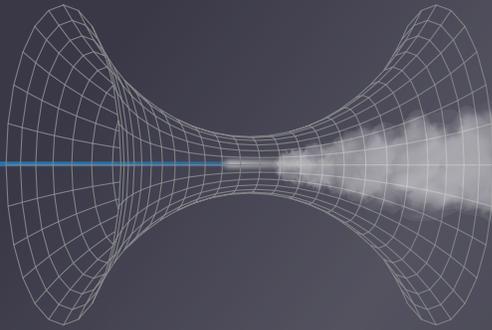


SmartStudy™ Technology

Subject-specific targeted dosing – it's about time.



For the BUXCO® Inhalation Exposure System

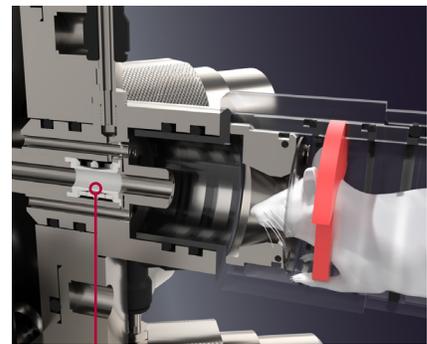
The Buxco® Inhalation Exposure System, now features SmartStudy, an industry-first that automatically stops delivery of aerosol to single or multiple-dosage groups when they reach their targeted dose. The user defines inhalation exposure targets based on dose amount or time. These are embedded in the automated protocol, replacing user intervention with software-controlled regulation.

Manual aerosol cessation is also enabled for specific subjects, while maintaining inhalation for other subjects in cases where a single animal is struggling in the chamber.

Once a subject reaches its targeted dose, port adaptors automatically shut off the flow of compound, and then provide fresh air, allowing the test subject to remain on the tower while other subjects continue to receive dosing.

This means you can now:

- Reduce the margin of error **by stopping** aerosol delivery and replacing it with fresh air
- **Decrease animal count** through targeted dosing resulting in fewer subjects required to achieve study significance.



Targeted dosing

SmartStudy Tower Port Adaptors automatically shut off the flow of the compound at the pre-determined level, then provide fresh air.

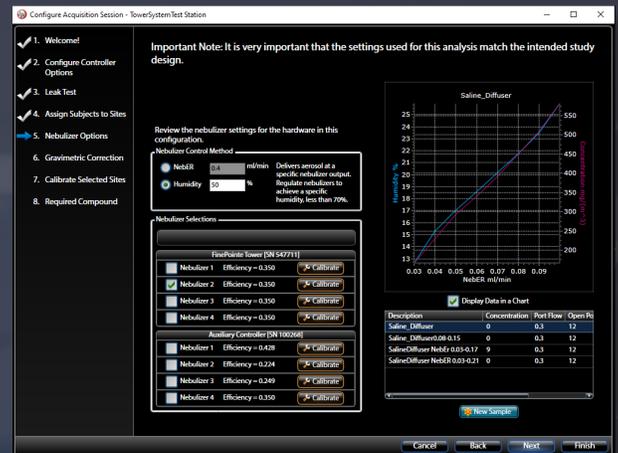
SUBJECT-SPECIFIC TARGETED DOSING. IT'S ABOUT TIME.

It's about savings: save days in study preparation

Automated system diagnostics and patented aerosol characterization procedures save days of offline calculation and research, enabling the exposure of test subjects with the best knowledge at hand.

Using a single click, you access:

- System efficiency and accuracy working range – unique to formulation and conditions
- Graphical and tabular representation of aerosol output range that meets your specific study requirements
- Critical environmental conditions data points for critical aerosol concentration setpoints
- Real-time estimated exposure time, calculated based off study definitions, previews experiment prior to actual aerosolization
- Real-time calculation of maximum API amount needed for defined exposure study
- Integrated gravimetric correction step allows confirmation or correction of digital concentration measurements



SmartStudy Tower Port Adaptor

Upgrading your system configuration for SmartStudy is simple and only requires the following additions to your current setup:

- SmartStudy Site Type
- FinePointe™ software to v3.0
- Auxiliary and MDI controllers (if not part of the existing system)
- SmartStudy Tower Port Adaptors