

Xenomatic Xenon Delivery System

- Provides ease of use, low breathing resistance, automatic oxygen replenishment, long trap life and ventilator patient capability
- Inline blower to reduce breathing resistance
- Dose delivery: Bolus at mask or delivered by system
- Patient dose concentration displays real time throughout study
- Oxygen monitor and automatic replenishment can be set at any level prescribed
- Patient dose is easily determined (at end of study) by the push of a button
- Simple three step procedure: Room Air, Rebreathe, and Washout
- Designed to directly interface with any ventilator system (3000N)
- Charcoal trapping system with 26 feet of tubing and automatic air flow control provides long trap life
- Built-in Trap Port Monitor alarms when trap needs to be changed
- Optional Remote Control permits system operation from patient's side or camera control panel



The XENAMATIC-2000N and 3000N Xenon rebreathing devices are designed to provide both the user and patient with maximum flexibility and safety when performing lung ventilation studies with Xe-133. Resistance to normal breathing is the lowest in the industry. This, coupled with an oxygen monitor and automatic oxygen replenishment, means that it is well tolerated by more patients.

The XENAMATIC 3000N has a universal interface which enables it to be used with all ventilators, thus allowing studies on patients that require breathing assistance. The activated charcoal Xenon Trap is 26 ft. long, and air flow is controlled to provide exceptionally long life.

Xenomatic Function Modes

ROOM AIR - Patient inhales from and exhales into the room through the XENAMATIC-N plumbing system.

REBREATHE - Patient breathes in the closed loop, coming to equilibrium with the Xenon stored in the system. REBREATHE starts automatically at end tidal volume so that the first breath is always an inhalation. While in REBREATHE, CO₂ is removed from the closed loop. As oxygen is consumed, it is automatically replaced.

WASHOUT - Patient inhales room air through the XENAMATIC-N and exhales into the expandable interface. The Xenon Trap pump is activated and draws the air and Xenon mixture from the interface into the charcoal trap.

END STUDY - Patient is removed and the Xenon Trap pump continues to run until a vacuum sensor indicates the expandable interface is empty. The trap pump then shuts off and returns the unit to the ROOM AIR mode.

AUTO FILL - Automatically fills the internal 5 liter breathing bag to approximately 3.5 liters, so that there is always adequate volume for the first inhalation, even for a single breath-equilibrium-washout technique.

FLUSH SYSTEM - Flushes room air through the system into the expandable interface and charcoal trap to clean all radioactivity out of the system.

SPECIFICATIONS

Size and Weight: 30" w x 24.5" d x
53.5" h; 500 lb

Electrical Requirements: 115V, 60 Hz, 1.5 amp or 230 V

Safety Approval: MET-NRTL, MET-C; (UL 544, CSA 125)

Quality System Certified to ISP9001 and EN46001

2000N Xenomatic 2000N Xenon Delivery System without Ventilator Interface

3000N Xenomatic 3000N Xenon Delivery System with Ventilator Interface

XA525 *Breathing Port Adapter

XA-20 *Xenon Gun Adapter

XA-12 *Charcoal Cartridge Pack

XA-22 Remote Controller with 10 ft. cable

*Included with purchase of Xenomatic