

# PHILIPS RESPIRONICS TRILOGY EV300



## ABOUT

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The **Philips Respironics Trilogy EV300** is a portable ventilator that can provide both non-invasive (NIV) and invasive(IV) forms of ventilation for the patient. The Trilogy EV300 is designed for easy operation with an 8-inch touchscreen display, per-configured settings, and an easy-to-navigate menu. The Ventilation system was designed to provide adjustable ventilation therapy for patients, making it customizable for the needs of each patient. With a 15-hour battery life, the ventilator can easily be transported with the patient through the various departments of your facility. The Philips Ventilator system can provide monitoring for preset modes such as AVAPS-AU, SpO2, and EtCO2. The adaptability and flexibility of the Philips System make it easy to be used on a wide range of patients ranging from infants to adults.



## FEATURES

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- Portable design makes it easy to maneuver
- Easy-to-use operation with pre-configured settings and intuitive menu navigation
- 8-inch touchscreen display
- Adjustable respiratory monitoring to optimize the patient's therapy
- Individual ventilation modes that fit each patient's needs
- Offers 15 hours of battery life with both an internal and detachable battery



# SPECIFICATIONS



## DIMENSIONS

### With Oxygen Blender

- **Height:** 9.65 in (24.5 cm)
- **Width:** 11.25 in (28.6 cm)
- **Depth:** 7.6 in (19.3 cm)
- **Weight:** 13.8 lb (6.3 kg) with detachable battery

## PHYSICAL

**Screen dimensions:** 8 in (20.32 cm)

**Ingress protection: IP22:** Protection against finger-sized objects and protected against dripping water when tilted up to 15 degrees.

## VENTILATION MODES

- A/C-PC: Assist control (pressure control)
- A/C-VC: Assist control (volume control)
- CPAP: Continuous positive airway pressure
- PSV: Pressure support ventilation
- S/T: Spontaneous/timed ventilation
- SIMV-PC: Synchronized intermittent mandatory ventilation (pressure control)
- SIMV-VC: Synchronized intermittent mandatory ventilation (volume control)
- AVAPS-AE

## OXYGEN

- Low flow:** 0 to 30 l/min; maximum 10 psi
- High pressure:** 280 to 600 kPa (41 to 87 psi)

## MEASURED AND DISPLAYED

### PATIENT PARAMETERS

- Tidal volume (V<sub>ti</sub> or V<sub>te</sub>):** 0 to 2000 ml
- Minute ventilation (MinVent):** 0 to 30 l/min
- Leak:** 0 to 200 l/min
- Respiratory rate (RR):** 0 to 90 BPM
- Peak inspiratory flow (PIF):** 0 to 200 l/min
- Peak inspiratory pressure (PIP):** 0 to 90 cmH<sub>2</sub>O
- Mean airway pressure:** 0 to 90 cmH<sub>2</sub>O
- Percentage spontaneous triggered breaths (%Spont Trig):** 0 to 100%
- I:E Ratio:** 9.9:1 to 1:9.9
- Dynamic Compliance (Dyn C):** 1 to 100 ml/cmH<sub>2</sub>O
- Dynamic Resistance (Dyn R):** 5 to 200 cmH<sub>2</sub>O/l/sec
- Dynamic Plateau Pressure (Dyn Pplat):** 0 to 90 cmH<sub>2</sub>O
- Auto-PEEP:** 0 to 20 cmH<sub>2</sub>O
- FiO<sub>2</sub> with FiO<sub>2</sub> Sensor:** 21% to 100%
- SpO<sub>2</sub> with Pulse Oximeter Accessory:** 0 to 100%
- Pulse Rate with Pulse Oximeter Accessory:** 18 to 321 beats per minute
- EtCO<sub>2</sub> with CO<sub>2</sub> Accessory:** 0 to 150 mmHg

## ELECTRICAL

- AC input voltage:** 100V – 240V, 50/60 Hz, 1.7 – 0.6A
- DC input voltage:** 12/24V 6.5A
- Internal and detachable Li-ion batteries:** 15 hours nominal total run time per method in IEC 80601-2-72 (7.5 hours each battery)
- Charge time for detachable and internal battery from 0% to 80%:** 2.5 hours from 0% to 100%: 3.5 hours

# SPECIFICATIONS



## LOW FREQUENCY (50-60 HZ) LEAKAGE CURRENT

**Enclosure source current, ground open:** < 300  $\mu$ A

**Source current, patient leads, all outputs**

- Normal polarity, intact ground: < 10  $\mu$ A
- Normal polarity, ground open: < 50  $\mu$ A
- Reverse polarity, ground open: < 50  $\mu$ A

**Sink current at high line, all inputs:** < 50 $\mu$ A

## HIGH FREQUENCY (RF) LEAKAGE CURRENT

**Bipolar RF leakage current:** < 59.2 mA rms

**Monopolar RF leakage current (additional tolerance):** < 150 mA rms

**CEM output modes:** < 150 mA rms at  $\approx$  50 W

## REM CONTACT QUALITY MONITOR

**Measurement Frequency:** 80 kHz  $\pm$  10 kHz

**Measurement Current:** < 10  $\mu$ A

**Acceptable Resistance Range**

- REM resistance measurements are  $\pm$  10% during RF activation and  $\pm$  5% when RF output is not activated.
- REM patient return electrode: 5 to 135 ohms or up to a 40% increase in the initial measured contact resistance (whichever is less)
- Patient return electrode without the REM safety feature (single section electrode): 0 to 20 ohms
- If the measured resistance is outside the acceptable range(s) noted above, a REM fault condition occurs.

## INTERNAL MEMORY

Nonvolatile, battery-backed RAM

- Battery Type: 3v Lithium Button Cell
- Battery Life: 5 Years

**Storage Capacity**

- One configuration, including three power settings and three mode settings.
- The last twenty error codes detected by the generator.
- The number of times and length of activation for each mode.
- The average power setting used for each mode.
- The total time the generator is on.
- Other service-related information.

## SERIAL PORT

RS-232 compatible; 9600 baud, 8 data bits, 1 stop bit, no parity

The 9-pin connector supports the following signals

- Pin 2 – isolated transmit (serial data output transmit line)
- Pin 3 – isolated receive (serial data input receive line)
- Pin 5 – isolated ground (reference for transmit and receive)

## RF ACTIVATION PORT

The RF activation port is subminiature telephone jack attached to the contacts of a small relay. The contacts are closed when the output is energized and open at all other times. This port provides means to tell other equipment that RF current is being generated. This is useful when making EEG or ECG measurements.