



The **Philips Respironics V680** is a critical care ventilator that combined a single-limb NIV with a fully featured dual-limb system to deliver life support for critically ill patients in the ICU. The Respironics V680 can easily and quickly switch from invasive to noninvasive ventilation. This Philips ventilator provides continuous measurements of dynamic resistance, compliance, elastance, and plateau pressure in both single and dual-limb invasive and noninvasive modes.

## Features

- Combines the proven performance of the Philips V60 noninvasive ventilator with an invasive ventilator for ICU patients.
- Same look and feel as the Respironics V60 Ventilator.
- Built-in apnea backup for both invasive and non-invasive spontaneous modes.
- 4 hour battery backup.
- Uses Auto-Trak technology to automatically adapt to your patient's breathing pattern.
- Supports adult and pediatric patients.



## Specifications

### Dimensions

**Height:** 13.5" (34.2 cm)  
**Width:** 18" (45.7 cm)  
**Depth:** 17.1" (43.4 cm)  
**Weight:** 27 lbs (12.3 kg)

### Pneumatics

**High-pressure oxygen supply:** 2.76 to 6.00 bar / 276 to 600 kPa / 40 to 87 psig  
**Flow:** 175 SLPM  
**Air Supply:** Integrated centrifugal-flow compressor  
**Exhalation cartridge (eSYS)**  
Flow sensor: Exhaled gas flow accuracy: +/- (0.1 SLPM + 5% of reading)  
Diaphragm/seat area: 6.6 cm<sup>2</sup>  
Diaphragm/seat diameter: 29 mm

### Oxygen Sensor

**Accuracy:** +/-5% (calibrated)  
**T90 Response:** 50 sec for VT = 50 mL; 21 sec for VT = 1,000 mL

### Modes

CPAP (Continuous Positive Airway Pressure)  
S/T (Spontaneous with Timed Backup)  
PCV (Pressure Control Ventilation)  
Apnea mode (available in CPAP)  
\*AVAPS+ (Average Volume Assured Pressure Support)  
\*PPV (Proportional Pressure Ventilation)  
A/C-VCV (Assist/Control-Volume Control Ventilation)  
A/C-PCV (Assist/Control-Pressure Control Ventilation)  
SIMV-VCV (Synchronized Intermittent Mandatory Ventilation Volume Control Ventilation)  
SIMV-PCV (Synchronized Intermittent Mandatory Ventilation Pressure Control Ventilation)  
PSV (Pressure Support Ventilation)  
PRVC (Pressure Regulated Volume Control)  
Apnea mode (available in SIMV and PSV)

### Waveforms Window

**Pressure Waveform:** 0 to 70 cmH<sub>2</sub>O  
**Flow Waveform:** -240 to 240 L/min BTPS  
**Volume Waveform:** 0 to 3,500 mL BTPS  
**F/V (flow/volume) Loop**  
Flow: +/-10 to +/-240 L/min  
Volume: 50 to 3,500 mL  
**P/V (pressure/volume) Loop**  
Pressure: Above zero: 10 to 80 cmH<sub>2</sub>O; Below zero: 0 to -15 cmH<sub>2</sub>O  
Volume: 50 to 3,500 mL

