGERATION
	1101.10 Locking access port caps.	
	Exception: This section shall not apply to	
	refrigerant circuit access ports on equipment	
	in controlled areas such as on roofs with	
	locked access hatches or doors.	
	1102.3 Access port protection. New section.	
		1104.2.2 Industrial occupancies and refrigerated
		rooms. This section applies only to <u>rooms and</u>
		spaces that: are within industrial occupancies:
		contain a refrigerant evaporator; are maintained at
		temperatures below 68 °F (20°C); and are used
		refrigerated rooms for manufacturing, food and
		beverage preparation, meat cutting, other
		processes and storage. Where a machine room
		would otherwise be required by Section 1104.2, a
		machine room shall not be required where all of
		the following conditions are met machinery rooms

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		are not required where all of the following
		conditions are met:
		Revise- 3. Refrigerant detectors are installed as
		required for machinery rooms in accordance with
		Section 1105.3.
		Exceptions:
		1. Refrigerant detectors are not required in
		unoccupied areas that contain only valves,
		valve assemblies, equipment, or equipment
		connections.
		2. Where approved alternatives are provided,
		refrigerated detectors for ammonia
		refrigeration are not required for rooms or
		areas that are always occupied, and for
		rooms or areas that have high humidity or
		other harsh environment conditions that
		are incompatible with detection devices.
		1105.6.1.1 Indoor exhaust opening location. New
		section.
		1106.4 Flammable refrigerants.
		Exception:
		Ammonia machinery rooms that are
		provided with ventilation in accordance
		with Section 1106.3.
		2. Machinery rooms for systems containing
		Group A21, refrigerants that are in
		accordance with Section 1106.5.
		1106.5 Special requirements for Group A21,
		refrigerant machinery rooms. New section and
		subsections.
		TABLE 1106.5.2 MINIMUM EXHAUST RATES. New
		table.

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	1106.5.2 Ventilation system. A clearly	
	identified switch of the break-glass type or	
	with an approved tamper-resistance cover	
	shall provide on-only control of the machinery	
	room ventilation fans.	
	1107.1 General. The design of refrigerant	
	piping shall be in accordance with ASME	
	B31.5. All-Refrigerant piping shall be installed,	
	tested and placed in operation in accordance	
	with this chapter.	
		1107.2 Piping location. Revised.
	CHAPTER 12 HYDRONIC PIPING	
	1208.1 General. Hydronic piping systems	1208.1 General. Hydronic piping systems shall be
	other than ground-source heat pump loop	tested hydrostatically at one and one half times
	systems shall be tested hydrostatically at one	the maximum system design pressure, but not less
	and one half times the maximum system	than 100 psi (689 kPa. The duration of each test
	design pressure, but not less than 100 psi	shall be not less than 15 minutes.
	(689 kPa). The duration of each test shall be	Exception: For PEX piping systems, testing with a
	not less than 15 minutes, Ground-source heat	compressed gas shall be an alternative to
	pump loop systems shall be tested in	hydrostatic testing where compressed air or other
	accordance with Section 1208.1.1.	gas pressure testing is specifically authorized by all
		of the manufacturer's instructions for the PEX pipe
		and fitting products installed at the time the
		system is being tested, and compressed air or
		other gas testing is not otherwise prohibited by
		applicable codes, laws or regulations outside of
		this code.
	SECTION 1210 PLASTIC PIPE GROUND-	
	SOURCE HEAT PUMP LOOP SYSTEMS. New	
	section and subsections.	
	TABLE 1210.4 GROUND-SOURCE LOOP PIPE.	
	New table.	

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	TABLE 1210.5 GROUND-SOURCE LOOP PIPE	
	FITTINGS. New table.	
		CHAPTER 14 SOLAR SYSTEMS
		1401.4 Solar energy equipment and appliances.
		Solar energy equipment and appliances shall
		conform to the requirements of this chapter and
		ICC 900/SRCC 300. Solar thermal systems shall be
		listed and labeled in accordance with the shall be
		installed in accordance with the manufacturer's
		instructions and ICC 900/STRCC 300.
		1401.4.1 Collectors and panels. New section.
		SECTION 1402 <u>DESIGN AND</u> INSTALLATION
		1402.1 General. New section.
		1402.2 Access. New section.
		1402.3.1 Relief device. New section.
		1402.4 Protection from freezing. Revised.
		1402.4.1 Drain-back systems. New section.
		1402.4.2 Freeze-protection valves. New section.
		1402.5 Protection of potable water. New section
		and subsections.
		1402.6 Protection of equipment. New section.
		1402.7 Protection of structure. New section and
		subsections.
		1402.8 Equipment. New section and subsections.
		1403.2 Heat transfer fluids. New section.
		1403.3 Food grade additives. New section.
		1403.4 Toxicity. New section.
		1404.2 Water storage tanks. New section.
		1404.3 Fluid safety labeling. New section.
		1404.4 Heat exchangers. New section.