

Summary of BBS Proposed Ohio Mechanical Code Rule Changes – October 2016

Significant Changes are highlighted in yellow

Ohio Administrative Code Rule Number	OMC Section	IMC change origin	Reason for proposed change
4101:2-2-01	Air, Makeup	2015	Modified definition
	Air, Outdoor	2015	Added definition
	Air, Transfer	2015	Added definition
	Clothes Dryer	2012	Modified definition to remove Types
	Combustible Liquid	2012	Modified definition
	Commercial Cooking Appliances	BBS initiated change	Modified definition to clarify intent
	Commercial Food Service Establishment	BBS initiated change	Modified definition to clarify intent
	Conditioned Space	2015	Modified definition
	Design Flood Elevation	2015	Modified definition
	Discrete Product	2015	Added definition
	Domestic Cooking Appliances	BBS initiated change	Added definition
	Ductless Mini-Split System	2015	Added definition
	Environmental Air	2012	Modified definition to include parking garage exhaust
	Exfiltration	2015	Added definition
	Extra-Heavy-Duty Cooking Appliance	2015	Modified definition
	Flammability Classification	2015	Moved definition from Refrigerant Safety Classification
	Flexible Air Connector	2015	Added definition
	Heavy-Duty Cooking Appliance	2015	Modified definition to add smokers and smoker ovens
	Household Cooking Appliances	BBS initiated change	Added definition
	Infiltration	2015	Added definition
	Lower Flammable Limit	2012	Modified definition
	Mechanical Joint	2012	Modified definition
	Occupational Exposure Limit	2015	Added definition
	Press Joint	2012	Added definition
	Protective Assembly (Reduced Clearance)	2015	Modified definition
	Refrigerant Safety Classification	2015	Moved part of definition

	Toxicity Classification	2015	Moved and modified definition from Refrigerant Safety Classification
4101:2-3-01	302.2	2012	Added a reference to OBC Chapter 7
	303.3	2015	Modified exception #2 to remove reference to unusually tight construction
	304.3	2012	Added an exception to the requirement to elevate the ignition source
	304.5	2012	Added a sentence requiring compliance with listing and manufacturer's instructions
	304.11	2015	Clarified guard requirements and added an exception for guards if fall-arresting restraint system is provided
	305.4	2015	Changed referenced standard to MSS SP-58
	306.1	2015	Clarifies that controls, heat exchangers, and other energy using HVAC equipment needs to be accessible
	306.5	2012	Modified access requirements for appliances on roofs
	306.5.1	2015	Changed stairs to stairways
	307.2	2015	Added an exception for condensate drain requirement
	307.2.2	2015	Removed polybutylene and added polypropylene for drain pipe
	307.2.4.1	2015	Adds requirement for inline check valve for ductless mini-split condensate drain
	307.2.5	2015	Adds requirement to enable clearing drain

			without cutting drain line
	307.3	2015	Requires that appliance shut off when condensate pump fails
	308.5	2012	Added a reference to UL 1618
4101:2-4-01	401.2	2012	Requires mechanical ventilation for dwelling units when air infiltration rate is less than 5 ACH as determined by blower door test
	401.4	2012	Clarified intake opening location requirements
	401.5	2012	Adds referenced standard AMCA 550 for louvers in hurricane-prone regions
	403.1	2015	Clarifies that mechanical ventilation air requirements for dwelling units is met via an exhaust system, supply system, or a combination of both.
	403.2	2015	Relocated a sentence to Section 403.3.1.1
	403.2.1, items #3 and #4	2015	Clarified that recirculation of air within a space is permitted, but not from a space.
	403.3	2015	Clarified ventilation requirements for dwelling units
	Table 403.3	2012	Rearranged the columns
	Table 403.3	2012	Broke out nail salons as a separate row and clarified that a source capture system is required
	Table 403.3	2012	Clarified notes e and f
	403.3.2	2015	Clarified ventilation requirements for dwelling units

	404.1	2015	Allows parking garage ventilation systems to be intermittently operated by CO and NO2 detectors.
4101:2-5-01	501.2	2012	Added a new section clarifying that certain exhaust systems need to be independent systems
	501.3	2015	Relocates the prohibition of exhausting air onto walkways from Section 501.3.1.1
	501.3	2015	Clarifies that listed domestic ductless range hoods are not required to exhaust to the outdoors
	501.3.2	2012	Adds referenced standard AMCA 550 for louvers in hurricane-prone regions
	502.8.1	2012	Adds ventilation requirement for fireworks and explosives storage areas and storage buildings
	502.9.1	2012	Exhaust system thresholds for compressed gases now based upon permit amounts in the IFC, not maximum allowable quantities
	502.9.11	2012	Reference to IFC Chapter 64 for Silne gas exhausted enclosure and gas cabinet requirements
	502.10.2	2012	Clarified exhaust duct penetration requirements
	502.14	2015	Add requirement for registered design professional engineering or factory built equipment

	502.20	2015	Adds a new section for manicure and pedicure exhaust systems
	504.5	2015	Adds a new section for dryer exhaust duct power ventilators
	504.7	2015	Relocated from section 504.6.7
	504.8	2012	Removed reference to Type 2 clothes dryer
	504.8.2	2015	Clarifies that screw protrusion of not more than 1/8 inch is permitted
	504.8.4.3	2015	Adds a new section for dryer exhaust duct power ventilators
	504.10	2012	Adds an additional condition for multi-story dryer duct system independence
	505.1	BBS initiated change	Adds new first sentence to clarify scope
	505.1	2012	Adds an independence requirement for domestic kitchen exhaust ducts
	505.1	2015	Removes reference to dwelling units
	505.1	BBS initiated change	Added exception 1 to clarify intent
	505.3	2015	Added a new section for common exhaust in a multi-story building
	505.4	BBS initiated change	Deleted section
	505.5	BBS initiated change	Clarified Group I-2 requirements
	506.3.2.3	2012	Requires 1500 F rating for gaskets and seals of duct-to- exhaust fan connections
	506.3.7.1	2012	Adds new criteria for grease duct reservoirs
	506.3.7.1	2015	Modified condition #3 to extend the full width of the duct
	506.3.8	2012	Breaks the cleanout requirements into a list and adds a 1500 F

			rating requirement for gaskets and seals
	506.3.8	2015	Adds dimensions to condition #2
	506.3.9	2012	Breaks the horizontal cleanout requirements into a list
	506.3.10	BBS initiated change –already adopted 2012 text	Relocated underground grease duct requirements from 506.3.13
	506.3.11	2012	Duct enclosure rating shall be consistent with the rating of the assembly penetrated, not less than 1 hour.
	506.3.11	2015	Relocates 506.3.11.4 to a new exception in 506.3.11
	506.3.11	2015	Clarifies that an enclosure is only required for commercial grease ducts, that in-line fans shall be enclosed unless outdoors, and that fire and smoke dampers are not permitted in grease ducts
	506.3.11.2	2012	Prohibits partial application of field-applied duct enclosure systems
	506.3.11.2	2015	Corrects the UL standard number
	506.3.11.3	2015	Clarifies that the duct enclosure assembly and firestop system needs to be installed in accordance with its listing and manufacturer's instructions
	506.3.13.3	2012	Adds the word "horizontally" to clarify intent
	506.4	2012	Relocates a requirement for Type II exhaust system independence to 501.2

	506.5.1.2	2015	Adds a new section for in-line fans
	506.5.3	2015	Clarifies that up-blast fans shall be equipped with a means of restraint to limit the swing of the fan
	507.1	2012	Reworded to clarify intent
	507.1	2015	Reorganized entire section 507 and added scoping paragraph
	507.1.1	2012 and 2015	Clarified interlock methods
	507.1.1.1	2015	Added a section addressing multiple hoods utilizing a single exhaust system
	507.2	BBS initiated change	Removed list of appliances requiring hoods
	507.2	2012	Added an exception to the requirement for a Type I hood
	507.2.1	2012	Requires flow rate label on Type I hoods
	507.2.7	2012	Clarified that field-applied grease duct enclosure systems are not to be used to protect hoods that penetrate ceiling, wall or furred spaces
	507.2.8	2012 and 2015	Added UL 1046 standard for grease filters
	507.3	2012	Clarifies when Type II hoods are required and adds a minimum exhaust rate for spaces that contain cooking appliances but no hood
	508.1.2	2015	Requires air balance schedule for the commercial kitchen ventilation system
	510.5	2015	Separated out the requirements for incompatible materials by creating a separate

			section and added a few new conditions for laboratory exhaust systems
	510.5.5	2015	Clarified that make-up air is required to comply with 401.4.
	510.7.1.1	2015	Provides a reference to specific OBC sections to address shaft penetrations of hazardous ducts
	510.8	2012	Added a suppression exception for non-combustible hazardous ducts in semiconductor fabrication facilities
	510.9	2015	Reorganized the section
	510.9.1	2012	Allows hazardous duct joints complying with SMACNA standards
	513.4.6	2015	Changed “passive” to “engineered” smoke control and changed “whichever is less” to “whichever is greater”
	513.4.7	2015	Requires the consideration of all other smoke control systems in the design
	513.5	2015	Clarifies that smoke barriers are used for passive smoke control systems
	513.5	2012	Changed “Exit enclosures” to “Interior exit stairways and ramps and exit passageways” and “All other shafts” to “Enclosed exit access stairways and ramps and all other shafts”
	513.5.2	2015	Added exceptions for Group I-1 and Ambulatory care facilities
	513.5.3.1	2015	Adds a new section addressing Group I-1,

			I-2, and Ambulatory Care Facilities
	513.6.3	2015	Adds a new section for pressurized stairways and elevator hoistways
	513.7	2015	Adds a reference to NFPA 92 when using the airflow method
	513.11	2015	Clarified standby power requirements for smoke control systems
	513.12.1	2015	Provides an exception to the verification requirement
	513.13.1	2012	Requires tubing to comply with OMC Section 602.2.1.3 (listed/labeled, flame spread and optical density requirements)
	514.1	2012	Adds standards for listing and labeling of heat recovery ventilators
	514.2	2015	Allows ERV equipment that recovers sensible heat only utilizing coil-type heat exchangers
	514.4	2012	Clarifies how recirculated air is considered in the context of energy recovery systems
4101:2-6-01	601.4	2012	Adds an exception for chimneys and vents passing through plenums
	601.5	2015	Relocates section addressing return air openings from Chapter 9
	602.1	2015	Requires ducting from the boundary of the fire area to the air handling equipment
	602.2	2015	Clarifies that construction materials that are exposed to the airflow are subjected to

			the plenum requirements
	602.2.1	2012	Clarifies that materials within a plenum must be listed and labeled if combustible
	602.2.1.1	2012	Clarifies the requirements for combustible optical fiber within plenums
	602.2.1.5	2015	Adds a new section for discreet plumbing and mechanical products in plenums
	602.2.1.6	2012	Adds a new section for foam plastic insulation in plenums
	602.2.1.7	2015	Adds a new section for plastic plumbing pipe and tubing in plenums
	603.2	2015	Allows manufacturer's installation instructions to be used for sizing dwelling unit ducts
	Table 603.4	2015	Modifies the minimum duct thickness table
	603.4.2	2015	Adds a new section for duct lap
	603.9	2015	Changes "Closure systems" to "Tapes and mastics" and adds an exception for sealing certain types of duct joints
	603.10	2012	Allows duct supports in accordance with the SMACNA standard
	603.17	2012	Adds a new section for air dispersion systems
	605.1	2015	Clarifies that all air is filtered upstream of a heat exchanger or coil
	607.1.1	2015	Allows horizontal ducts connecting shaft enclosures to not be in an enclosure if a damper is provided
	607.3.1	2015	Adds requirements for corridor dampers

	607.3.2.3	2012	Modified the combination fire/smoke damper requirements
	607.3.3.2	2015	Clarifies that duct smoke detectors can be outside of the duct if the sampling tubes protrude into the duct and requires detectors used to activate the smoke damper be listed for releasing service
	607.5	2015	Adds reference to ceiling radiation dampers
	607.5.2	BBS initiated change	Clarified when flexible air connectors can be used in fire barriers
	607.5.3	2012	Added new exception for ducted HVAC systems
	607.5.3	BBS initiated change	Clarified when flexible air connectors can be used in fire partitions
	607.5.4	2015	Clarifies when corridor vs ceiling radiation dampers are required and adds an exception for smoke dampers in certain smoke barriers
	607.5.5	BBS initiated change	Added new exception for smoke dampers in sprinklered buildings
4101:2-7-01	701.2	2015	Adds a new section requiring interlocks for dampered openings
4101:2-8-01	801.16.1	2012	Requires labeling of listed chimney lining systems
	802.9	2015	Adds a 12 inch horizontal vent terminal clearance from door swings
	804.3	2012	Requires listing and labeling of mechanical draft systems in accordance with UL 378
	804.3.8	2012	Requires listing and labeling of mechanical

			draft systems in accordance with UL 378
	805.3	2012	Clarifies requirements for factory-built chimney offsets
4101:2-9-01	902.2	2012 and 2015	Adds a labeling requirement and reference to UL 907 for fireplace accessories
	903.2	2012	Adds a reference to UL 1618
	903.4	2015	Adds a new section for fireplace doors
	905.3	2012	Adds a reference to UL 1618
	908.1	2012	Adds a reference to UL1995
	908.5	2015	Adds additional requirements for cooling tower water supplies
	908.8	2015	Adds requirements for cooling tower controls and drift eliminators
	911.1	2012	Changes standard to UL 19996
	912.1	2012	Adds a reference to UL 499
	918.5	2015	Provides pointer to other sections for outdoor intake and return air openings
	918.6	2012	Clarifies the garage prohibited source for forced air heating and cooling systems
	918.6	2015	Relocates the prohibited source section to 601.5
	922.1	2012	Adds a reference to NFPA 31
	923.1	2012	Adds a reference to UL 499
	923.1	2015	Adds a reference to alternative engineered designs.
	927	2012	Adds a new section for radiant heating systems

	928	2012	Adds a new section for evaporative cooling equipment
	928.1	2015	Adds a condition for evaporative cooling equipment water supply
4101:2-10-01	1001.1	BBS initiated change	Clarified applicability of Chapter 10
	1001.2	BBS initiated change	Clarifies enforcement responsibilities for boilers, pressure vessels, and hot water heaters
	1002.1	2012	Adds standards for solid -fuel -fired water heaters and thermal solar water heaters
	1003.1	2015	Clarified the applicable construction standard for pressure vessels
	1003.3	2015	Clarified the applicable construction standard for welding of pressure vessels
	1004.1	BBS initiated change	Allows the ASME CSD-1 as an option for the design of the boiler control system
	1004.1	2012	Adds a standard for solid-fuel-fired boilers
	1004.1	2015	Clarified boiler design standards
	1004.3.1	2012	Reorganizes the boiler top clearance requirements
	1007.1	2015	Adds an exception for the low-water cutoff control
	1007.2	2015	Adds a requirement that combustion operations stop when water circulation stops
	1008.1	2015	Changed the steam boiler blowoff valve arrangement
	1009.2	2015	Requires expansion tanks for systems operating in excess of 30 psi to be

			construction in accordance with ASME BPVC
	Table 1009.2	2015	Adds a new table for closed-type expansion tank sizing
	1011.1	2015	Allows tests to be conducted IAW manufacturer's requirements
4101:2-11-01	1101.10	2012	Allows other options for securing refrigerant caps
	1101.10	2015	Adds an exception for locking access port caps
	1102.3	2015	Requires access port protection when refrigerant is added or recovered
	Table 1103.1	2012	Updates the refrigerant classification table
	1104.1	2015	Deletes last sentence relating to worst case of fractionation
	1105.6.3	2012	Adds a new section for ventilation rate of refrigeration systems
	1105.9	2015	Clarifies that the section only applies to permanently installed refrigeration systems
	1106.3	2015	Corrects reference to 1105.6.3
	1106.4	2012	Clarifies exception
	1106.5	2012	Clarifies control requirements
	1106.5.1	2015	Allows a tamper-resistant cover instead of a break-glass switch
	1106.5.2	2015	Allows a tamper-resistant cover instead of a break-glass switch
	1107.1	2015	Adds a reference to ASME B31.5 for refrigerant piping design
4101:2-12-01	Table 1202.4	2012	Adds a standard for PE and PE-RT pipe

	Table 1202.4	2015	Removes brass, PB, and PE pipe and tubing
	Table 1202.5	2012	Adds standards for PEX fittings
	Table 1202.5	2015	Removes brass and bronze fittings
	1203.3.4	2012	Adds an exception for CPVC pipe joint primer
	1203.8	2012	Recognizes press-joints
	1203.15	2015	Removes PE pipe and tubing
	1208.1	2015	Relocated testing requirements for ground source heat pump loop systems
	1209.3.2	2015	Removed brazing filler metal melting point temperature
	1209.3.4	2015	Added a section for PE-RT piping
	1210	2015	Added a new section dedicated to plastic ground source heat pump loop systems
4101:2-13-01	1303.3.2	2015	Recognizes press-connect joints
	1306.4	2012	Added a standard for liquid-level indicating gages
	1307.1	2012	Added a standard for fuel oil valves
4101:2-15-01	1501.3	BBS initiated changes	Updated many referenced standards

