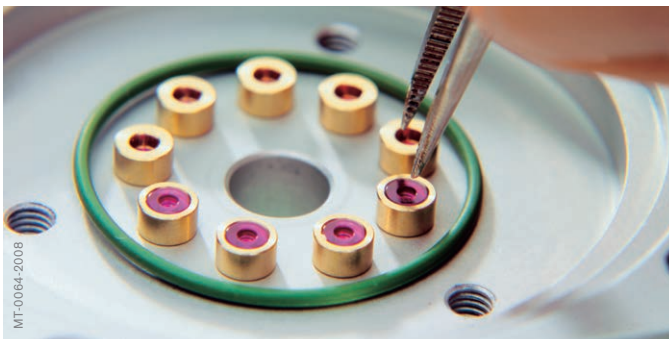




**Clinical advancement, ease of use,
versatility, – in and out of the ICU**

SAVINA

Savina - and your patients are in good hands



Even when faced with the most clinically challenging environments – including isolated rural or earthquake-endangered* areas – you can depend upon the Savina not to fail you. It combines excellent ventilation performance, quality, versatility and ease of use.

Excellent, flexible ventilation performance

- Our open breathing system enables spontaneous breathing at any time and any pressure level in all ventilation modes during ventilation cycles
- Internal turbine that eliminates the need for air cylinders or external compressor
- Internal battery to bridge periods of power failure and to support mobility
- Full range of ventilation modes to accommodate different patient populations and acuity levels

* In case of power and/or gas failure

Excellent quality with an integral safety concept

- Savina integrates the experience gained over decades of development work in modern intensive care ventilation
- Nine rubies enable highly precise, enduring O₂ dosage – one example of our high quality
- Three independent, invisible “body-guards” always on duty to improve patient safety
- Three backup twin sensors on duty for:
 - FiO₂
 - airway pressure
 - minute volume

Designed for ease of use

- Direct access to essential ventilation settings
- Intuitive operating concept for minimized training time
- Bright, high-resolution color screen for excellent visibility – even from a distance
- Ergonomic and sleek design that nicely blends into the clinical environment



Your patient will feel the difference

Prevent

Stabilize

Wean



Minimize patient risk

Savina offers advantages that help protect patients every time ventilation support is needed:

- Comprehensive NIV – available in all modes, with intelligent monitoring and alarms adaptation. With certain diagnoses, NIV has been shown to reduce the need for intubation, decrease the hospital length of stay and reduce the number of complications.^{1) 2)}
- The open breathing system allows the patient to breathe spontaneously at any time and pressure level – in any ventilation mode during ventilation cycles.

Easily adapt to changing needs

Savina provides the flexibility to easily adapt ventilation therapy to individual patient situations:

- The open breathing system with BIPAP/PCV+ enables a smooth transition to the weaning phase. Weaning starts right when your patient is ready.³⁾
- AutoFlow® brings “open breathing” to all volume controlled modes. The natural flow pattern and spontaneous breathing contributes to better gas exchange and secretion clearance.⁴⁾
- Seamless ventilation from bedside to transport for the most critically ill patients. This enables maintaining the same level of ventilation support in every situation.

Support effective weaning

Savina supports getting patients off the ventilator, safely and quickly:

- Savina’s amazingly fast response to the patient’s flow demand as well as the highly sensitive patient trigger reduce the work of breathing.
- Advanced leakage compensation provides adapted responsiveness and reliable triggering even in the presence of high leakages such as during NIV.

“Compact, ergonomic design, vast choice of ventilation modes, easy for operating and instructing the staff – all these features make Savina a reliable partner in ICU.”

Boris I. Karavaev, MD, PhD., Department of Intensive Care, National Research Centre for Surgery named by academician B.V. Petrvsky, Russian Academy of Medical Science, Moscow, Russia, January 2008.

¹⁾ Ram FSF et al, The Cochrane Library 2005, Issue 4

²⁾ Collard HR, Saint S, Pention of Ventilator-Associated Pneumonia; Evidence Report/Technology Assessment 43; 191

³⁾ Biphasic Positive Airway Pressure (BIPAP) - eine neue Form der augmentierenden Beatmung Autoren: M. Baum, H. Benzer, Ch. Putensen, W. Koller, G. Putz.; (1989) Anaesthesist 38: 452 - 458.

⁴⁾ Medicine & Technology Today 2/96, Interview with Dr. Rolf Buhl, Clinical Indications for the Introduction of the Auto-Flow Function in Evita 4 Ventilation.



Noninvasive Ventilation

Invasive Ventilation



Enhance recovery and long-term ventilation

Savina supports recovery and comfortable long-term ventilation:

- Savina combines invasive and noninvasive ventilation. Studies have shown that non-invasive ventilation helps to avoid reintubation and enhance recovery times. ^{(5), (6)}
- Responding to individual patient needs and supporting mobility, Savina makes a comfortable companion for patients in long-term facilities.
- The LPO – Low Pressure Oxygen option enables O₂ delivery independent from any central gas supply.

When you buy Savina you will get a ventilator which offers all you need for your ventilated ICU patients. One of the great things Savina has is the mask ventilation. It is very impressive to see how satisfied our patients are.

Dra. Cécica L. Irrazabal, Hospital de Clínicas, Buenos Aires, Argentina, January 2008

⁵⁾ Am J Respir Crit Care Med Vol. 171.pp 388-416, 2005

⁶⁾ Ferrer M; Am J Respir Crit Care Med Vol 168. pp 1438 -1444, 2003

Over 100 years of innovation in ventilation



MT-0016-2008

Dräger is committed to providing Technology for Life®. We were there at the very beginning of modern ventilation, and we've been innovating ever since:

- 1907** – Pulmotor emergency resuscitator
- 1952** – “E 52 Iron Lung” long-term breathing system
- 1978** – Oxylog transportable emergency ventilator
- 1989** – BIPAP¹⁾ /PCV+ and APRV free breathing in PCV

- 1995** – AutoFlow® free breathing in VCV
- 1995** – Operating concept with touch screen and rotary knob
- 1997** – ATC™ automatic tube compensation
- 2000** – Non-Invasive Ventilation (NIV) for ICU ventilators
- 2003** – SmartCare®/PS automated knowledge-based weaning tool
- 2004** – Disposable expiration valve

¹⁾ Trademark used under licenses

Our reputation for quality and reliability is built on sound German engineering – but this is only part of Dräger's commitment to ongoing support:

- Clinical education and training that maximizes equipment utilization
- DrägerService® including remote diagnostics help to maximize uptime and minimize lifetime operating costs
- Continuous equipment development to protect your investment

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