

FIGURE E-1 Ventilation system schematic—constant volume system with no infiltration/exfiltration. ($V_{ot} = V_{oz}$ for single-zone systems).

contaminant concentration at steady-state conditions for each single-zone system are presented in Table E-1.

If the allowable breathing zone contaminant concentration is specified, the equations in Table E-1 may be solved for the zone outdoor airflow rate (V_{oz}). When the zone outdoor airflow rate is specified, the equations may be solved for the resulting breathing zone contaminant concentration.

While the calculation methods in this appendix are based on single-zone systems and steady-state analysis, calculation

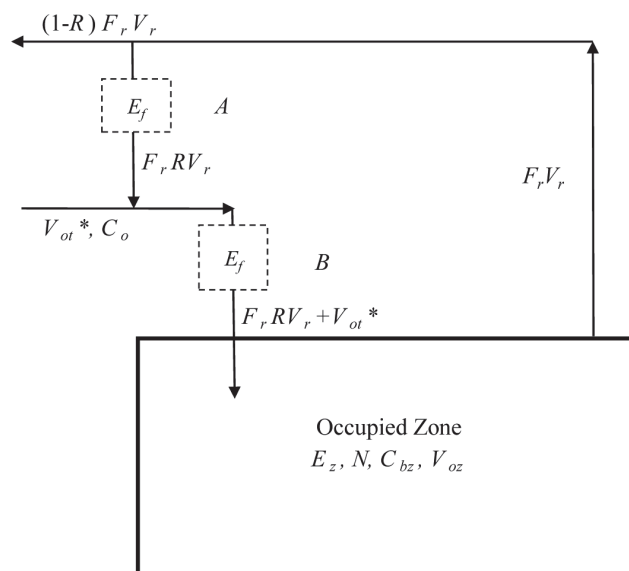


FIGURE E-2 Ventilation system schematic—variable air volume system with no infiltration/exfiltration. ($V_{ot} = V_{oz}$ for single-zone systems).

methods that account for multiple-zone and transient effects are also available ^{E-1}.

REFERENCE

- E-1. Dols, W.S., and G.N. Walton. 2002. CONTAMW 2.0 User Manual. National Institute of Standards and Technology, NISTIR 6921.