

## **44\_73\_12\_27 Ventilating systems**

The ventilating systems shall maintain temperatures, minimum air changes of outdoor air an hour, minimum total air changes, and relative humidities as follows:

### **(1)**

All occupied areas of the building shall maintain a minimum humidity level of 15% relative humidity provided through the building central ventilation system;

### **(2)**

Beauty shops shall provide a minimum of 15 air changes per hour of exhaust ventilation when the room is in use;

### **(3)**

Toilet and bathing rooms shall provide a minimum of 10 air changes per hour of exhaust ventilation; For occupied areas, the facility shall be able to maintain a minimum temperature of 75 degrees Fahrenheit (23.9 degrees centigrade) and at least 15 percent humidity at winter design conditions with a minimum of at least two total air changes an hour. All air supply and air exhaust systems shall be mechanically operated. All fans serving exhaust systems shall be located at the discharge end of the system. Outdoor ventilation air intakes, other than for individual room units, shall be located as far away as practicable but not less than 25 feet (7.62 meters) from plumbing vent stacks and the exhausts from any ventilating system or combustion equipment. The bottom of outdoor intakes serving central air systems shall be located as high as possible but not less than

six feet (1.83 meters) above the ground level or, if installed through the roof, three feet (0.91 meters) above roof level. Each mechanical ventilation system shall be designed and balanced to provide make-up air and safe pressure relationships between adjacent areas to preclude the spread of infections and assure the health of the occupants. Each room supply air inlet, recirculation, and exhaust air outlet shall be located with the grill or diffuser opening not less than three inches (0.08 meters) above the floor. A corridor may not be used to supply air to or exhaust air from any room, except that exhaust air from corridors may be used to ventilate bathrooms, toilet rooms, or janitor's closets opening directly on corridors. Continuous mechanical exhaust ventilation shall be provided in all soiled areas, wet areas, and storage rooms. In unoccupied service areas, ventilation may be reduced or discontinued when the health and comfort of the occupants are not compromised. Each cooking appliance, other than microwave ovens, shall be provided with exhaust ventilation to the exterior of the building to remove cooking odors, heat, and moisture. Each vehicle parking garage shall be provided with carbon monoxide detection to activate exhaust ventilation of six air changes each hour or to open the garage door if the area of the garage is under 1000 square feet. A sign shall be posted at the front of each parking space advising the driver to shut off the engine. Each crawl space shall be provided with mechanical ventilation at least one half air changes each day or be provided with open perimeter venting as required by the International Building Code.