Isoflurane Exhaust Guidelines

Implement exhaust ventilation alternatives (in order of decreasing effectiveness):

a) Open induction chamber and exhaust nose cone into lab chemical fume hood (and not in recirculating biosafety cabinet).

b) Provide active scavenging through activated charcoal canisters, from induction chamber and nose cone (e.g., house vacuum, VetEquip V-1 Tabletop with Active Scavenging). Otherwise, induction chamber should be gasketed and latchable if used outside local exhaust ventilation.

c) Provide snorkel with rectangular hood, 3-6 inches above or 45% behind nose cone and induction chamber (e.g., Alsident System 75)
   (i) Typically connected to facility exhaust; or
   (ii) Could be standalone unit equipped with integrated activated charcoal filter (replaced per manufacturer’s specifications, e.g., every 6 months).

d) Consider downdraft table or plastic enclosure (“doghouse”)

Maintain local exhaust ventilation systems:

a) Weigh charcoal scavenging filter cartridge before first and every use. Do not block cartridge exhaust holes. Discard cartridge in regular trash when it gains 50 grams (or manufacturer's specification).

b) Confirm that Isoflurane vaporizer is calibrated every year.