Philips Respironics Esprit Ventilator

The **Philips Respironics Esprit** is a ventilator that offers both non-invasive and invasive means of ventilation for patients. The Ventilator can proved continuous ad intermittent ventilation for patients ranging from neonates, pediatrics, and adults. The Respironics Esprit is a microprocessor powered ventilation machine that offers a range of modes and breathing types, including; volume control, and pressure control. The system has no air compressor in the machine making it easy to run off of either Ac power or by a battery pack or external battery. At the same time, Esprit has incorporated a fast, high-performance blower to remove the need for any air source gas. The Philips Respironics ventilation system has a full-color touch screen display making it easy to use.

Features

- Pressure Support, Pressure Control Ventilation.
- Fully integrated microprocessor control for system control and monitoring.
- 100 cm H2O pressure capability and 200 liter per minute flow.
- Risetime Control, on-board Auto-PEEP measurement and breath-by-breath oxygen mixing.
- Pressure Control and Non-invasion Ventilation Settings.
- Alarm and Status Indicators.
- Pressure Bargraph/Breath Indicator.
- On-board Systems Self-diagnostics.
- Can be operated by AC power, a battery pack, or an external battery.
- Invasive and noninvasive modes.
- Compressor-based ventilator.
- Infrared touchscreen.

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REVISED 8/23/2021

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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)

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Specifications Continued

Pressure Controls Continued

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%

Patient Type: Adult/Pediatric

Apnea Rate: 1-80 bpm

Non-Invasive Controls

Respiratory Rate: 1 to 80 bpm

EPAP: 2 to 25 cmH2O (hPa)

IPAP: 2 to 25 cmH2O (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

%O2: 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

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