

Carestation Aisys CS² Aladin, Cassettes

Anesthetic agent vaporizer with electronic control

Electronic control - a unique technology for vaporizing anesthetic agent

The electronic control on the Carestation[™] Aisys[™] CS² Anesthesia Delivery System provides unique benefits such as automatic record keeping of set agent concentrations and agent usage calculations.

Agent-specific Aladin₂^m Cassettes can be used to deliver isoflurane, sevoflurane and desflurane anesthetic agents.

Our enhanced design provides

- Integrated overfill protection
- On screen, electronic level sensing and agent identification
- Six filling options:
 - Easy-Fil[™] Filler System
 - Safe-T-Seal[™] (SEV) Integrated Valve Filler System
 - Quik-Fil[™] (SEV) Filler System
 - Piramal Fill[™] (SEV) Filler System
 - Safe-Fil[™] (DES) Filler System
 - Piramal[™] Fixed Filler (DES)

- A prismatic site glass for clear indication of liquid agent level
- Electronic Control allows for automatic record keeping, gas usage calculation, fresh gas flow compensation, and temperature/pressure compensation
- Each cassette is magnetically coded for its specific agent allowing the Aisys CS² anesthesia machine to automatically identify the anesthetic cassette being used
- Lightweight cassette allows for easier handling
- No planned factory service required
- Vaporizer self-check and diagnostics



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D0:35 Audio Passe 40 9 av cmit20 J.40 Ppeak Pmean 32 10 For Vinin 2.0/100 NV 13.50 /h 40 10 10 10 10 10 10 10 10 10 1	
OZ Total 0.92 0.92 0.92 0.92 Total 1.00 5 Des 0.92 0.92 Total Flow 0.92 Des 0.92 More 0.92 More 0.92 Settings Image: Des 0.92	——— Agent measureme

Electronic agent delivery _ control and level sensing

How it works

In the Aisys CS² system, anesthetic agent control consists of two parts: the electronic control mechanism in the anesthesia machine, and the separate Aladin₂ agent cassette.

Agent concentration is adjusted by regulating the amount of fresh gas flowing through the cassette. A proportional valve is used to regulate the flow. Part of the fresh gas bypasses the cassette, so the more fresh gas allowed to pass through the cassette, the greater the concentration. Fresh gas flow along with flows into and out of the cassette are electronically measured for safety.

Each Aladin₂ cassette is magnetically coded. This allows the Aisys $\rm CS^2$ anesthesia system to recognize which type of agent cassette is inserted.

The agent vaporizes freely in the cassette without pressurization or heating. Pressure, temperature and fresh gas content (O₂ and N₂O/Air) are taken into account to help achieve greater accuracy when compared to traditional vaporizers.

Recommended filling procedure is to remove the cassette from the system before filling, and place the cassette on a flat surface while filling.

Benefits

Convenient

- The Aladin₂ cassette can be handled or stored in any position
- Weighing less than 3.4 kg/7.5 lbs, the Aladin $_{\rm 2}$ 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
- Gas usage data provides a unique tool for low flow savings analysis

Enhanced safety

- During the recommended daily system check, the Aisys CS² anesthesia system performs a check on the Aladin₂ cassette and electronic vaporizer
- Aisys CS² agent control is monitored every 200 milliseconds during operation



Easy-Fil bottle adapters

Physical specifications

Dimensions

Height	7 cm/2.76 in
Depth	24 cm/9.45 in
Width	14 cm/5.51 in
Empty weight	2.8 kg/6.2 lb

Cassette handling

No restriction for tilting during storage or handling.

Agent capacity Total Normal fill when indicator	lso, Sev 220 mL	Des Des 240 mL
shows empty	125 mL (95 mL residual volume)	140 mL (100 mL residual volume)
Filling		
Overfilling protection	Overfilling prevention system built into the cassettes	
Filling system	Easy-Fil: Filler system for Isoflurane and Sevoflurane	
		stem compatible tem for Sevoflurane
	Safe-T-Seal: Filler system compatible with Baxter's system for Sevoflurane Safe-Fil: Filler system compatible with Baxter's system for Desflurane	
		r system compatible stem for Sevoflurane
	Piramal Fixed Fi compatible with I	ller: Filler system Piramal system

Filling speed

> 2 mL/s

for Desflurane

Environmental specifications

Temperature

Operating range	10° to 35°C/50° to 95°F
Storage range	-25° to 50°C/-13° to 122°F



Electronic specifications

Datex-Ohmed

Agent setting ranges

Isoflurane	OFF, 0.2 to 5% in fresh gas flow, resolution 0.1%
Sevoflurane	OFF, 0.2 to 8% in fresh gas flow, resolution 0.1%
Desflurane	OFF, 1 to 18% in fresh gas flow, resolution 0.2%

02+

Accuracy

Isoflurane and Sevoflurane

In typical operating conditions:

Ambient temperature	18° to 25°C ±10% of setting or
	±0.2% v/v (whichever is greater)
	Fresh gas flow range 1 to 10 L/min

In other operating conditions:

Ambient temperature10° to 35°C ±20% of setting or
±0.4% v/v (whichever is greater)Fresh gas flow range 0.2 to 15 L/min

Desflurane

Aisvs CS

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In typical operating conditions:

Ambient temperature	18° to 25°C ±10% of setting or
	±0.5% v/v (whichever is greater)
	Fresh gas flow range 1 to 10 L/min

In other operating conditions:

Ambient temperature10° to 35°C ±20% of setting or
±1% v/v (whichever is greater)Fresh gas flow range 0.2 to 15 L/min

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The filler ports depicted in this datasheet may not be available in all countries and regions. Contact your GE Healthcare representative to see if a specific filler port is available in your country. The Aladin Cassette for Desflurane with Piramal Fixed Filler is not cleared in the USA. Not available for sale in the United States.

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