

GE Healthcare

EVERYTHING FLOWS TOGETHER

Avance* CS² with ecoFLOW



ANESTHESIA REMASTERED. A CARESTATION FOR THE DIGITAL AGE.

How do you deliver the exciting potential of new technology and integrate it seamlessly into a familiar platform? You have to create a new, modern class of anesthesia system and ground it with practical user-friendly features so that everything flows together.

Although redesigned from the ground up, we built the Avance CS² using familiar platform components from the original Avance Carestation, leveraging our 100-year expertise as the global leader in anesthesia delivery. We then chose to enhance it even further with innovative technologies and intuitive workflow features for those who value sophisticated, high-acuity care.

Anchoring the Avance CS² is a sleek user-interface enabled by a beautiful 15-inch touchscreen display. See for yourself how it can help take the work out of your workflow.

With everything flowing together, the Avance CS² isn't just another anesthesia delivery system. It's a Carestation.





Avance CS2



O₂⁺

INTRODUCING
ecoFLOW



LOW FLOW. HIGH IMPACT.

Clinicians skilled in the practice of low and minimal flow anesthesia delivery understand that sometimes less is more. That's why we developed ecoFLOW, an efficient anesthesia delivery technology that helps you avoid unnecessarily high fresh gas flow rates while providing visual guidance to help optimize patient oxygenation. Anesthetic agents are not only costly, but scientific evidence suggests that excess inhaled agents released into the atmosphere have the potential to affect the environment¹. Offered on the Avance CS², ecoFLOW may have a positive impact on the environment when agent waste gases are reduced.

Bringing anesthesia technologies like ecoFLOW to the forefront of your OR care has its benefits.



PATIENT

Patient oxygenation plus fast wash-in and wash-out of agent for rapid response, which may help optimize time in the OR



ECONOMICAL

Using less agent means spending less money, which can have a positive impact on your bottom line



ECOLOGICAL

Efficient, lower flow reduces agent and gas waste, addressing concerns about volatile greenhouse gas emissions²



PRECISE CARE. WITH A PERSONAL TOUCH.

We know how much time you spend working with anesthesia systems. In fact, we analyzed countless Avance Carestation data logs reviewing keystrokes and menu interactions to design intuitive menus and alarms along with a user interface that truly fits the way you work.

Every Avance CS² represents a convergence of our premium anesthesia and patient monitoring heritage. We've seamlessly integrated patient monitoring and data management through a user interface similar to our CARESCAPE* monitors. Featuring the same engaging touch screen technology found on most consumer

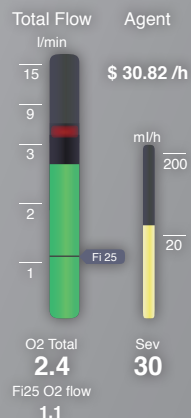
digital devices today, the 15-inch ventilator display makes navigation, monitoring and operation easy and intuitive. With time-saving quick pick choices, flat menus and tunneling alarms, the Avance CS² can help you deliver precise care with a personal touch every day.

Our new ecoFLOW technology brings a new way of displaying oxygen and agent flow tubes. Through an easy to understand digital display, the ecoFLOW option can show you your pre-set target and calculate potential savings in real-time.

ECOFLOW TECHNOLOGY

A new way to look at flow tubes to help ensure adequate oxygenation guidance.

Illustration shows flows above the Fi25 target as potential waste gas or excess to the patient consumption.



ECOFLOW SAVINGS

ecoFLOW shows you a target and calculates potential savings associated with the cost of liquid agent that corresponds with your set flow.

Clinicians use the information to adjust O2 flow to help avoid hypoxic delivery or excess O2 delivery.

TURN WORKFLOW INTO CAREFLOW.

The advanced features and technologies built into the Avance CS² were thoughtfully designed to work together to make your workflow easier. We engineered each piece of hardware, software and technology to not only be innovative on their own merit, but to fit together in harmony so everything just works.

We've built our ventilation engine around the electromagnetic proportional flow valve that precisely controls delivered volumes and pressures similar to those found in ICU ventilators like our Engström* Carestation. This helps you ventilate the most difficult patients, from neonates, to the lung compromised to the morbidly obese.



Neonatal Ventilation



Lung Ventilation
PROCEDURES



AIMSReady





SEV
Automatic O₂ Control

GREATER THAN THE SUM OF ITS PARTS.

- 1 FLEXIBLE 15-INCH TOUCH VENT DISPLAY
- 2 CENTRAL BRAKE
- 3 TWO OR THREE VAPORIZER OPTION
- 4 DUAL-LEVEL ILLUMINATED DESKTOP
- 5 ERGONOMIC GRIPS AND HANDLES
- 6 ADVANCED BREATHING SYSTEM
- 7 INNOVATIVE GE HEALTHCARE GAS MONITORING TECHNOLOGY
- 8 CARESCAPE MONITOR B650

RELIABILITY AND PERFORMANCE DEMANDED
BY OUR HARSHTEST CRITIC...OURSELVES

200,000 SOFTWARE ACTIONS

1.4 MILLION CYCLES OF BAG-TO-VENT SWITCH

EXTREME TEMPERATURE TESTING

INTERFERENCE AND SHOCK TESTING



SAFETY IN NUMBERS. OVER A CENTURY OF ANESTHESIA INNOVATION.

From Thomas Edison's first commercially viable light bulb to our first fully digital³ anesthesia Carestation, we've continued to redefine what's possible. Today, we provide anesthesia technologies in nearly every country in the world, collaborating closely with clinicians like you to impact the lives of your patients.

OVER
100
YEARS
IN ANESTHESIA

OVER
100
CURRENTLY
ACTIVE PATENTS⁴

OVER
100
THOUSAND UNITS
SOLD WORLDWIDE⁵

1 There are several online resources available to learn more about the environmental impact of anesthetic agents including:

General Anesthetic Gases and the Global Environment (author Yumiko Ishizawa, MD, MPH, PhD) *Anesth. Analg.* September, 2010

Global Warming Potential of Inhaled Anesthetics: Application to Clinical Use (authors: Susan M. Ryan, MD, PhD, and Claus J. Nielsen, CSC) *International Society for Anaesthetic Pharmacology* July 2010
www.anesthesia-anelgesia.org

2 Schober P, Loer SA. Closed system anaesthesia—historical aspects and recent developments. *Eur J Anaesthesiol* 2006;23:914–20

3 Aisys Carestation primary elements including ventilator, vaporizer and gas delivery are digitally controlled.

4 As of May 2012, active GE Healthcare anesthesia and respiratory patents issued in the United States.

5 Anesthesia machine shipments over the past 25 years based on GE Healthcare shipping data.



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imagination at work