

S/5™ Anesthesia Delivery Unit Aladin™ Cassette

Anesthetic agent vaporizer with electronic control

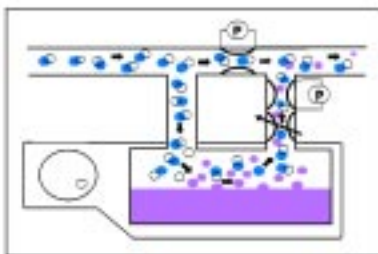


Electronic control—a new concept for vaporizing anesthetic agent

The Datex-Ohmeda S/5 Anesthesia Delivery Unit Aladin Cassette is a new concept for vaporizing anesthetic agent. The Anesthesia Delivery Unit electronic control helps provide unique features such as automatic record keeping of set agent concentration and agent usage calculation. Agent specific Aladin Cassettes can be used to deliver enflurane, isoflurane, halothane, sevoflurane and desflurane anesthetic agents.

- Electronic Control allows for automatic record keeping, gas usage calculation, fresh gas flow compensation and concentration compensation
- Each cassette is magnetically coded for its specific agent allowing the S/5 Anesthesia Delivery Unit (S/5 ADU) to automatically identify the anesthetic cassette being used
- Lightweight cassette allows for easier handling
- Virtually maintenance free
- Three filling options include: key fill, Quik Fil™ (sevoflurane only) and Saf-T-Fil™ (desflurane only)

How it works



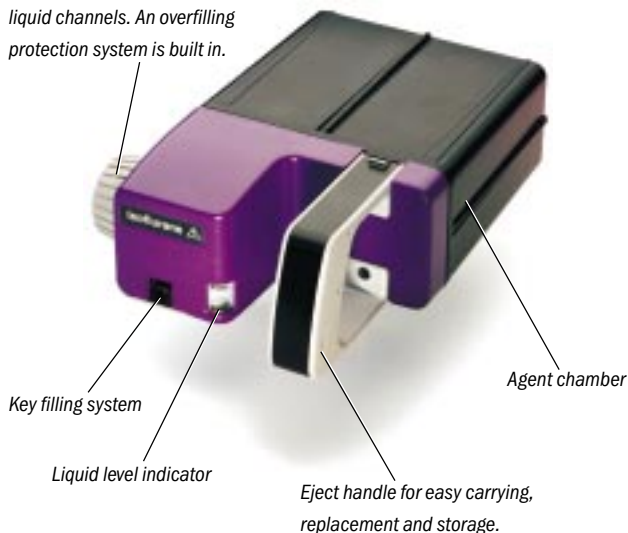
In the S/5 Anesthesia Delivery Unit (S/5 ADU), anesthetic agent control consists of two parts: the electronic control mechanism in the anesthesia machine and the separate Aladin agent cassettes.

Agent concentration is adjusted by regulating the amount of fresh gas flowing through the cassette. A throttle valve regulates how much fresh gas flows to the agent chamber. Part of the fresh gas bypasses the cassette, so the more fresh gas allowed to pass through the chamber, the greater the concentration. Both flows are electronically measured to control the throttle valve.

Each Aladin Cassette is magnetically coded for its specific agent. This allows the S/5 ADU to recognize which agent cassette is inserted.

The agent vaporizes freely in the cassette without pressurization or heating. The cassette has a temperature measuring sensor at the rear where the temperature of the agent is measured. The pressure inside the cassette is measured from the cassette flow before entering the cassette. The fresh gas content (O₂ and N₂O/Air) is taken into account to help achieve greater accuracy.

Filler wheel first locks the key filler and then opens the gas and liquid channels. An overfilling protection system is built in.



Benefits

Easier to handle

- The Aladin Cassette can be handled or stored in any position.
- Weighing only 2 to 3 kg/4.4 to 6.6 lbs, the Aladin Cassette can be easily carried and handled.



Automatic record keeping and gas usage calculation

- Electronic control of desired agent concentration provides agent setting data for automatic record keeping and fresh gas flow data.
- Gas usage data provides a unique tool for low flow savings analysis.



Enhanced safety

- During the daily system check, the S/5 ADU performs a check on the Aladin Cassette and agent control mechanism.
- S/5 ADU agent control is also monitored during operation.



Virtually maintenance-free

- The Aladin Cassette is virtually maintenance free!
- The S/5 ADU electrical control can be calibrated using the S/5 ADU's intuitive service menu.



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