Ventilator

PHILIPS RESPIRPONICS V60 PLUS

ABOUT

The Philips Respironics V60 Plus is a Ventilator that runs on a microprocessor with bi-level, positive air ventilation that can be either non-invasive or invasive for spontaneous breathing. The V60 Plus can offer two different ventilation therapy options in one machine, Non-Invasive (NIV) and High Flow Therapy (HFT). Additionally, the V60 Plus offers AVAP to monitor the tidal volume in a pressure-limited mode, PCV when a Patient has reduced lung capacity and can't breathe fully on their own, and CPAP which can provide continuous pressure throughout the respiratory cycle.

FEATURES

High-resolution graphics facilitate waveform interpretation.

Internal 6-hour battery

Standby mode supports patient-clinician interaction without nuisance alarms.

Data communication capabilities support hospital connectivity.

Respi-Link, a remote communication tool

AVAPS maintains a target tidal volume in a pressure-limited mode.

CPAP with C-Flex offers three levels of flow-based expiratory pressure relief.

ICU-grade NIV performance with enhanced safety and monitoring.

Philips Respironics v60 Plus

SPECIFICATIONS

DIMENSIONS

Height: 13.3 in (33.7 cm)

Width: 15.5 in (39.4 cm)

Depth: 16.5 in (42.9 c)

Weight: 10.9 kg (24 lbs) with Battery

Weight: 10 kg (22 lbs) without Battery

PATIENT TYPES

Adult

Pediatric

BATTERY

14.4V, 10.0 Ah, 163 Wh

Maximum system current draw: 11 A

Charge Voltage: 16.9 V Maximum

Operating Time: 360 minutes under normal conditions

MODES

Continuous positive airway pressure (CPAP)

Spontaneous with timed backup (S/T)

Pressure control ventilation (PCV)

Average volume assured pressure support (AVAPS) —optional

SETTINGS

C-Flex OFF, 1–3

CPAP 4–25 cmH2O

EPAP 4–25 cmH2O

IPAP 4–40 cmH2O

I-time (inspiratory time) 0.30–3.00 sec

Max P (AVAPS maximum IPAP) 6–40 cmH2O

Min P (AVAPS minimum IPAP) 5–30 cmH2O

O2 (oxygen percent) 21–100%

Ramp time OFF, 5–45 min

Rate (respiratory rate) 4–60 BPM

Rise (rise time) 1–5

Triggering and cycling Auto-adaptive (Auto-Trak)

AVAPS target tidal volume 200–2000 ml

MONITORED PARAMETERS

Breath Phase / Trigger Indicator Spont, Timed, Exhale

PIP 0–50 cmH2O

Patient / Total Leak 0-200 l/min BTPS

Patient trigger 0–100%

Respiratory rate 0–90 BPM

Ti/Ttot 0–91%

Minute volume ² O PLQ%736

Tidal volume 0–3000 ml BTPS

GENERAL

Oxygen inlet pressure range 276–600 kPa (40–87 psig)

Weight 10.9 kg (24lb) with optional battery; 10.0 kg (22 lb) without optional battery

Dimensions 33.7 cm (13.3 in) height; 39.4cm (15.5 in) weight; 42.9 cm (16.5 in) depth

ELECTRICAL

AC voltage 100–240 VAC

AC frequency 50–60 Hz

AC power 300 VA

Battery operating time 6 hours in normal conditions

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SPECIFICATIONS

ENVIRONMENTAL SPECIFICATIONS (OPERATING)

Temperature: 41 to 104 °F (5 to 40 °C)

Relative Humidity: 15 to 95% (noncondensing)

Barometric Pressure: 600 to 765 mmHg (approximately -61 to 1951 m (-200 to 6400 ft) relative to sea level)

ENVIRONMENTAL SPECIFICATIONS (STORAGE)

Temperature: -4 to 122 °F (-20 to 50 °C)

Relative Humidity: 10 to 95% relative (noncondensing)

Barometric Pressure: 600 to 765 mmHg (approximately -61 to 1951 m (-200 to 6400 ft) relative to sea level)

INSPIRATORY OUTLET (TO PATIENT PORT)

Connector: ISO 15 mm female/22 mm male conical

AIR SUPPLY

Integrated blower

FLOWS AND PRESSURES

Flow Delivery: 150 L/min at 40 cmH2O at 1951 m (6400 ft) altitude (10% degradation in flow at 2286 m (7500 ft))

Flow Range: -240 to 240 L/min BTPS

Pressure Range: 4 to 40 cmH2O

Dynamic pressure regulation: ± (2 cmH2O + 4% of target)

HIGH-PRESSURE OXYGEN SUPPLY

Connector: DISS male, DISS female, NIST

Pressure: 2.76 to 6.00 bar / 276 to 600 kPa / 40 to 87 psig

Flow: 175 SLPM

Connector: SIS

Pressure: 3.31 to 6.00 bar / 331 to 600 kPa / 48 to 87 psig

Flow: 175 SLPM

HIGH-PRESSURE OXYGEN SUPPLY (USING V60 MANIFOLD)

Connector: DISS male, DISS female, NIST

Pressure: 3.10 to 6.00 bar / 310 to 600 kPa / 45 to 87 psig

Flow: 175 SLPM

Connector: SIS

Pressure: 3.66 to 6.00 bar / 366 to 600 kPa / 53 to 87 psig

Flow: 175 SLPM