

## 401.08 Inspection and Cleaning of HVAC Equipment

For all new and existing buildings, the cleanness of HVAC equipment and systems must be maintained and all its parts must be inspected and cleaned in accordance with the standard specifications approved by Dubai Municipality and in accordance with the technical guidelines issued by Dubai Municipality. While specialized maintenance companies approved by Dubai Municipality must carry out Inspection and cleaning or provide a proof that maintenance shall be done by building operator if he has a qualified personnel and equipment to do the job.

## 401.09 Parking Ventilation

For all buildings with enclosed parking:

- A.** Mechanical ventilation must be provided to ensure that the Carbon Monoxide (CO) concentration in the enclosed parking area is maintained below fifty (50) parts per million (ppm) by:
  - Providing a minimum of six (6) outside air changes per hour, or
  - Installing a variable volume ventilation system controlled in response to input from a minimum of one CO sensor per four hundred square meters (400 m<sup>2</sup>) floor area of parking.
- B.** A supply of outdoor air must be provided to each parking level.
- C.** Occupied areas such as offices, shopping centres, hotels, waiting rooms, and ticket booths connected to enclosed parking, must be supplied with conditioned air under positive pressure compared with adjoining parking area
- D.** Ventilation systems must be capable of providing ten (10) air changes per hour for smoke clearance purposes in case of a fire incident.
- E.** CO monitoring equipment must be installed with a minimum of one CO sensor per four hundred square meters (400 m<sup>2</sup>) floor area of parking. Sound alarm triggers when the CO concentration reaches or exceeds seventy five (75) ppm in, at least, five percent (5%) of the monitored locations.
- F.** Where a Building Management System (BMS) or Central Control and Monitoring System (CCMS) is installed, the CO concentration must be monitored to allow real-time profiling and management of air quality.
- G.** CO monitoring equipment must be checked and recalibrated every six (6) months or according to manufacturer specification by a specialized calibration company certified by Dubai Municipality. Test results and calibration certificates must be kept onsite and be readily available for inspection by DM staff.

