

NOIES: Nose-Only Inhalation Exposure Systems



FEATURES

- Modular design allows for increased expandability
- Precise self-centring design
- Easy connection to a large variety of aerosol generators
- Test article fed from the bottom up
- Minimizes re-breathing
- Accommodate multiple varieties of species
- Operated under positive or negative pressure
- Can be used in any containment up to BSL4

DESCRIPTION

Our inhalation systems allow direct, nose only exposure of a test aerosol to a number of animals simultaneously. Through the patented aerosol delivery system, a homogenous distribution of the aerosol is achieved. These systems have a modular design, which mean the only limiting factor to the size of tests is the space available to test in.

The NOIES family of devices includes exposure systems for single animal, two to five animal exposure, and tiered modular systems (stackable) for 12, 16 and 18 test subjects per tier. While rats and mice are most often the subjects of Oro-Nasal Aerosol Respiratory Exposure Systems (ONARES) applications, the ONARES technologies for restraint and compound delivery as a size selected aerosol, a gas or a dust/powder can be applied to ferrets, rabbits as well as primates.

The NOIES has delivered consistent and validated results over a wide range of aerosols in all facets of research. Aerosol is generated at the bottom of the tower and directed straight to the nose of the animal. After the aerosol is delivered, exhaust air is immediately vented through the outer plenum and top of the tower minimizing any re-breathing by the animal. Easy maintenance, dependable results, and industry tested design are just a few reasons exposure systems are found throughout some of the most prestigious research facilities worldwide.

APPLICATION EXAMPLES:

- Inhalation exposure studies
- Pesticide research
- Drug development
- Cigarette smoke studies
- Infectious disease studies
- Highly toxic agent studies

SPECIFICATIONS

Modular Tier Capacity: 12, 16 and 18 animals
 Non-Modular: from 1 to 5 animals
 Species: mouse, rat, Guinea pig, rabbit, ferret
 No. of Tiers: up to 12
 Material: Stainless steel or Aluminum
 O-rings: silicon or Viton