



The **Philips Respironics Esprit** is designed to effectively deliver both invasive and noninvasive ventilation. The Respironics Esprit is a fully integrated ventilator and has specific alarms, making it easy to operate. It's intended for use by qualified medical personnel to provide continuous or intermittent ventilatory support for adult, pediatric, and neonatal patients as prescribed by a physician.

## Features

- Can be operated by AC power, a battery pack, or an external battery.
- Invasive and noninvasive modes.
- Compressor-based ventilator.
- Infrared touchscreen.
- 100 cmH<sub>2</sub>O pressure capability and 200 liter per minute flow.



## Specifications

**Dimensions (Ventilator)**

**Height:** 16" (40 cm)  
**Width:** 14" (36 cm)  
**Depth:** 24" (61 cm)  
**Weight:** 66 lbs (30 kg)

**Breath Types**

**Volume Controlled Ventilation:** VCV  
**Pressure Controlled Ventilation:** PCV  
**Non-Invasive Positive Pressure Ventilation:** NPPV  
**Apnea Ventilation**

**Modes**

**Assist/Control (A/C):** VCV, PCV  
**SIMV:** VCV, PCV  
**CPAP:** VCV, PCV  
**Spont/T:** NPPV  
**Spont:** NPPV

**Volume Controls**

**Respiratory Rate:** 1 to 80 bpm  
**Tidal Volume:** 50 to 2500 ml  
**Peak Inhalation Flow:** 3 to 140 lpm (compliance compensated, actual to 200 lpm)  
**PEEP:** 0 to 35 cmH2O  
**PSV Pressure:** 0 to 35 cmH2O  
**Inhalation Trigger:** Pressure Sensitivity: -20 to -0.1 cmH2O (hPa) (Resolution is 0.1 cmH2O (hPa); Flow Sensitivity: 0.5 to 20 lpm (Resolution is 0.1 lpm)  
**Exhalation Trigger:** 10 to 45% of inspiratory peak flow  
**Rise Time:** 0.1 to 0.9 seconds (Resolution is 0.1 second)  
**%O2:** 21% to 100%  
**Insp. Hold:** 0 to 2.0 seconds (Resolution is 0.1 second)  
**Flow Waveform:** Descending ramp, square  
**Patient Type:** Adult/Pediatric  
**Apnea Rate:** 1-80 bpm

**Pressure Controls**

**Respiratory Rate:** 1 to 80 bpm  
**PCV Pressure:** 5 to 100 cmH2O (hPa) Relative to PEEP)  
**Inhalation Time:** 0.1 to 9.9 seconds (Resolution is 1 second)  
**PEEP:** 0 to 35 cmH2O  
**PSV Pressure:** 0 to 100 cmH2O (Relative to PEEP)



## Specifications Continued

**Pressure Controls Continued**

**Inhalation Trigger:** Pressure Sensitivity: -20 to -0.1 cmH<sub>2</sub>O (hPa) (Resolution is 0.1 cmH<sub>2</sub>O (hPa); Flow Sensitivity: 0.5 to 20 lpm (Resolution is 0.1 lpm)

**Exhalation Trigger:** 10 to 45% of inspiratory peak flow

**Rise Time:** 0.1 to 0.9 seconds (Resolution is 0.1 second)

**%O<sub>2</sub>:** 21% to 100%

**Patient Type:** Adult/Pediatric

**Apnea Rate:** 1-80 bpm

**Non-Invasive Controls**

**Respiratory Rate:** 1 to 80 bpm

**EPAP:** 2 to 25 cmH<sub>2</sub>O (hPa)

**IPAP:** 2 to 25 cmH<sub>2</sub>O (hPa)

**Inhalation Time:** 0.1 to 9.9 seconds (Resolution is 0.1 second)

**Rise Time:** 0.1 to 9.9 seconds (Resolution is 0.1 second)

**Inhalation Trigger:** Flow Sensitivity: 0.5 to 20 lpm from base flow of 3 lpm above sensitivity (Resolution is 0.1 lpm)

**Exhalation Trigger:** 10 to 45% of inspiratory peak flow

**%O<sub>2</sub>:** 21% to 100%

**Patient Type:** Adult/Pediatric

**Apnea Rate:** 1-80 bpm

### Interface Ports

Parallel Printer Port - Future

RS-232 output and input

Analog Output 0 to 5 VDC full-scale - future

Remote Alarm Nurse Call and Remove Alarm Annunciation

