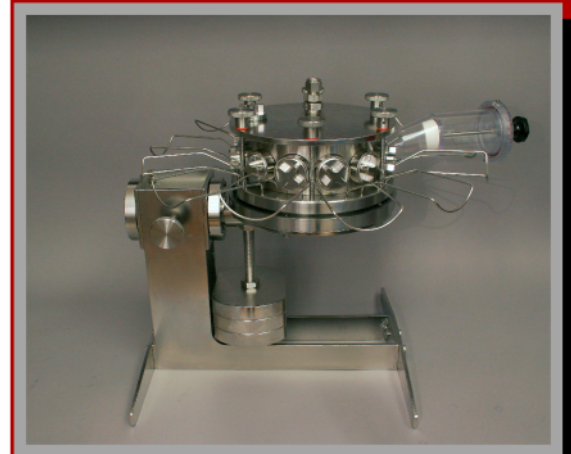


For:
Toxicology, Bio-Defense, Safety,
Pharmacology, and Infectious
Disease Research

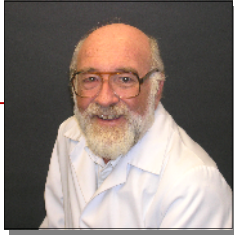


**Exposure System for
highly toxic substances.**

Products and Services

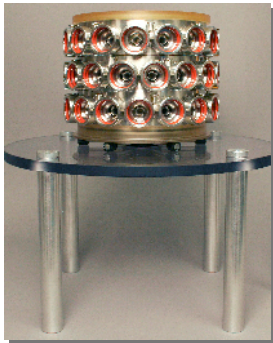
- Standard and Custom System designs for positive and negative pressure exposure.
- Aerosol Generation Devices for Liquids, Dry Powders, Biologics, and Cigarette Smoke.
- Design of Combustion Systems for Inhalation Exposure.
- Review, Conduct, and Assessment of Inhalation Study Designs.
- Custom Design of Systems with Automation Hardware/Software.

Dr. Rudolph Jaeger, DABT

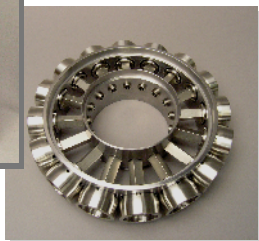


Consulting Inhalation
Toxicologist and Research
Professor (retired) at NYU
Medical School.

- Dr. Jaeger's **Inhalation Exposure Systems** are designed for Mice, Hamster, Rats, Guinea Pigs, and Rabbits.
- The patented systems are modular and expandable.
- Designed for multi-species use, offered in nickel-plated aluminum and 316 stainless steel.
- Systems are available in a variety of configurations from single to multi-tier.
- Also available as a special sealed and gimballed design for use with highly toxic atmospheres/agents.



The **New 16 Port** compact modular design system for the laboratory that requires a smaller footprint.



263 Center Avenue
Westwood, New Jersey 07675 (USA)
Phone (201) 666-2335
Fax (201) 666-8611
www.toxics.com
www.inhalation.net
www.inhalation.org
email - jaegerr@toxics.com

Available Products

The Bio-Aerosol Nebulizing Generator

(BANG) is a low flow, low dead space generator which works at 2-10 liters per minute with a pump flow that features minimal sample utilization. Additional technology is available to regulate the fluid feed, allowing adjustment of aerosol concentration. Multiple-jet versions have six times the air flow, and provide a high concentration of infectious agents.



The Vilnius Dry Powder Aerosol Generator, a new solution for dry powder aerosol generation. The generator features a

proprietary physical agitator unit, with easy sample loading and high efficiency generation.

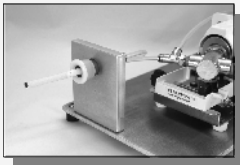
Compatible with micronized agents,

the unit utilizes closed-loop feedback control when combined with a photometer. A respirable cyclone device completes the system, and provides a unique solution for inhalation drug development and safety experiments.



Cigarette Smoking Machines

The Manual-Single Cigarette Smoking Machine CSM-SSM - Features mainstream and optional side stream collection. Various protocols, flow rates, regimens, cigarette sizes, and



tests are supported including FTC and ISO requirements. Custom "Windows" based software allows regimen programming, yet stand-alone operation once set up: a turn-key cost-effective system for animal exposure.

The Automatic Smoking Machine consist of a 30 port horizontal rotary machine, which can employ multiple human puff profile pumps. This strategy allows each cigarette to be smoked in the same manner as might be smoked by normal smokers using up to 3 puffs per minute and at smoke volumes up to 100ml per puff. Our designs are in use at a number of university laboratories and at pharmaceutical companies in the USA and Europe. The CSM was developed in Switzerland by engineer Henri Baumgartner and in the USA by Inhalation Toxicologist, Dr. Rudolph Jaeger.



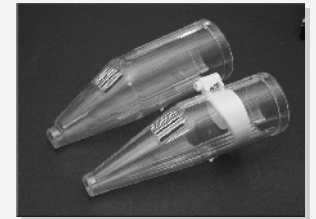
Animal Restraint Tubes

Our systems are available with various animal restraint tubes depending on the experimental requirements. All tubes fit into the standard connector cones and wire supports which then attach to the Inhalation Exposure System. Each tube is available in a sealed (closed) or open configuration that uses an adjustable pusher sized for animal, keeping it secured in place. The tubes also have molded feet which keep it anchored in the wire support, securing them to the exposure unit. Open tube versions facilitate waste collection through a trough in the bottom of the tube.



The models include:

CHT 247 Mouse, CHT 247U Mouse with urine collection, CHT 249 & CHT 250 Rat/Small Guinea Pig tubes, CHT 2500 Guinea Pig/Large Rat Tubes, CHT 2500 XL Pregnant/Very Large GP/Rat, and CHT RR Rabbit Restraint Tubes



Also, available the Skornik Plethysmograph Holder - designed for pulmonary physiology research. The tube is equipped with a pneumotach to measure air flow. CH Technologies can provide mouse, guinea pig, and rat versions of these devices.

CH Technologies can provide a wide range of Animal Restraint, for nose-only, full-body, and custom exposure needs.

Consulting, Design,
Installation and
Training Services

Our team of professional toxicologists, engineers, consultants and educators are ready to provide you with a customized solution for your research needs. Call **Dr. Rudy Jaeger** with your research requirements.