Pulmonary Function Testing (PFT)

Features

- Most comprehensive assessment of the lung
- Complete a series of tests in just minutes
- View results immediately, use overlays to compare repeated tests
- Ideal for chronic obstructive pulmonary disease (COPD) studies
- Determine FRC and other lung capacities
- Software reports forced expiratory volume (FEV), forced expiratory flow (FEF), and many other values
- Direct measurement of pulmonary mechanics - lung resistance and dynamic compliance
- Reports produce group average of P-V loops and F-V loops

Available for:
Mice, Rats, Guinea Pigs, and NHP. Additional species or custom chambers may be available upon request.

Available Tests:
- Boyle's Law FRC
- Fast Flow Volume
- Quasistatic Pressure Volume Resistance and Compliance analysis is also available.

Similar to spirometry in cooperative humans, the pulmonary function testing system provides comprehensive PFT data for preclinical applications.

For the functional residual capacity (FRC) test, subjects must be spontaneously-breathing. For other tests, subjects may be ventilated (ventilator included) or spontaneously-breathing. Subjects are anesthetized, and the tests are automated.

PFT controller, calibrator, and chambers. The PFT system includes a control panel with pressure/vacuum reservoirs, and plethysmograph.

An FV Loop report showing the results of two different groups on the same graph.