



**PHILIPS**

Hospital  
respiratory care

# **Advanced** invasive and noninvasive ventilation

Philips Respironics V680 ventilator\*

\* The V680 ventilator is pending 510(k) and not available for sale in the USA.

# Integrated ventilation

without compromise

You no longer need to switch devices when it's time for NIV treatment. Our V680 ventilator delivers our best-in-class NIV performance with the ICU features and modes you need.



Now you can rely on a single ventilator to meet the changing therapeutic needs of a broad range of adult and pediatric patients.

Our V680 ventilator is the first to combine our best-in-class, single-limb NIV solution with a fully featured, dual-limb system designed to deliver advanced life support for critically ill patients in your ICU.

It is fast and easy to switch from invasive to noninvasive ventilation. The V680 ventilator provides continuous measurements of dynamic resistance, compliance, elastance, and plateau pressure in both single and dual-limb invasive and noninvasive modes.

Discover Philips Respironics V680, the simple, clinically advanced way to provide your patients with high-performance ventilation across the continuum of care.

## A balanced approach to ventilation

Many ICU ventilator manufacturers focus on developing invasive, life-supporting applications first. That could be in part because creating NIV systems is categorically more challenging due to the nature of dynamically changing leaks around the mask. With the V680, advanced NIV technology is a primary focus that is weighted equally with our invasive solutions. The result is a system that unites the proven performance of our V60 noninvasive ventilator with an invasive ventilator designed specifically for critically ill ICU patients. You get the breath delivery and active exhalation you would expect from a critical care ventilator – without the inconvenience of switching between two machines.

# Innovations

## in ventilation, ease of use and comfort

Designed to help you provide exceptional ventilated care

The V680 ventilator includes a number of advanced technologies designed to simplify use, support uninterrupted invasive or noninvasive ventilation, and help reduce the incidence of unwanted pressure spikes.

Unlike other systems that stop ventilating during expiratory limb occlusion or flow sensor failure, the V680 switches to Emergency Ventilation Mode, and sounds a high-priority alarm. In this mode, the same oxygen and ventilation settings are maintained through the inspiratory limb, buying critical seconds or minutes for the patient until help arrives.

To make it easy for you to hear high-priority alarms, the volume automatically escalates if there is no response within 40 seconds. During Emergency Ventilation Mode, the alarm sounds at maximum volume.

An active exhalation valve also helps reduce sudden spikes associated with patients who fight the ventilator or cough.

### **Built-in backup**

The V680 provides apnea backup ventilation for both invasive and noninvasive spontaneous modes. And the system's integrated, four-hour backup battery supports uninterrupted care during power failures and intra-hospital patient transport.

### **Fast to learn, easy to use**

Our V680 ventilator has the same look, feel, and simple user interface as our gold standard V60 ventilator. So if you're already familiar with the V60, you'll quickly master the V680. Even first-timers tell us it's fast to learn and easy to use, right from the start.

Since all modes share a common interface and consistent operation, there's no need to learn a new set of commands as you transition between invasive and noninvasive ventilation. Not only does this minimize staff training, it may help reduce errors and makes it simple to switch back and forth.

### **More comfortable for your patients**

The V680 is also easy on your patients. In a recent study, Philips AutoTrak NIV technology was shown to deliver the highest level of ventilator synchrony,<sup>1</sup> a quality directly linked to improved patient comfort.

Interface compliance is also a significant factor in successful noninvasive ventilation. Philips Respironics offers a wide range of masks to fit your adult and pediatric patients.



## Adapts to your patient

The V680 uses Auto-Trak technology to automatically adapt to your patient's breathing pattern and deliver a high level of synchrony during noninvasive therapy. A smart algorithm allows auto-adaptive leak compensation, inspiratory triggering, and expiratory cycling to deliver synchrony in the face of dynamic leak and changing patient demand.

**A four-hour standard, integral battery provides backup for prolonged power outages and allows seamless transitions during intra-hospital transport.**

## Stay connected

The V680 includes integrated patient monitoring and real-time alerts to keep you connected to your patients, so you can respond to their changing clinical conditions. The V680 works with Open Interface to support VueLink and IntelliBridge EC10 connectivity, giving you a direct pathway to your central station monitors and your hospital's EMR/EHR system.

# Our new standard in integrated ventilation

## High performance without the high cost

With the V680, one ventilator does it all, providing high performance ventilation in invasive and noninvasive modes at a fraction of the cost of two separate systems, lowering your capital expenses.

This advanced two-in-one platform includes a full complement of invasive and noninvasive modes, lung mechanics maneuvers, and comprehensive dynamic patient monitoring. Advances like these help improve workflow and streamline care delivery to make the most of your staff resources and lower costs.

### **Accelerate workflow, enhance patient care**

The V680 bridges the gap between dedicated NIV and critical care life support. Our advanced ICU ventilator also offers our best-in-class NIV performance for your acute or sub-acute noninvasive ventilation needs. You can quickly switch from IV to NIV modes to streamline workflow – with confidence.

### **Easy to maintain**

The V680 is designed to be reliable and easy to maintain, helping to accelerate patient throughput and lower the total cost of ownership. Ventilator turnaround time between patients is less than three minutes, thanks to semi-automated, pre-use checks.

General maintenance can be performed in the hospital by your biomedical staff. A comprehensive, on-screen diagnostics menu accelerates both troubleshooting and routine service.

The V680 uses standard, low-cost, single-limb and dual limb circuits, and there is no need for costly proprietary flow sensors.

Automatic software updates\* keep your ventilators up and running, so you're always working with the latest technology. And since most of the replacement parts are common to the V60 ventilator, they're readily available worldwide, reducing your need to inventory additional spare parts. You'll have access to the parts you need, when you need them.

\* Not available in all countries.

## Make a smart choice

The V680 is a smart choice for any healthcare organization looking to reduce capital expense while delivering quality patient care. And it's an easy choice for those who already use the V60 noninvasive ventilator. Find out why this breakthrough two-in-one ventilator should be your choice.



To facilitate easy access to nebulization, our V680 ventilator offers an Aerogen® USB controller as an optional accessory.

- Connects directly to your V680 ventilator's USB port to allow convenient positioning of the ventilator, regardless of electrical outlet placement
- Decreases cumbersome cabling
- Easy to use, with controls directly on the controller cable
- Operates with the Aerogen Pro, Solo, and NIVO generators

1. Carteaux C, Lyazidi A, Cordoba-Izquierdo A, Vignaux L, Jolliet P, Thille AW, Richard J, Brochard L. Patient-ventilator asynchrony during noninvasive ventilation: A bench and clinical study. Chest. 2012;142(2):367-376.

Aerogen and Aerogen USB Controller, Aerogen Solo and Aerogen Pro are registered trademarks of Aerogen Ltd. © Aerogen 2015

© 2015 Koninklijke Philips N.V. All rights are reserved.

Philips Healthcare reserves the right to make changes in specifications and/or to discontinue any product at any time without notice or obligation and will not be liable for any consequences resulting from the use of this publication.



Please visit [www.philips.com/V680](http://www.philips.com/V680)

Printed in The Netherlands.  
4522 991 09541 \* MAY 2015