

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.



SOMA TECH INTL • 166 HIGHLAND PARK DRIVE • BLOOMFIELD, CT 06002 • USA PHONE: 1.800.GET.SOMA • WWW.SOMATECHNOLOGY.COM • EMAIL: SOMA@SOMATECHNOLOGY.COM

Philips Respironics Esprit Ventilator

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)

%02: 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)



SOMA TECH INTL • 166 HIGHLAND PARK DRIVE • BLOOMFIELD, CT 06002 • USA PHONE: 1.800.GET.SOMA • WWW.SOMATECHNOLOGY.COM • EMAIL: SOMA@SOMATECHNOLOGY.COM

Philips Respironics Esprit Ventilator

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

Ipm above sensitivity (Resolution is 0.1 lpm)

Exhalation Trigger: 10 to 45% of inspiratory peak flow

%02: 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

