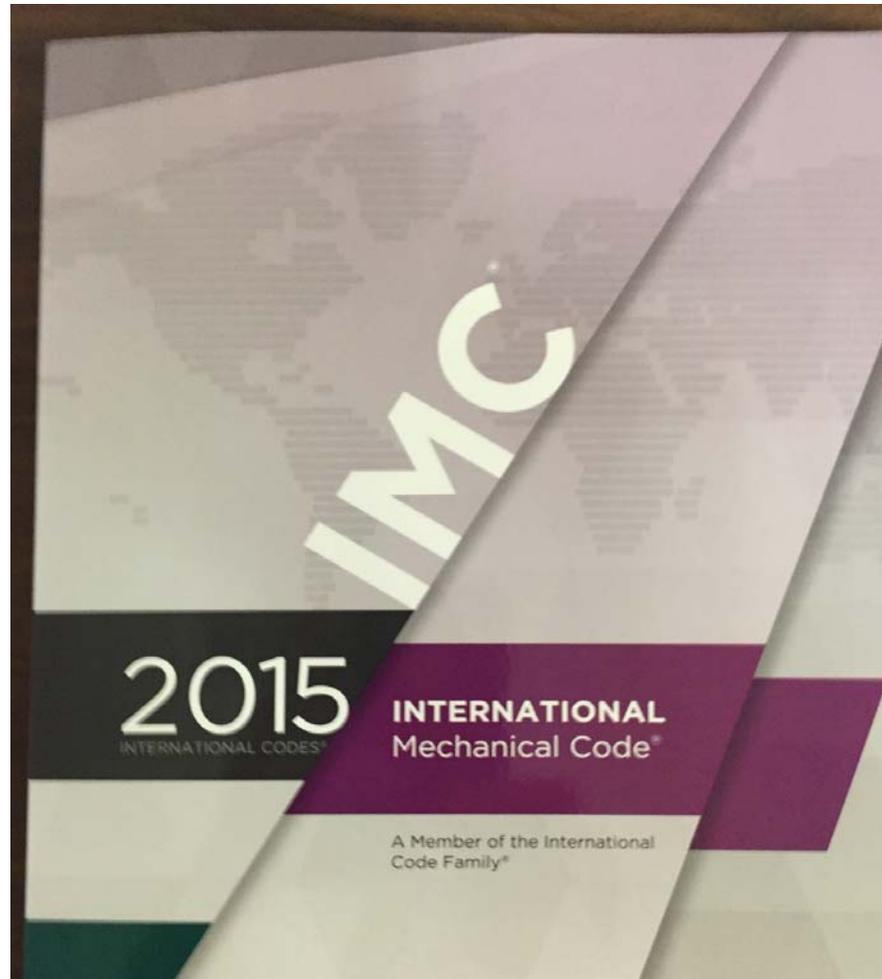


# Significant Changes to The 2015 IMC



# Ventilation

- Mechanical ventilation for ambulatory care facilities and group I2 occupancies shall be designed and installed in accordance with ASHRAE 170, not IMC table 403.3.
- Mechanical ventilation is now required for types R2, R3 and R4 occupancies.

# Exhaust Systems

- Dryer exhaust duct power ventilators for domestic dryers must be listed to the UL 705 standard. The maximum dryer exhaust length will be determined by the power ventilators' installation instructions.

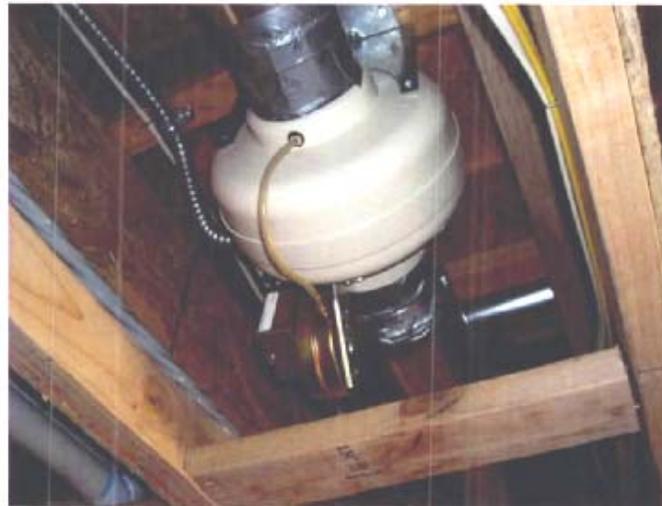


Photo courtesy of the National Fire Protection Association

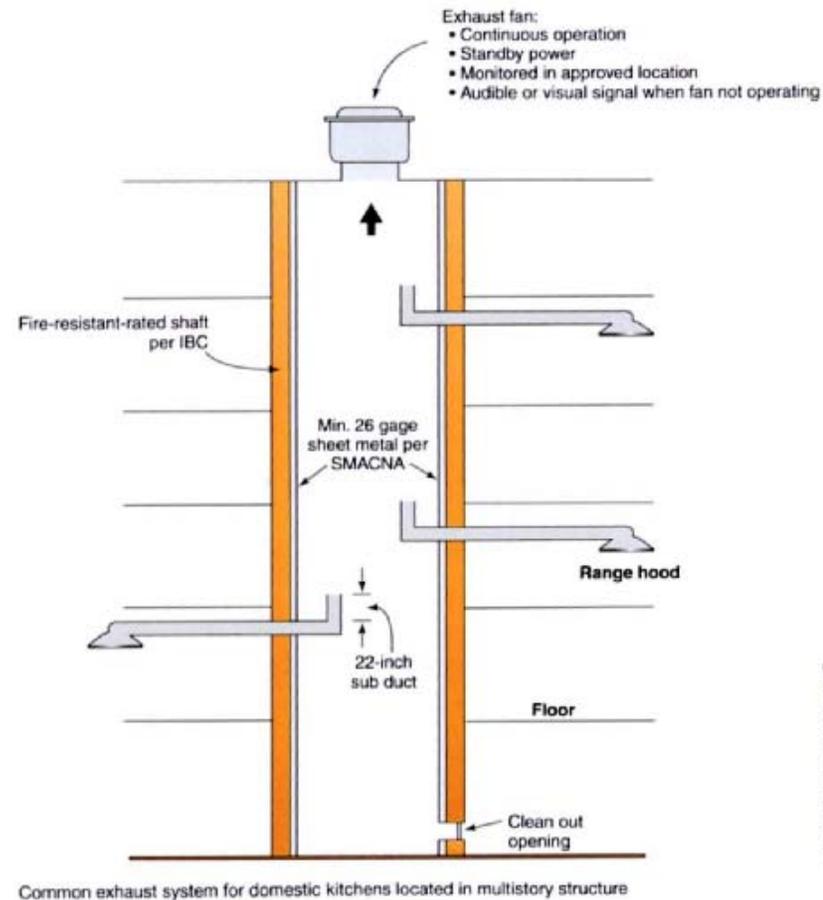
# Exhaust Systems

- Minimum local exhaust rates have been added with Section 403.3.2.3 for kitchens and bathrooms in R2, R3, and R4 occupancies.

**TABLE 403.3.2.3** Minimum Required Local Exhaust Rates for R-2, R-3 and R-4 Occupancies

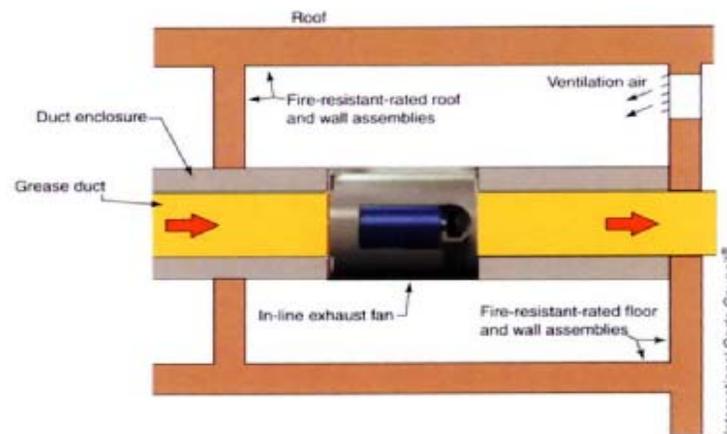
Area To Be Exhausted	Exhaust Rate Capacity
Kitchens	100 cfm intermittent or 25 cfm continuous
Bathrooms and toilet rooms	50 cfm intermittent or 20 cfm continuous

- Guidance has been added with section 505.3 to regulate the design of common exhaust systems for domestic kitchens in multistory structures.



# Commercial Kitchens

- Type I inline grease exhaust fans located indoors must be enclosed within a fire resistance rated room or enclosure equal to that of the grease duct. Access for service and ventilation openings must be provided in accordance with the fan manufacturers' installation instructions.

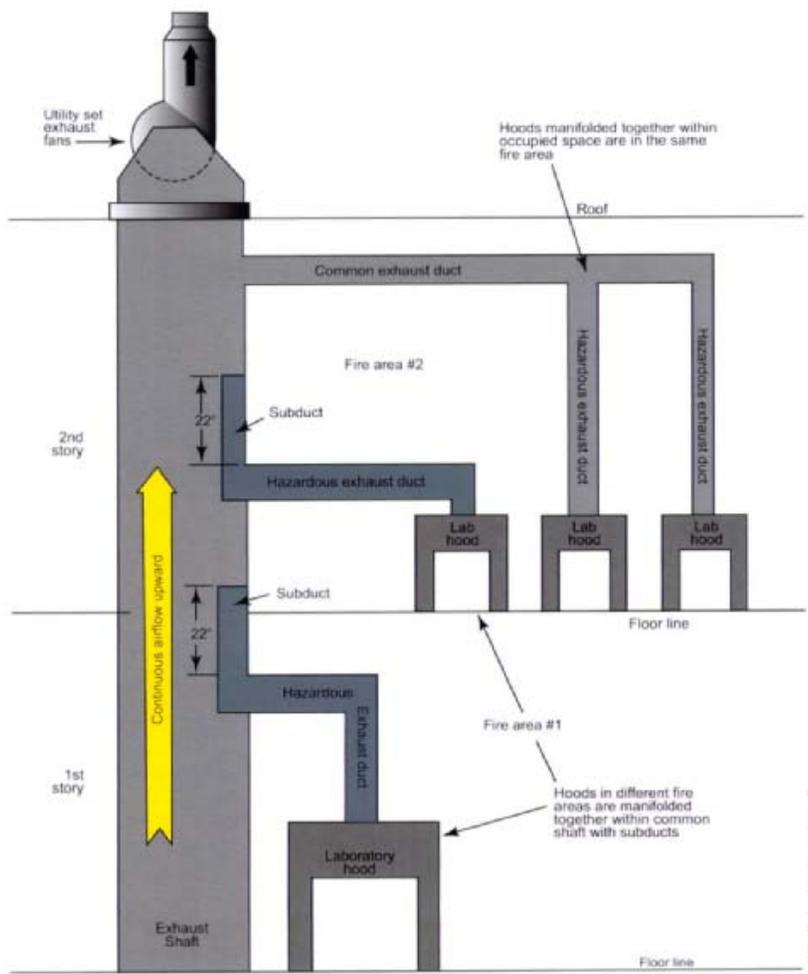


An in-line fan must be located in a room or space having the same fire-resistance rating as the grease-duct enclosure.

- Section 505.4 states that in other than use group R occupancies where domestic cooking appliances are utilized for domestic purposes, such appliances shall be provided with domestic range hoods. This is not a provision allowed in NFPA 96 and may need to be reconciled in accordance with the Department of Permitting Services' interpretation.
- Submitted design drawings which include a commercial kitchen must have an air balance schedule. The rate of exhaust must equal the rate of outdoor make up air.

# Hazardous Exhaust Systems

- Section 504.4 has been rewritten and a new section 510.5 has been added clarifying the manifolding and combined shafting of hazardous exhaust duct systems.

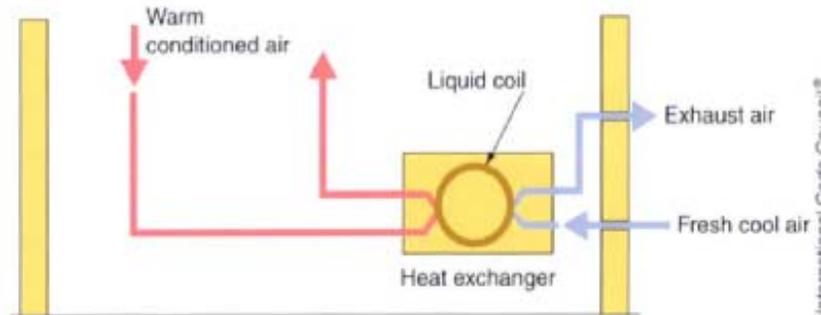


Laboratory exhaust systems manifolded together in a common shaft

- NFPA 45 Standard on Fire Protection for Laboratories Using Chemicals should also be consulted as where discrepancies occur with the IMC the most stringent will apply.

# Energy Recovery Ventilators

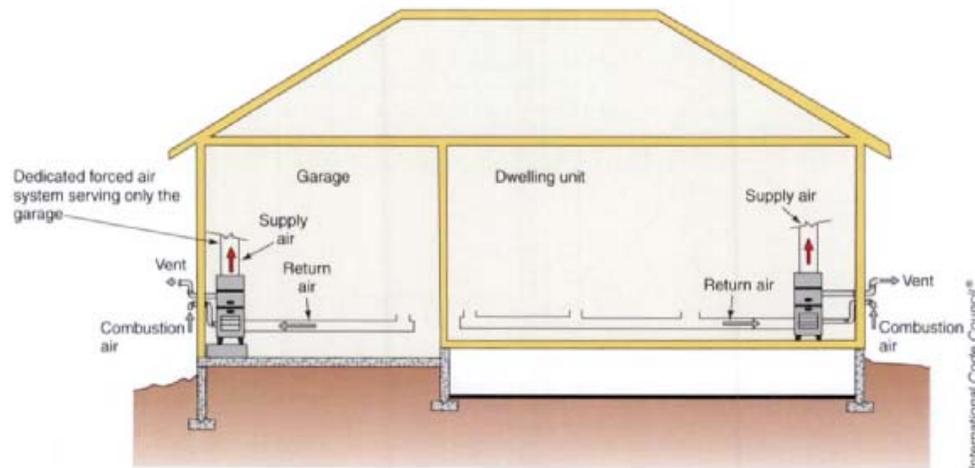
- Section 514.2 prohibits the use of energy recovery ventilators in certain applications unless they are a sensible only heat recovery type utilizing a coil type heat exchanger.



Energy recovery ventilation with coil-type heat exchangers is not limited in application by Section 514.2.

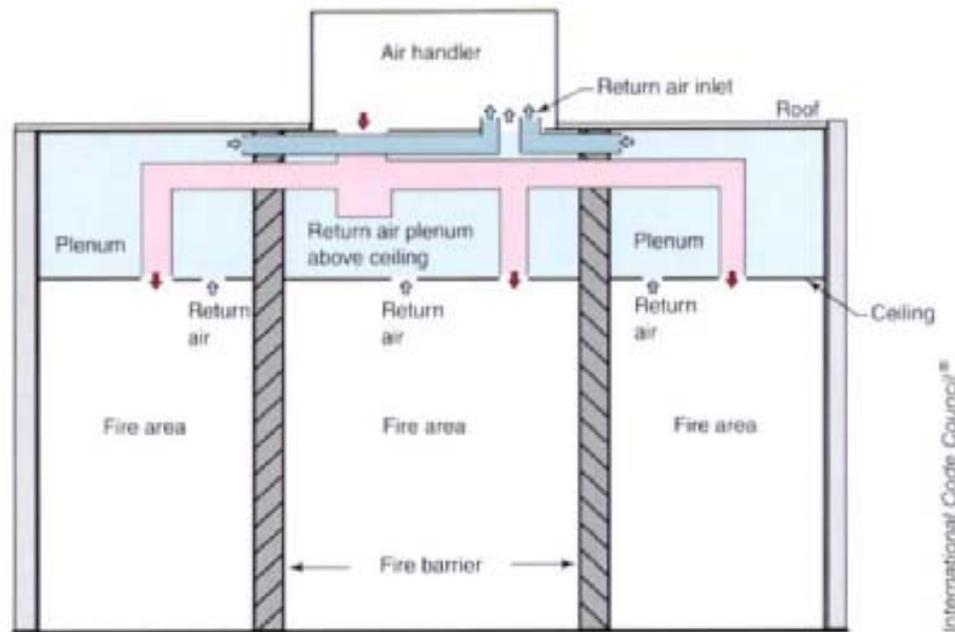
# Duct Systems

- Section 601.5 “Return Air Openings” has been added and replaces section 918.6 “Prohibited Sources” to clarify the locations and sizes for return air openings.



Furnaces and air handlers that serve a dwelling cannot also serve a garage and vice versa. Independent systems are required.

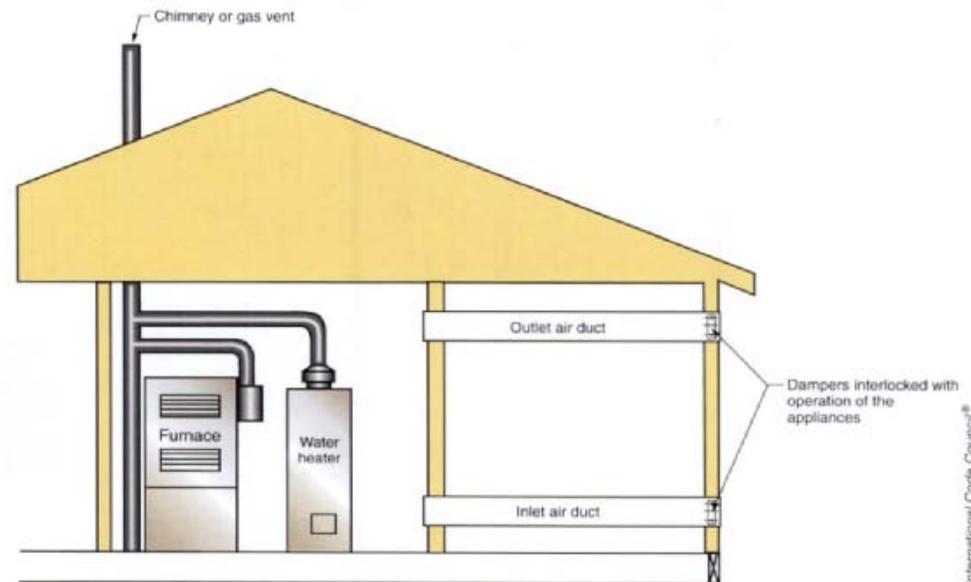
Air systems shall be ducted from the boundary of the fire area served directly to the air handling equipment. This was added to reinforce the requirement of limiting a plenum to one fire area.



Plenums are limited to one fire area.

# Combustion Air

- Where combustion air openings are provided with volume, smoke or fire dampers the dampers shall be interlocked with the firing cycle of the appliance served.



Where dampers are installed on combustion air openings, they must be interlocked to shut down appliances when dampers are closed.

# Specific Appliances

- A gasketed fireplace door shall not be installed on a factory built fireplaces except where the fireplace system has been specifically tested, listed and labeled for such use in accordance with UL 127.



Gasketed doors are prohibited on factory-built fireplaces unless the fireplace is listed for their use.