

Life Systems Services, Environmental Testing

Creating Point-of-Care services that meet your needs

Room Air Exchange and Trace Gas Analysis Services can help you meet safety regulations. Patient and employee exposure to airborne hazards or waste gas is a risk no institution can afford. Trace Gas Analysis and Room Air Exchange testing is available from GE Healthcare's Life Systems Services team to help you meet safety regulations, promoting a safer hospital environment.

Room air exchange surveys

Healthcare workers contend with various airborne hazards, both chemical and biological. To minimize exposure, proper work environment ventilation is key. The amount of ventilation a room receives is expressed as: the number of times air within the room is exchanged per hour. By measuring the ventilation rates of rooms where hazards are present, (including rooms where anesthetic gases are delivered or stored, patient isolation rooms, and intensive care units) healthcare facilities comply with regulatory agency recommendations for Ambient Air Monitoring.

Your GE Healthcare Field Engineer can evaluate your facility to ensure proper room ventilation and room pressure (airflow direction in relation to adjacent areas). For example, operating rooms should be positively pressurized (airflow out) to prevent unfiltered air from entering the room. Conversely, patient isolation rooms should be negatively pressurized (airflow in) to prevent the escape of contaminated air.

Let us help you comply

Let your GE Healthcare representative help ensure proper room ventilation and room pressure by:

- Surveying the ventilation of a room, measuring the volume of the room and the airflow, calculating the number of air exchanges per hour.
- Determining whether the room is positively or negatively pressurized using a direct reading vanometer.

Trace gas analysis

The Trace Gas Analysis Program will determine the level of waste anesthetic gases present. This service helps healthcare providers comply with regulatory agency recommendations for Ambient Air Monitoring including ensuring acceptable nitrous oxide levels when anesthesia equipment is not in use, minimal exposure to nitrous oxide during anesthesia administration and minimal exposure to halogenated anesthetic agents.

Trace gas testing is performed in areas where hospital personnel may be exposed to waste anesthetic gas in room air. Areas typically tested include - operating rooms, delivery suites, post-op recovery, and other areas where anesthesia may be administered, such as x-ray, lithotripsy, emergency, and endoscopy rooms.

The level of waste anesthetic gas present is determined by measuring nitrous oxide in parts per million (ppm). A real time non-dispersive infrared spectrophotometer is used to detect and measure nitrous oxide both before and during the anesthesia administration.

This method of analysis can also identify the sources of waste anesthetic gases including leakage of nitrous oxide outlets, hoses, and high-pressure components of the anesthesia machine, or improper recirculation of air. Measurements taken during the delivery of anesthetic gases are used to verify the integrity of patient breathing circuits, the low-pressure components of the anesthesia machine and waste gas scavenging systems.

Let us help you comply

Let your GE Healthcare representative help you comply with regulatory agency recommendations for Ambient Air Monitoring by:

- Testing for waste anesthetic gas to satisfy compliance with NIOSH Publication No. 77-140 and the Joint Commission requirement 7.10.16.
- Identifying the source of waste anesthetic gas and verifying the integrity of anesthesia system.



Environmental testing - value advantages

- **Agency compliance** — GE Healthcare can measure your room ventilation rates against industry standards ensure you comply with the latest agency requirements. Service documentation is provided to support Joint Commission accreditation.
- **Patient and employee safety** — Air exchange testing protects healthcare employees, patients, volunteers and visitors by helping minimize the exposure to airborne hazards. When leaks are located, most are corrected on the spot to prevent further exposure and eliminate need for follow-up calls.
- **Care area focused Field Engineers** — Testing performed by Service Representatives who are thoroughly knowledgeable on anesthesia equipment, operating room procedures and the hazards of waste anesthetic gas. Plus, your representative can repair any leaks that are detected.

Call for a customized estimate

For more information about this service, or Life Systems Service agreements, to identify a part, or to request on-site service, please call **1-800-345-2700** and speak with a customer service representative.

Life Systems Services Value Promise

Fast service response time — With over 180 local Field Service Engineers, we ensure fast response times and local service.

High technical competency — Our engineers average 12 years service experience and remain up-to-date on new equipment and technology.

Full parts coverage — We only use GE Healthcare parts. No substitutions. Our full parts coverage option maximizes equipment performance with predictable life cycle costs.

Clinical and technical education — Excellent support and training helps customers provide better patient care.

A team of professionals who care — When surveyed, 95% of Life Systems Services customers would recommend GE Healthcare service to a colleague.

At GE Healthcare Clinical Systems Services, we help you get to the point of care.

Every day 15 million patients around the world are touched by what we do.

Because of this, we know that every interaction counts, and that your reputation is your single biggest asset.

And at GE Healthcare, we thrive on transforming essential services into extraordinary outcomes for your people, processes and products.



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