



# Servo-c Ventilator

Care with confidence



# Introducing the new Servo for personalized ventilation

**It's here!** With your evolving needs for safe, high-quality ventilation and usability in mind, we're proud to introduce Geringe Servo-c, our next-generation ventilator for pediatrics and adults. Designed from the ground up to meet the needs of tomorrow and comply with the latest requirements for acuity care, it is a natural evolution of 50 years of refined and improved Servo performance.

## Born from years of Servo performance

To create this new platform, we drew upon 50 years of ventilatory experience with our well-proven Servo concept. The result is Servo-c, a versatile ICU ventilator designed for the future, with a wide range of helpful monitoring and lung-protective therapeutic tools. You can use it for both invasive or non-invasive ventilation, including High Flow therapy. No need to switch ventilators.

## Personalized care – one patient at a time

Safe and gentle personalized ventilation is enabled with tools like Servo Compass®, High Flow therapy and Open Lung Tool trends for recruitment. The wider intuitive 15" touchscreen, embedded workflows and sleek patient unit also make Servo-c easy to learn and start using.

All so you can *work with confidence* to tailor your ventilatory care.

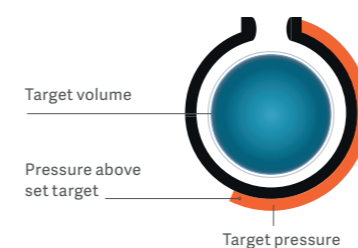
### Key benefits of Servo-c

<b>Designed for ease and convenience</b> <ul style="list-style-type: none"> <li>• Wide intuitive 15" touchscreen</li> <li>• Clear and easy-to-use interface</li> <li>• On-screen context-based guidance</li> <li>• Embedded therapeutic workflows</li> <li>• Ergonomic design</li> <li>• Compact patient unit and mobile cart</li> <li>• Hot-swappable batteries</li> <li>• Integrated Aerogen® nebulizer</li> </ul>	<b>Personalized lung protection</b> <p>Tailored lung-protective technologies with features like:</p> <ul style="list-style-type: none"> <li>• Servo Compass® to monitor pre-defined targets</li> <li>• Open Lung Tool trends for lung recruitment and PEEP titration</li> <li>• CO<sub>2</sub> monitoring</li> </ul>
<b>Gentle and effective personalized weaning</b> <p>Tailored high-performance tools to ease patients off the ventilator:</p> <ul style="list-style-type: none"> <li>• High Flow therapy for accurate flow of heated and humidified oxygen</li> <li>• Automode for automatically switching patients from controlled to supported modes, depending on patient effort</li> <li>• NIV PC and NIV PS/CPAP</li> <li>• PRVC and SIMV (PRVC)+PS</li> </ul>	<b>Cost-effective respiratory solution</b> <ul style="list-style-type: none"> <li>• You decide the level of features – configured as needed (high performance or more)</li> <li>• Easy to upgrade</li> <li>• Optimized uptime and efficiency</li> <li>• Interchangeable hardware parts</li> </ul>



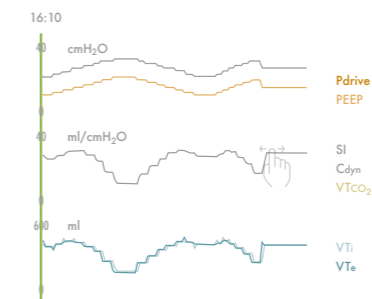
# Personalize your lung protection with every breath

Lung-protection challenges come in many shapes and sizes. That is why Servo-c offers a range of tools for non-invasive and invasive ventilation that let you personalize your treatments and guard against ventilator-induced lung injuries. Tools like CO<sub>2</sub> monitoring, Servo Compass® to help you visualize your volume and pressure targets, and Open Lung Tool trends for recruitment. All so you can **care for your patients with confidence.**



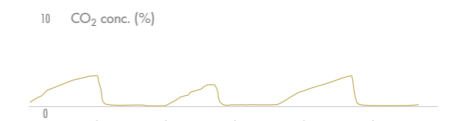
## Servo Compass® intuitive monitoring

Featuring bold and colorful graphics, this intuitive monitoring tool helps you keep an eye on measured volume and pressure in relation to set targets during invasive ventilation. At a glance and even from a distance, you can see when the total or driving pressure or tidal volume per predicted body weight (VT/PBW) are off target and intervention is needed.



## Open Lung Tool trends for lung recruitment

Open Lung Tool trends helps you assess lung mechanics and gas exchange – breath by breath, in real time and retrospectively. It provides flexibility and guidance when personalizing PEEP and driving pressure during recruitment maneuvers, prone positioning and extracorporeal life support. Stress index and carbon dioxide elimination are also incorporated.



## Fast and reliable CO<sub>2</sub> monitoring

To measure carbon dioxide levels in real time during expiration (capnography), Servo-c comes with an easy-to-use CO<sub>2</sub> monitoring option. It helps you to improve the ventilation quality and efficiency for your patients. In other words, yet another tool on Servo-c to help you personalize your treatments.

# Experience ease of use in every design detail

Providing your patients with just the right level of respiratory support can be complex. The Servo-c is designed to simplify this. From the new 15" touchscreen and intuitive user interface to the sleek ergonomic design, every detail is tailored to support your needs for safety and ease of use.

## Intuitive user interface

Servo-c provides helpful guidance for everything from pre-use check to initial parameter settings and key information throughout the treatment. The 15" wide screen, with its intuitive user interface, makes Servo-c easy to learn and use. Contextual help, dynamic images, Servo Compass®, recommendations and prompts help staff to orientate quickly and follow guidelines. The interface also simplifies knowledge sharing, making it easy to retrieve screenshots and recordings or connect to a larger screen. You can easily switch between multiple screen views to tailor your needs, from Basic or Family View to Advanced View, Distance View and Loops.

## Alarm management

When an alarm is activated, the alarm lamp lights up and can easily be seen from any viewing point. Highlights, shortcuts and on-screen checklists help you to manage each active alarm and avoid undesired notifications. Autoset of alarms is also possible.

## Designed to fit you

On the Servo-c, form follows function: Ergonomic handles, a slimmed down patient unit, and cart with small footprint, and long-lasting, hot-swappable batteries that are easy to change, even during ventilation.



When setting ventilation parameters, the Safety Scale™ tool allows you to tailor your settings quickly, intuitively and safely.

*"It's like having a textbook in the machine."*

Clinician during usability testing<sup>11</sup>

<sup>11</sup>Comparative usability study on Servo-u, which shares user interface commonalities with Servo-c.



## Human-centric design wins prestigious IF award

Creating a clear and simple user experience for safe and effective clinical care has been a hallmark of Servo ventilators for more than 50 years. Our new GUIDE design system follows this tradition by being awarded the prestigious IF Design Award. Selected from among 11,000 entries in 57 countries, the award highlights our efforts to create a thoughtful, safe and calm user experience, thus allowing users to focus less on devices and more on their patients.

### Scandinavian design philosophy

Based on our human-centric Scandinavian design philosophy, the new system places clinicians and patients at the center of attention. Clean shapes, lasting materials and bold graphics create a recognizable intuitive feeling across software and hardware. First introduced in the new Servo-c ventilator, it will gradually be implemented on all Getinge point of care devices. With its similar feel and consistent behavior, the system makes it easier for clinicians to learn and use multiple devices.

### Efficient machine-human interface

Large buttons and distinct controls, together with helpful animations, add to the user-friendly feeling. A minimal use of outlines creates a light and calm feeling. By grouping buttons, controls and curves in a subconsciously logical way, we are able to create an efficient human-machine interface giving an intuitive user experience. Simply put, working with our GUIDE system should be second nature, where the user is alerted to anything that requires attention. In short, fewer surprises and compromises.



High Flow therapy provides an accurate flow of heated and humidified oxygen.

## Avoid interruptions with safe and seamless transitions

Minimizing interruptions along your patient's journey toward spontaneous breathing is always a priority. From invasive to non-invasive ventilation and High Flow therapy to weaning, you want a smooth workflow to get the best outcomes. Servo-c lets you do just that – in one ventilator.

### Avoid switching ventilators

It can be time consuming to switch ventilators or have to go to Standby mode when changing therapies. Designed for non-invasive and invasive therapy, Servo-c lets you provide uninterrupted respiratory support, without having to switch ventilators.

### High Flow therapy

High Flow therapy is beneficial for patients who are spontaneously breathing but have an increased work of breathing. It gives your patient an precise flow of heated and humidified oxygen. High Flow therapy can be selected in in both invasive and non-invasive ventilation as well as in Standby. The intuitive on-screen workflow guides your implementation and there's no need to switch to a separate high flow therapy system. Nebulization is also possible during High Flow therapy.

### Long-lasting power

Power outages may present a challenge for hospitals. Such situations can be partly mitigated by Servo-c, which features two hot-swappable batteries, offering a total of three hours of power. The batteries charge automatically when the ventilator is plugged in and tell you exactly what exact time of battery power is remaining.



Two hot-swappable batteries with a total of three hours of run time.



## Easing transitions and nebulization for personalized weaning

Servo-c offers a range of tailored tools to help stabilize your patient and gently ease them off the ventilator. Throughout the patient journey, Automode can help the patients transition between controlled and supported modes depending on their work of breathing. And with High Flow therapy, integrated nebulization and other tools you can ease them off the ventilator at just the right pace – safely and efficiently.

**Automode eases transitions**  
Automode helps your patients transition to spontaneous breathing, potentially reducing the need for manual interaction. Starting with controlled ventilation, it switches to supported ventilation, depending on patient effort.

**Built-in Aerogen® nebulizer**  
Servo-c comes with an integrated Aerogen® nebulizer. Convenient and easy to use, it can be applied in both invasive and non-invasive modes of ventilation as well as during High Flow therapy.



# Reduce lifecycle costs with a more sustainable solution

The Servo-c is designed for safe, easy and efficient use, but also with an eye to sustainable thinking. This as much about delivering lasting quality as it is about doing more with less. Like using just a few, easy-to-clean and interchangeable parts. And offering preventive service agreements that maximize your investment.

## Efficiency through interchangeability

The Servo-c shares many of the same high-quality parts and essential components as other Servo ventilators, such as interchangeable expiratory cassettes. Not only does this streamline fleet operations, it can add efficiency and may help to drive down maintenance costs.

## Protect your investment with Getinge Care

A Getinge Care service agreement maximizes the long-term value of your investment. Our four levels of service packages are designed with your hospital's success in mind – all to ensure that your Getinge equipment delivers peak performance at all times.

## Maximizing your uptime

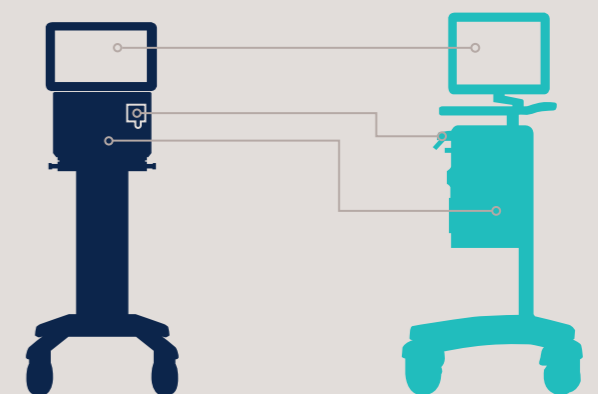
By following the routine preventive maintenance schedule recommended in Getinge Care, you are guaranteed to stay up and running smoothly. If something should need urgent attention, our certified field service representatives will be there to provide advice and deliver original parts, maximizing the lifespan of your equipment.

Backed by these additional services, Servo-c is prepared to help you care for your patients with confidence.

## Similar look, feel and serviceability across your ventilation fleet

The Servo-c and the advanced Servo-u® have similar user-friendly interfaces. They also share many components, have the same interchangeable patient cassettes and come with the same easy-access service structure.

Ultimately, our aim is to keep you up and running at all times and bring you peace of mind.



Servo-c is available for adult and pediatric patient categories.

# Overview of Servo-c technical specifications

## Therapies and tools

High Flow therapy
Open Lung Tool trends
Stress Index
Servo Compass
CO <sub>2</sub> monitoring

## Ventilation modes

Invasive ventilation	Automode
	Bi-Vent APRV
	PC
	PRVC
	PS/CPAP
	SIMV
Non-invasive ventilation	VC
	VS
	Nasal CPAP
	NIV PC
	NIV PS

Note: Not all modes are available in the standard configuration. Please contact your Getinge representative for information on standard and optional modes.

## Invasive ventilation

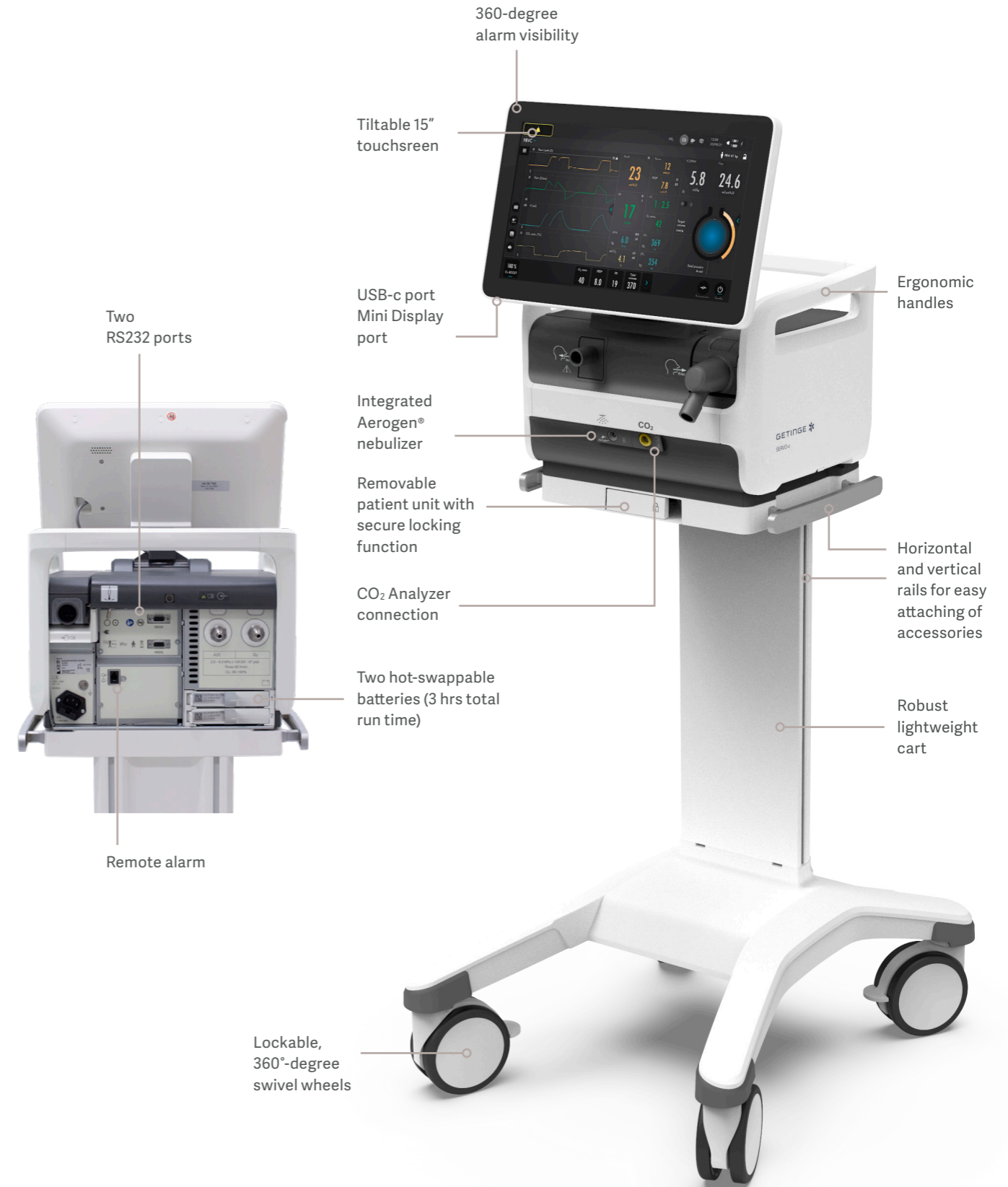
Inspiratory tidal volume	
Adult	100-4000 ml
Pediatric	10-350 ml
Inspiratory flow	0-200 l/min
PEEP	0-50 cmH <sub>2</sub> O
Pressure above PEEP	
Adult	0-120 cmH <sub>2</sub> O
Pediatric	0-80 cmH <sub>2</sub> O

## Non-invasive ventilation

PEEP	2-20 cmH <sub>2</sub> O
Pressure above PEEP	0-60 cmH <sub>2</sub> O
Leakage compensation	
Adult	Inspiratory up to 200 l/min Expiratory up to 65 l/min
Pediatric	Inspiratory up to 33 l/min Expiratory up to 55 l/min Nasal CPAP up to 20 l/min

## Miscellaneous information

Screen	
Screen type	TFT LCD touchscreen
Viewing area	15,6" Full HD, 24 bit color extra wide angle
Touch glass coating	Anti reflective, Anti finger print
Dimensions patient unit	W 375 x D 350 x H 489 mm Height including user interface
Weight	17 kg, 32 kg with cart
Battery	Lithium-ion, 1,5h standard, 3h optional. Hot swappable
Nebulization	Aerogen, integrated
CO <sub>2</sub> Analyzer	Capnostat V
External device interfaces	2x RS232, Ethernet, Remote alarm, USB-c and mini display port
Trends	Are updated every 60 seconds, logged and stored in a library for up to 72 hours.







Getinge is a global provider of innovative solutions for operating rooms, intensive care units, sterilization departments and for life science companies and institutions. Based on our firsthand experience and close partnerships with clinical experts, healthcare professionals and medtech specialists, we are improving the everyday life for people, today and tomorrow.

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