

Ventilator

PHILIPS RESPIRPNICS V60

ABOUT

The Philips Respironics V60 Ventilator is an assist ventilator to augment patient breathing. It is intended for spontaneously breathing individuals who require mechanical ventilation. For example, patients with respiratory failure, chronic respiratory insufficiency, or obstructive sleep apnea in a hospital or other institutional setting under the direction of a physician. The Respironics Philips V60 is intended to support pediatric patients weighing 44 lbs (20 kgs) or greater adult patients.

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.



SPECIFICATIONS

DIMENSIONS

Height: 13.3 in (33.7 cm)

Width: 15.5 in (39.4 cm)

Depth: 16.5 in (42.9 cm)

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

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