



Reducing reliance on human beings by standardizing and simplifying clinical processes with decision support and technology is a powerful way to increasing process reliability.1



Intuitive Navigation

15" screen with quick touch controls. Direct access to operations without menu overlap. Highly configurable screen. Simple access to specific OR tasks re-grouped in a dedicated menu.



Unified User Interface

Carestation 650 features a unified CARESCAPE user interface between ventilator and patient monitors to flatten the learning curve and awkward positions. help reduce the risk of errors.

APL and switch

Primary controls are comfortably within reach to speed up operations, help eliminate stretching and

Interactive system check

The daily checkout process is as simple and quick as it is thorough. It is interactive with traffic light step-by-step on screen guidance.

Breathing circuit cassette

by anandic

Breathing circuit that can be quickly dismantled without the use of tools. Minimal components to clean, to meet high hygienic standards.



by anandic

A clinical study shows that inadequate alarms, improvised oxygen delivery systems and misdiagnosis or treatment of breathing circuit events can contribute to severe patient injuries.²

Clinical alarm with inadequate configuration practices is the TOP. Health Technology Hazards on the 2014 annual report published by ECRI Institute.

Several death and severe patients harm may be prevented with more effective alarm management.³



GE Healthcare

Smart.

Intelligent tools to give you more confidence in your daily work.

The industry role is fundamental to help prevent device misuse. GE is committed to building innovative anaesthesia solutions that balance user interface design with intelligent tools to help clinicians prevent misuse and medical errors. The best way to demonstrate effectiveness in preventing errors is to not let them happen.

Carestation 650 offers smart tools to simplify daily work and help ensure effective reactions to non-ordinary events. When seconds count, active mechanisms can help clinicians better manage non-ordinary events.



Easy alarm management

Direct access to favourite
Primary Alarms limits. Auto
Alarm Limits software may
help reduce alarm fatigue,
allowing you to quickly review
and accept tailored CO2 and
MV/TV alarm limits real-time
within a case.



Intelligent lighting controls

Automatic lightning on all flow controls provide information on the active ones. A clear indicator on the next step to follow can help avoid incorrect maneuvers.



Clear active case notifications

Automatic patient case activation when switching from manual to automatic ventilation. Visible and clear stand-by screen notification.



ACGO protective mechanism

ACGO port has a protective lid to avoid misconnection.

By switching on the ACGO, a dedicated screen is automatically activated to visually reinforce which port is in use. This visible alert will remain until the ACGO is on.



Pause Gas flow

A workflow solution that

disconnects. One button

temporarily stops all gas

flows and suspends alarms

agent delivery and ventilation

for up to one minute allowing

you to focus on the patient.

simplifies temporary circuit

Scavenging alert

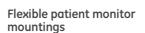
An alarm with a notification on the screen alerts the staff when scavenging gas flow is out of range.
It will help detect incorrect gas evacuation.











Multiple choices of patient monitors mounting within

Variety of customizable supports

Bars and supports for additional devices and rotating and tilting display arm accessories to keep lines and to allow optimized visualization cables tidy in place.



Workspace optimization

Great work surfaces, additional flip desk. Ample drawers. Bi-level surface illumination.



cables.



by anandic

Flexible options that grow...

Low flow. High impact.

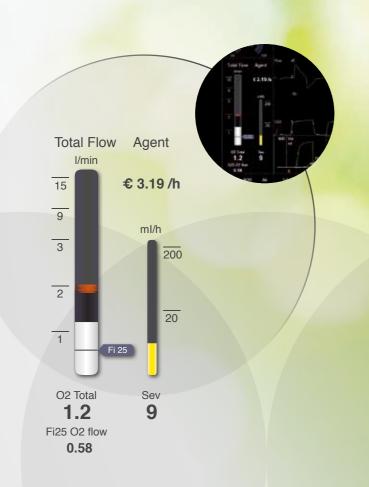
ecoFLOW

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 provides visual guidance to help you maintain the desired inspired oxygen concentration and identify unnecessarily high fresh gas flow rates.

ecoFLOW technology

A new way to look at flow tubes to help you ensure your inspired oxygen target settings are achieved.

The illustration shows flows above the Fi25 target as potential waste gas or excess to the patient's consumption. Whenever fresh gas flow exceeds the patient's requirement, gases enter the scavenging system and, ultimately, contaminate the atmosphere.



A true eco system. Economical and ecological.

Anesthetic agents are not only costly, but scientific evidence suggests that excess inhaled agents released into the atmosphere have the potential to affect the environment.⁵ Offered on the Carestation 650, ecoFLOW may have a positive impact on the environment when agent waste gases are reduced.



Patient

Helps your patient care by continuously monitoring the precise flow rates required to maintain target inspired oxygen concentrations.



Economical

Anesthetic agents are the biggest ongoing expense associated with anesthesia units. The ecoFLOW option offers cost savings through more efficient utilization of inhaled anesthetics.⁶



Ecological

By choosing a low flow practice, the environmental impact of anesthetic vapors and gases can be minimized to help reduce the impact of these greenhouse gases.

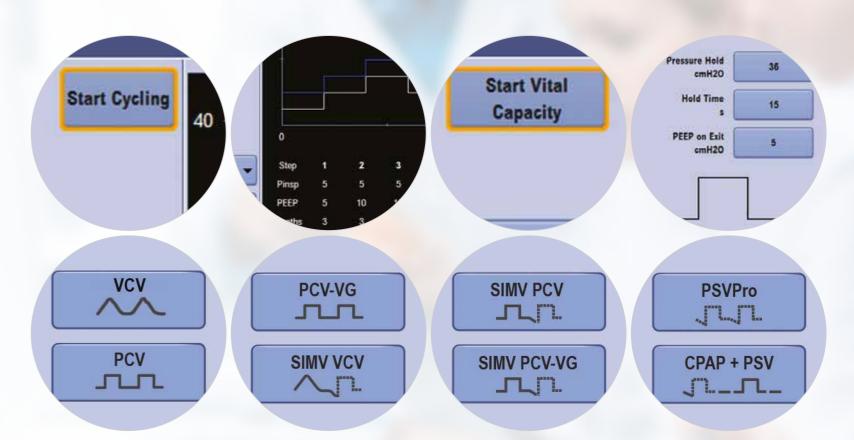
... with you as your needs change

Lung Protection

Software-enabled tools help simplify your workload. Vital Capacity and Cycling Procedures help automate repetitive tasks used during lung ventilation procedures.

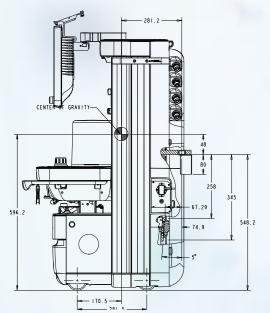
Advanced ventilation – neonate to adult

Healthcare is more complex than ever and your anesthesia system needs to adapt to suit a wide range of patients. Our electronic flow valve technology offers precise flow sensor sensitivity for volumes as low as 5 mL in PCV mode to help you deliver with confidence.

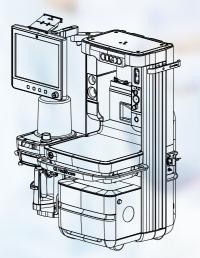


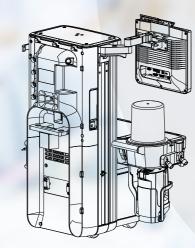
Leveraging expertise of the GE Perioperative Global Design team to anticipate future demands

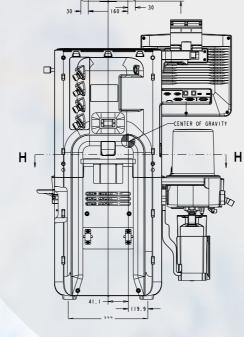
Based on input from customers, we invited the GE Global Design team to help us reimagine the anesthesia system to tackle today's challenges. They delivered on this and so much more with a design that will write the next chapter in GE's already iconic 100 year history of anesthesia innovation. Carestation 650 marries elegant and functional design with digital technologies that anticipate future user demands — instilling confidence in an uncertain and evolving healthcare environment.



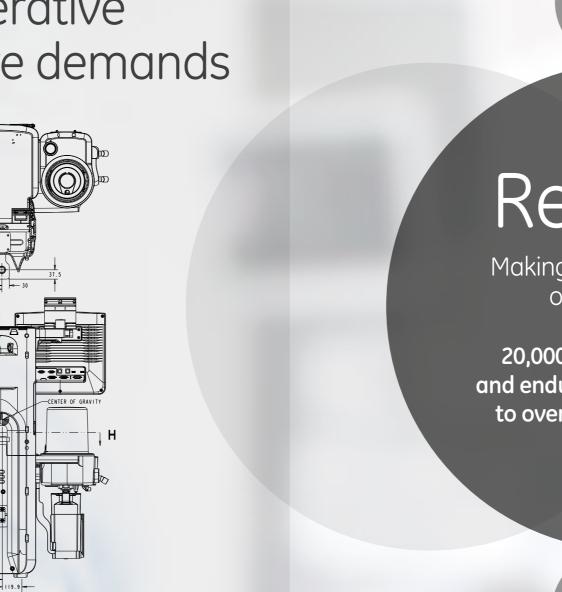












Every single detail of the Carestation 650 has been in the center of rigorous engineering actions for development and verification. This has involved systematic design rigor, reviews, and the implementation of reliability growth methods like stressing and testing software and hardware to emulate extreme operational conditions.



Making better possible for over a century.

20,000 Hours of reliability and endurance testing – equal to over 8 million simulated cases⁷.



shock testin

[6]

ndustry-leading Lean Six Sigma manufacturing



stress test





www.gehealthcare.com

GE Healthcare provides transformational medical technologies and services that are shaping a new age of patient care.

Our broad expertise in medical imaging and information technologies, medical diagnostics, patient monitoring systems, drug discovery, biopharmaceutical manufacturing technologies, performance improvement and performance solutions services help our customers to deliver better care to more people around the world at a lower cost.

In addition, we partner with healthcare leaders, striving to leverage the global policy change necessary to implement a successful shift to sustainable healthcare systems.

GE Imagination at work

- 1 Essentials of Patient Safety, European Society of Anaesthesiology (ESA 2013) http://html.esahq.org/patientsafetykit/resources/downloads/01_Basics/ Essentials-of-Patient-Safety-Ch-Vincent.
- 2 Mehta SP, Eisenkraft JB, Posner KL, Domino KB, Patient injuries from anesthesia gas delivery equipment: a closed claims update. Anesthesiology. 2013 Oct;119(4):788-95. doi: 10.1097/ALN.0b013e3182a10b5e.
- 3 ECRI report 2014.
- 4 Ronnie J. Glavin, "Best Practice & Research Clinical Anaesthesiology 2011 193-206.
- 5 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, M.D., MPH, Ph.D.) Anesth. Analg. September, 2010
- Global Warming Potential of Inhaled Anesthetics: Application to Clinical Use (authors: Susan M. Ryan, M.D., Ph.D., and Claus J. Nielsen, CSc) International Society for Anaesthetic Pharmacology July 2010 www.anesthesia-anelgesia.org
- 6 ECRI Institute Healthcare Product Comparison: Anesthesia Units. 2011.
- 7 GE internal verification and validation testing report 2015. DOC1677887.

Not approved in all markets. Not cleared or approved by the US FDA. Not for sale in the United States.

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This document applies to Carestation 650 A1 and Carestation 650c A1