



Carestation 750 Anaesthesia Delivery System

Individualized
therapy at your
fingertips

Our commitment to you

Quality and patient safety

- A trusted and reliable leader in anaesthesia delivery for over 100 years

Uncompromised ventilation

- Compact Breathing System
- Modular, integrated design
- Advanced ventilation modes*

Enhanced user experience

- Touch screen display*
- Automated procedures*
- Designed to enhance workflows

Low cost of ownership

- Flexible and modular configurability
- Low maintenance costs
- ecoFLOW technology*



Unified user experience



Carestation 620



Carestation 650



Carestation 750



Aisys CS²

ANALOG



DIGITAL

BASIC ACUITY CARE



HIGH ACUITY CARE

SCALABLE



UPGRADEABLE



The image shows a GE Carestation 750 Anaesthesia Delivery System, a complex piece of medical equipment used for administering anesthesia. It features a main console with two large monitors. The top monitor displays vital signs, including a heart rate of 60 and a blood pressure of 120/82. The bottom monitor shows a detailed waveform and numerical data. The system includes a ventilator, a vaporizer, and a gas flowmeter. A green oxygen reservoir is attached to the side. The entire unit is mounted on a four-wheeled cart for mobility.

Carestation™ 750 Anaesthesia Delivery System



Carestation 750—Individualized therapy at your fingertips



Advanced Clinical Tools

- Individualized oxygenation for low-flow anaesthesia
- Automated lung recruitment maneuvers
- Customizable case profiles



Intuitive User Interface

- Direct access to main procedures
- Flexible user interface
- Clear status indication
- Consistent user interface
- Intelligent lighting



Efficient, Ergonomic Design

- Ergonomic convenience
- Streamlined cable management
- Fast, guided and complete checkout
- Streamlined care pathway





Advanced Clinical Tools

- Individualized oxygenation for low-flow anaesthesia
- Automated lung recruitment maneuvers
- Customizable case profiles





Reducing fresh gas flows

Patients metabolize only a small percent of the gas an anaesthesia machine delivers.
Every patient is different and low flows make precision oxygenation and the avoidance of hypoxic mixtures complex.



ecoFLOW
15-30%
savings in anaesthetic
agents equal...¹



... **350**
cars/year
in environmental
impact^{2,3}



Optimal patient
humidity can be
maintained at lower
fresh gas flows



Low-flow anaesthesia
helps preserve patient
temperature during
surgery⁴



1) Hospitals can be spending an extra 15%-30%1 for anesthetic agents in an OR due to high flow Estimates derived from GE's Healthcare ecoFlow Calculator <https://gehealthcareamer.my.salesforce.com/sfc/#version?selectedDocumentId=069a0000004eOn7>

2) Global Warming Potential of Inhaled Anesthetics: Application to Clinical Use, Susan M. Ryan, MD, PhD, and Claus J. Nielsen, CSc International Society for Anaesthetic Pharmacology www.anesthesia-anelgesia.org July 2010; v111 #1.

3) Environmental Protection Agency. Emissions facts: greenhouse gas emissions from a typical passenger vehicle. Available at: <http://www.epa.gov/oms/climate/420f05004.htm#key>

4) Bengtson JP, Bengtson A, Stenqvist O. The circle system as a humidifier. Br. J. Anaesth.63,453-457 (1989).

ecoFLOW Software

Every patient consumes oxygen differently. ecoFLOW software may help mitigate the risk of hypoxic delivery or avoid excess Fresh Gas Flow (FGF) delivery.

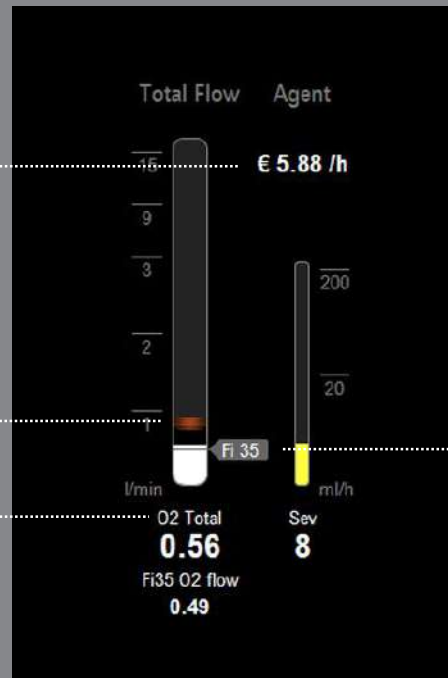
Agent cost

Determined by multiplying agent flow and liquid agent cost (set by user)

Flow bobbin represents the total fresh gas flow delivered to the patient

O₂ total

If air is the balance gas, this is set O₂ flow plus 21% of the air flow



The FiO₂ flag



Area above FiO₂ marker represents oxygen flow in excess to set patient requirement

Fi 35

The marker on the flow tube equals FiO₂ flow value



ecoFLOW benefits

By choosing minimal total FGF, the environmental impact of anaesthetic vapors and gases can be minimized.



POTENTIAL FOR REDUCED AGENT USAGE

A busy midsize US hospital might purchase

1000 litres

of inhaled anaesthetic per year¹

Savings with reduced agent emissions²



FLOW RATE /litre	USAGE ml/hr liquid agent		SAVINGS %
6	32.30		
3	16.20	▶	50%
2	10.80	▶	67%
1	5.40	▶	83%



1) Global Warming Potential of Inhaled Anesthetics: Application to Clinical Use Susan M. Ryan, MD, PhD, and Claus J. Nielsen, CSc International Society for Anaesthetic Pharmacology www.anesthesia-analgesia.org July 2010 v111 #1

2) Reduction and savings depends on clinical practice. Data shown is for illustrative purposes only.



The clinical benefits of protective lung maneuvers



7%

of annual global general anaesthesia cases are at risk of post operative pulmonary complications¹

Improper ventilation during anesthesia can cost over

\$25K

/case in post-op lung complications²

1) 7% postoperative pulmonary complications found in a study of low risk patient populations, higher rates would be expected for the general population that also includes high risk populations. Epidemiology, practice of ventilation and outcome for patients at increased risk of postoperative pulmonary complications - LAS VEGAS - an observational study in 29 countries - Eur J Anaesthesiol 2017; 34:492-50

2) Improper ventilation during Anesthesia can cost over \$25K/case (3) in post-op lung complications. Fleisher, L. A., & Linde-Zwirble, W. T. (2014). Incidence, outcome, and attributable resource use associated with pulmonary and cardiac complications after major small and large bowel procedures. Perioperative Medicine, 3(7). doi:10.1186/2047-0525-3-7.



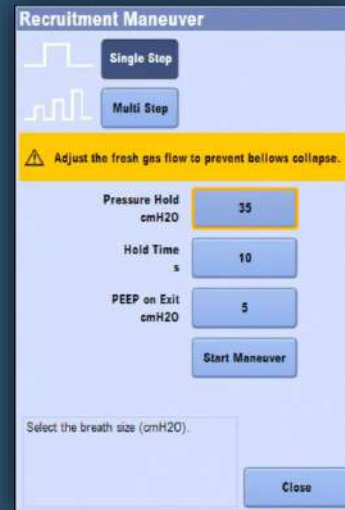


The clinical benefits of protective lung maneuvers



Single-step recruitment maneuver

Automates the manual bag squeeze and hold. PEEP can be programmed at the end of the procedure to help sustain an open lung.^{1,2}



Multi-step recruitment maneuver

Allows you to configure a lung recruitment maneuver. Programmable steps allow for increasing and decreasing PEEP levels and other parameters during mechanical ventilation. PEEP can be programmed at the end of the procedure.



Real-time compliance results during automated lung ventilation procedures



1) Tusman, G., Bohm, S. H., Tempra, A., Melkun, F., Garcia, E., Turchetto, E., . . . Lachmann, B. (2003). Effects of recruitment maneuver on atelectasis in anesthetized children. *Anesthesiology*, 98(1), 14-22.

2) Reinius, H., Jonsson, L., Gustafsson, S., Sundbom, M., Duvernoy, O., Pelosi, P., . . . Freden, F. (2009). Prevention of atelectasis in morbidly obese patients during general anesthesia and paralysis: a computerized tomography study. *Anesthesiology*, 111(5), 979-987.



Advanced ventilation with a personal touch



Delivers tidal volumes as low as 5 ml in PCV mode¹



Monitors and responds to changes in patient airway pressure up to 250 times/sec



Precision volume and pressure delivery to patient wye, breath by breath, helps reduce challenges in managing neonatal and pediatric patients



Real time compliance results during automated lung ventilation procedures



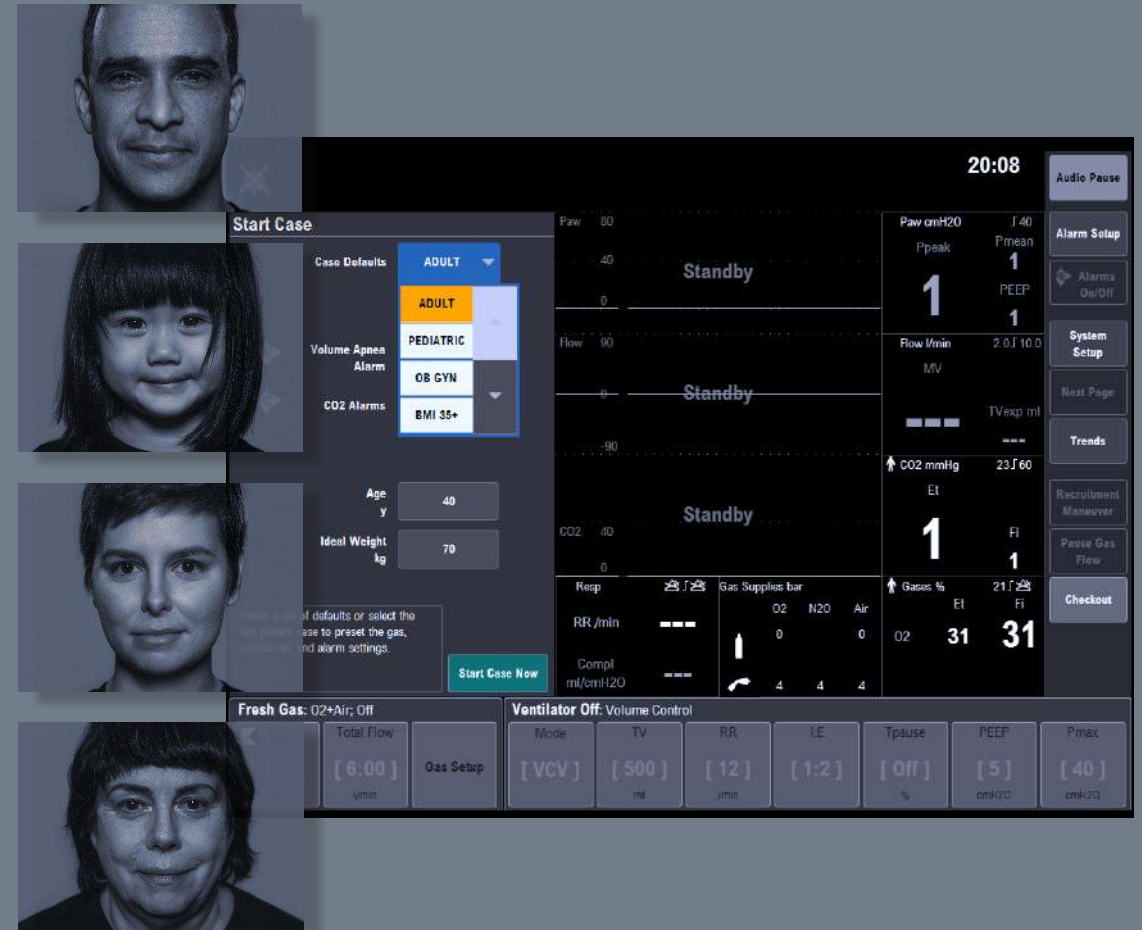


Customize for different patients and procedures

For each profile—available at one touch—you can preset:

- Starting ventilation parameters
- Alarm limits
- Apnea time
- Screen layout

and many other essential parameters





Intuitive User Interface

- Direct access to main procedures
- Flexible User Interface
- Clear status indication
- Consistent user interface
- Intelligent lighting





Immediate access to key features

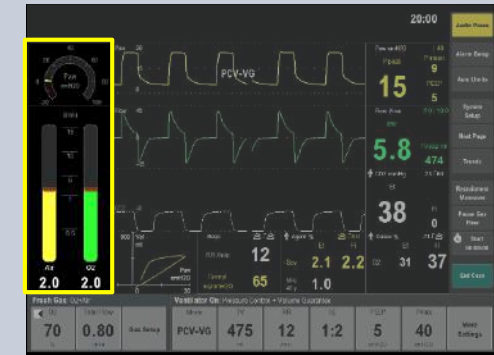
Intuitive touchscreen. Instinctive touchpoints.

- A** **ecoFLOW display option** Press to toggle between ecoFLOW display and traditional flow tube display.
- B** **Direct access to recruitment maneuvers**
- C** **Direct access to pause gas**
- D** **Hard key and comwheel**





Tailor interface to clinician preference





Intelligent workflow on display

Clear on-screen status indicators to help clinicians confidently navigate the system.



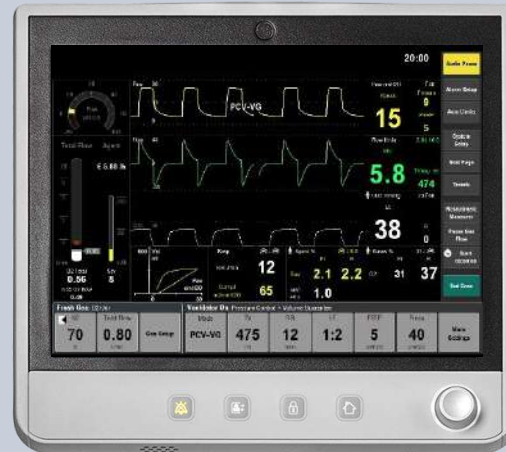
Standby screen



ACGO



Aux O₂+Air



ecoFLOW display option



Paw display: during case



Quick pick



Consistent user interface

A standard user interface across the Carestation anaesthesia machine and CARESCAPE™ Patient Monitor portfolio helps reduce training time, so you can focus on patient care from transport to bedside.



Intelligent lighting



Whenever auxiliary ports are in use, lighting indicates the active flow controls.





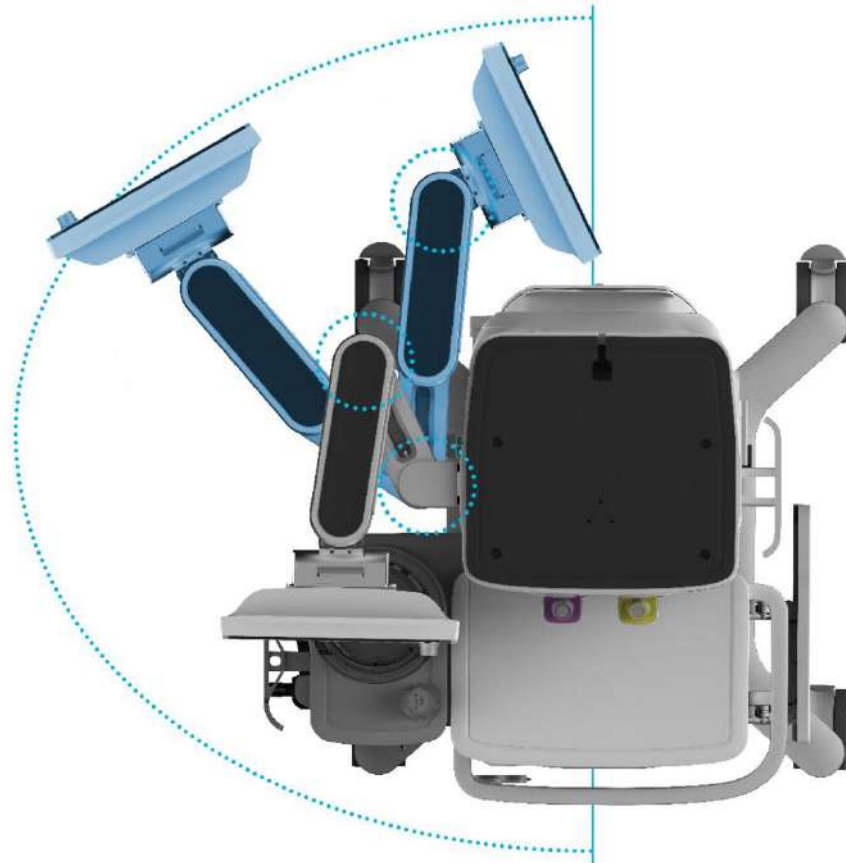
Efficient, Ergonomic Design

- Ergonomic convenience
- Streamlined cable management
- Fast, guided and complete checkout
- Streamlined care pathway





Ergonomic convenience



Premium display arm

An optional, fully articulated arm places the display where you need it.

The display can be positioned for optimal viewing even if you need to step or move into an alternative position without compromising your view.





Premium display arm

Designed with maximum mounting flexibility in mind.



Maximum flexibility to stay close to the patient:

- **Extend**
- **Tilt**
- **Raise/lower**
- **360° swivel**





Simplified cable management



No hassle, better workflow

A specially designed rear door covers all cables and hoses, yet still allows easy access to gas cylinders, gas connectors and circuit breakers. Cables and hoses are shielded from dust, and the smooth exterior simplifies surface cleaning.





Fast, guided and complete checkout

The daily checkout routine is as simple as it is thorough. Step-by-step, on-screen guidance lets you run a complete checkout in **as little as 3 minutes.**



Improper equipment checking can lead to potential patient injury.

35%

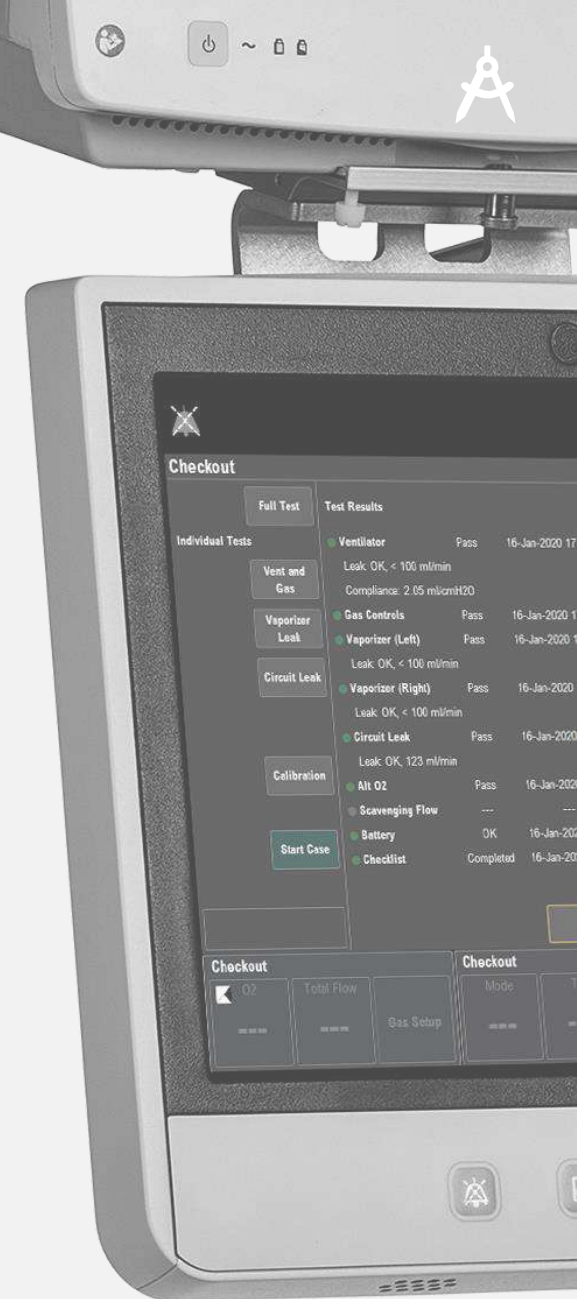
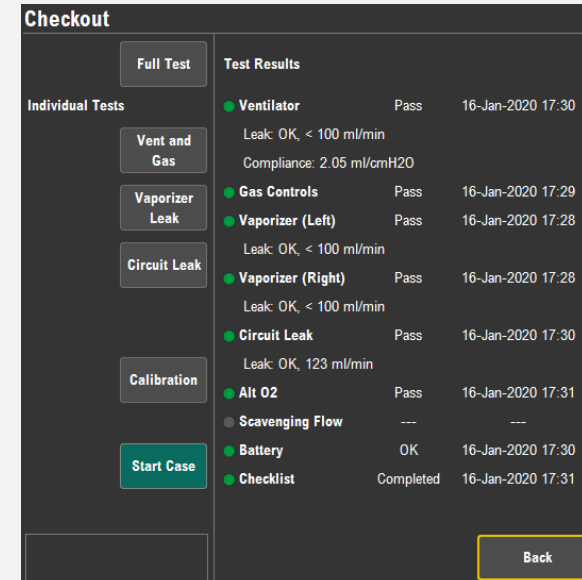
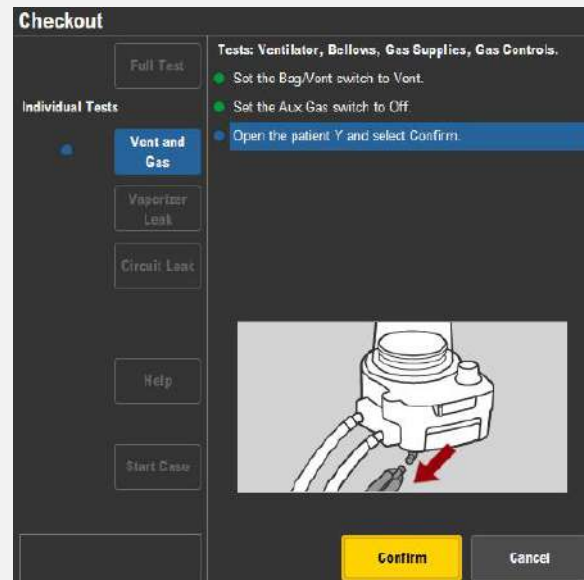
of patient injuries from anaesthesia gas delivery were preventable by pre-use check¹



Fast, guided and complete checkout

Complete, ASA-recommended checkout in under three minutes.
Guided for ease of use.

- Clear status icons
- Leak test results
- Compliance of patient circuit
- Date and time stamping
- Vaporizers



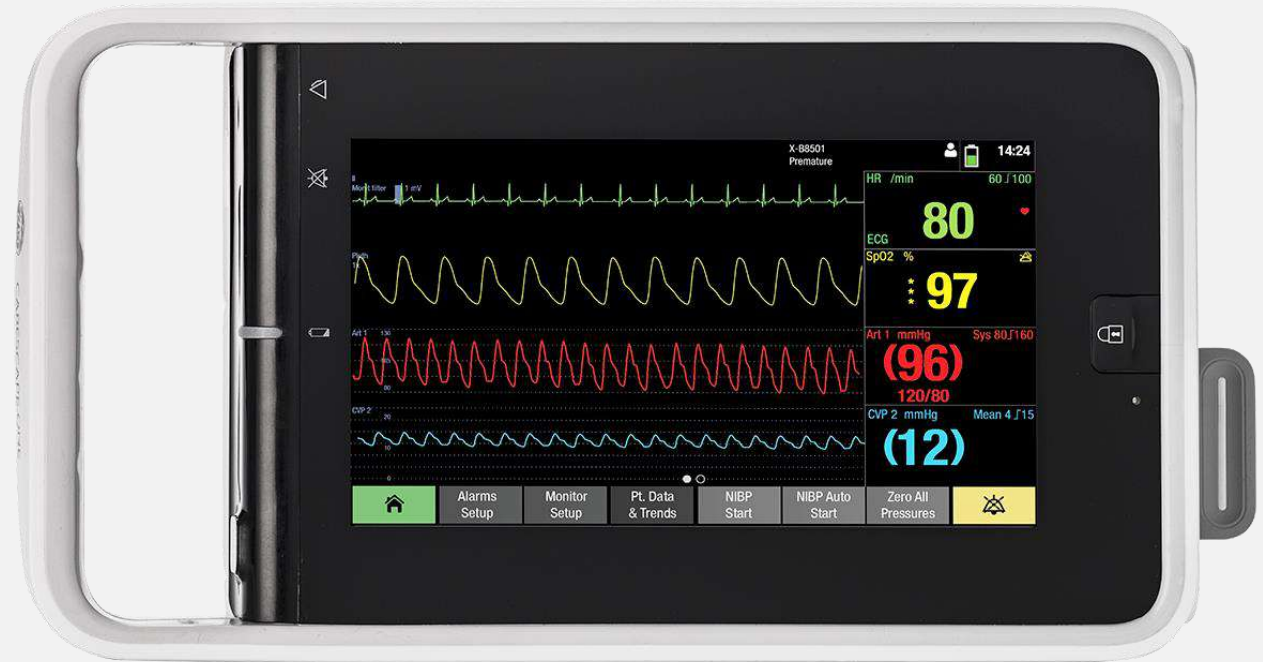


Streamlined care pathway

The intuitive design of the **CARESCAPE ONE** monitor connects therapy and recovery, so patient care becomes seamless. This helps reduce total transport time and user errors, enhancing efficiency.

60%
reduction in user errors¹

26%
reduction in transport time
(based on simulated usability study)¹



Carestation 750 Anaesthesia Delivery System

Individualized
therapy at your
fingertips



Familiar touchscreen
user experience

Small volume, low-flow
modular breathing system

Integrated gas analysis

ICU-inspired ventilation
technology



Carestation 750 Anaesthesia Delivery System

Individualized
therapy at your
fingertips



Advanced clinical tools
that help you deliver
individualized therapy

Intuitive user interface and
intelligent features for visual
guidance during a case

Ergonomic design
for seamless workflow
and ease of service



Appendix



Compact, modular breathing system



- ✓ Autoclavable to 134°C
—no tools disassembly
- ✓ Not made from natural rubber latex
- ✓ Visible rising bellows helps indicate leaks
- ✓ APL valve and manual switch facilitate move from manual to mechanical ventilation—regardless of system failure



Easy disassembly and cleaning

The compact and modular breathing system allows for quick removal without tools to simplify cleaning and maintenance.

An intuitive and easy to access absorber canister with built in EZ-Change technology facilitates rapid removal and replacement, even during ventilation. Integrated electronics detect when the absorber or breathing system is disengaged.



Compact Breathing System

We manage water, others move water

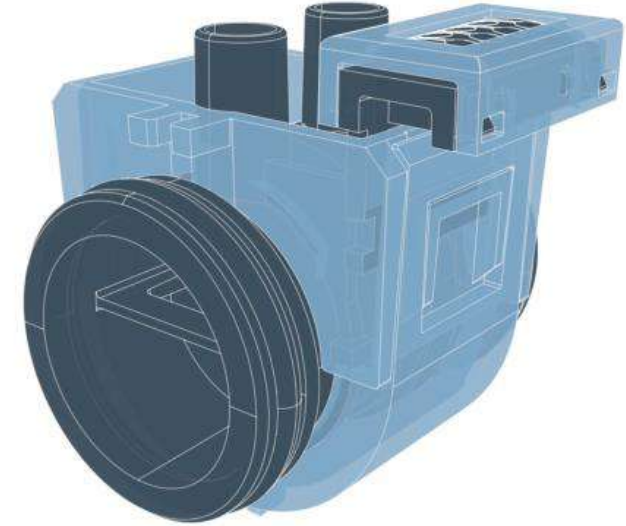
Low Flow

More moisture, CO₂ reaction and water production.



Innovative Flow Sensor design

Slopes in both directions to direct water away from sensor.



CANISTER + CONDENSER = **WATER MANAGEMENT**



INTEGRATED WORKFLOW



gehealthcare.com

Products may not be available in all markets. Carestation 750 machine is not cleared or approved by the US FDA. Not for sale in the United States. Full product technical specifications are available upon request. Contact a GE Healthcare Representative for more information. Data subject to change.

© 2020 General Electric Company – All rights reserved.

GE, the GE Monogram, Carestation and CARESCAPE are trademarks of General Electric Company.

Exclusive property of GE Healthcare. Any unauthorized reproduction or use is strictly prohibited.

Nothing in this material should be used to diagnose or treat any disease or condition. Readers must consult a healthcare professional.

JB00223XE