



INHALATION ANESTHESIA SYSTEMS

HONEST ANSWERS FROM KNOWLEDGEABLE PEOPLE

Anesthesia Service

To better understand the services we offer, we would like to offer a brief description of an anesthesia machine's components. Most anesthesia systems are made up of these three basic components:

Anesthesia Machine

The anesthesia machine includes the frame, a connection for piped-in gases, the flowmeter(s), the oxygen flush assembly, tubing and adapters to connect a precision vaporizer, and a common outlet to connect the patient circuit. Additional items may include a CO₂ absorber, flowmeters, yoke/regulator assembly for E-cylinders, scavenging interface device, an instrument shelf, and more.

Precision Vaporizer (direct-reading, variable bypass)

The vaporizer is typically mounted on the anesthesia machine. The vaporizer changes the liquid anesthetic agent to a measurable, controllable vapor. The vapor is then delivered into the carrier gas stream from the anesthesia machine into the breathing circuit at a rate unaffected by temperature or carrier gas flow rates.

Breathing Circuit

Circuits deliver the combination of carrier gas and anesthetic agent to the patient and collect the waste gas for channeling to evacuation.



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Anesthesia Machine Services

Service includes an examination of piped-in gas connections, cylinder yoke assemblies (if present), verification and accuracy of flow rates, oxygen flush valve, CO₂ absorber (if present), gaskets, seals, tubing, connections and fittings. Disposable parts will be replaced as necessary.

Precision Vaporizer Services

Full Service

This requires the vaporizer be removed from your anesthesia machine, a comparable loaner is provided at no charge during your vaporizer's service. Service of a precision vaporizer is NOT something that can be performed on-site. At the service center your vaporizer will be completely dismantled, cleaned, wicks, seals and gaskets will be replaced, and worn or damaged parts will be replaced as needed. The vaporizer is then reassembled and recalibrated, multi-phase testing is performed to verify percentage output concentrations to factory specifications. Your freshly serviced vaporizer is then returned to you with a one-year warranty.

Output Analysis (Efficacy Test)

This includes an external physical examination of the vaporizer and a vaporizer efficacy test. This test confirms that the percent concentration set on the vaporizer dial is the correct percent concentration being delivered. A high-pressure leak test is performed. This service does nothing to repair or replace gaskets, wicks or seals of the vaporizer. It is offered as an occasional alternative for, but not a replacement of, full servicing of the vaporizer.

Breathing Circuits

Breathing circuits are generally disposable and as such, do not require service. We can replace them at your request and we will be happy to assist you in selecting or designing circuits specific to your needs.