

CHAPTER 1 - VENTILATION AND AIR QUALITY

400

401.03 AIR INLETS AND EXHAUSTS



INTENT

To maintain healthy internal environment for occupants by restricting entry of contaminants from outdoor sources.

REQUIREMENT

For all new and existing buildings, outdoor air intakes for all ventilation systems, including doors and operable windows, that are part of mixed mode ventilation system, must be located at a suitable distance from potential sources of contamination. This is to reduce the possibility of odor, smoke or other air contaminants entering the ventilation system. This must also be in compliance with Dubai Municipality's requirements or with the latest edition of ASHRAE Standards 62.1 and 62.2.

Exhaust air must be discharged in a way that it does not get drawn back into the building or the building ventilation system. It also must not become a nuisance to the building occupants or occupants for nearby buildings or to pedestrians.

SIGNIFICANCE

Fresh air intakes into the ventilation systems of buildings, if poorly planned and positioned, may lead to pollutants, odours and excessive heat being introduced into the building causing poor health, discomfort and increasing energy consumption. Exhaust air must be discharged in a manner that avoids it being drawn back into the building system. Exhaust air discharge must not become a nuisance to neighbouring building systems or pedestrians.

In a building, several exhaust vents such as toilet exhausts, kitchen fan exhausts, plumbing vents, cooling tower vents may be present. If separation distances are not maintained between building outdoor air intake opening or operable window or door opening with these types of exhaust vents, exhaust air would re-enter the building ventilation systems and may affect the building occupant's health.

APPLICABILITY

This regulation is applicable to all building types. Refer to Table 101.07 (1) in Section One - Administration for detailed applicability levels.