



Dedicated to successful NIV

Philips Respironics V60 ventilator specifications

PHILIPS

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The Respironics V60 ventilator combines Respironics' ventilation expertise with Philips focus on simplifying advanced health care. The result is the noninvasive ventilation gold standard with an invasive ventilation safety net and an interactive display that helps simplify patient management.



1. Patient types

Adult
Pediatric ($\geq 20\text{kg}$)

2. Modes

2.1 Standard

CPAP (continuous positive airway pressure)

S/T (spontaneous with timed backup)

PCV (pressure control ventilation)

2.2 Optional

AVAPS (average volume assured pressure support)

PPV (proportional pressure ventilation)*

3. Settings

Settings	Range
C-Flex	OFF, 1 – 3
CPAP	4 – 25cmH ₂ O
EPAP	4 – 25cmH ₂ O
IPAP	4 – 40cmH ₂ O
I-time (inspiratory time)	0.30 – 3.00sec
Max P (AVAPS maximum IPAP)	6 – 40cmH ₂ O
Min P (AVAPS minimum IPAP)	5 – 30cmH ₂ O
O ₂ (oxygen percent)	21 – 100%
Ramp time	OFF, 5 – 45min
Rate (respiratory rate)	4 – 60bpm
Rise (rise time)	1 – 5
Triggering and cycling	Auto-adaptive (Auto-Trak)
AVAPS target tidal volume	200 – 2,000ml btps
Max E	0 – 100cmH ₂ O/l
Max R	0 – 50cmH ₂ O/l/s
PPV%	0 – 100%
Max P (PPV maximum pressure limit)	5 – 40cmH ₂ O
Max V (PPV maximum volume limit)	200 – 3,500ml

* May not be available in all markets

4. Modes with settings

	CPAP	S/T	PCV	AVAPS	PPV
Rate		•	•	•	•
I-time		•	•	•	•
CPAP	•				
EPAP		•	•	•	•
IPAP		•	•		•
Rise		•	•	•	•
Min P				•	
Max P				•	•
Max V					•
Max E					•
Max R					•
PPV%					•
O ₂	•	•	•	•	•
VT (tidal volume)				•	
C-Flex	•				
Ramp time	•	•	•		

5. Monitored parameters

5.1 Patient data window	
Breath phase/trigger indicator	Spont, timed, exhale
PIP	0 – 50cmH ₂ O
Patient/total leak	0 – 200l/min btps
Patient trigger	0 – 100%
Respiratory rate	0 – 90bpm
Ti/Ttot	0 – 91%
Minute volume	0 – 99.0l/min btps
Tidal volume	0 – 3,500ml btps
5.2 Waveform window	
Pressure waveform	0 – 50cmH ₂ O
Flow waveform	-240 – 240l/min btps
Volume waveform	0 – 3,500ml btps

6. Alarms

Alarm	Adjustable range
Hi Rate (high respiratory rate alarm)	5 – 90bpm
Lo Rate (low respiratory rate alarm)	1 – 89bpm
Hi V _T (high tidal volume alarm)	200 – 3,500ml
Lo V _T (low tidal volume alarm)	OFF – 1,500ml
HIP (high inspiratory pressure alarm)	5 – 50cmH ₂ O
LIP (low inspiratory pressure alarm)	OFF, 1 – 40cmH ₂ O
Lo V _E (low minute ventilation alarm)	OFF, 0.1 – 99l/min
LIP T (low inspiratory pressure delay time)	5 – 60sec

7. Other settings

Alarm volume	1 – 10 (relative scale)
Brightness	1 – 5 (relative scale)
Exhalation port selection	DEP (disposable exhalation port) Whisper Swivel PEV (plateau exhalation valve) Other None (no inline circuit exhalation port)
Interface selection	ET/Trach, 1, 2, 3, Other
Screen lock	Off, On
Auto-Trak Plus	Optional*
Trigger	Normal, 1 – 7
E-cycle*	-2, -1, Normal, 1 – 6

8. Environmental

8.1 Temperature	
Operating conditions	+5 – +40°C
Storage conditions	-20 – +50°C
8.2 Relative humidity	
Operating conditions	15 – 95% (non-condensing)
Storage conditions	10 – 95% (non-condensing)
8.3 Barometric pressure	
Operation and storage	79.9 – 101.1kPa (600 – 765mmHg)
8.4 Altitude	
Operation and storage	-51 – 1951m (-167 – 6400ft) relative to sea level

* May not be available in all markets

9. Communication

Philips IntelliBridge EC40/80
Philips VueLink OpenInterface
Respi-Link remote diagnostic system
Bernoulli™ management system
Capsule™ DataCaptor™ device interface driver
GE Healthcare (Centricity Critical Care)
Cerner CareAware™ iBus™
Other monitoring and patient information systems
RS232 digital and analog

10. Electrical

10.1 External	
AC voltage	100 – 240 VAC
AC frequency	50 – 60Hz
AC power	300 VA
10.2 Battery (optional)	
Nominal voltage	14.4V
Capacity	11.0Ah
Battery chemistry	Lithium-ion
Operating time	6 hours in normal conditions

11. Physical

Weight	10.9kg (24lb) with optional battery
	10.0kg (22lb) without optional battery
Dimensions	33.7cm (13.3in) height
	39.4cm (15.5in) width
	42.9cm (16.5in) depth

12. Regulatory compliance

IEC 60601-1	Medical Electrical Equipment, Part 1: General Requirements for Safety
CSA C22.2 No. 601.1	Medical Electrical Equipment, Part 1: General Requirements for Safety
UL 60601-1	Medical Electrical Equipment, Part 1: General Requirements for Safety
EN 60601-1	Medical Electrical Equipment, General Requirements for Safety
EN 60601-1-1	Medical Electrical Equipment, Part 1-1: Safety Requirements
IEC 60601-2-12	Medical Electrical Equipment – Part 2-12: Particular Requirements for the Safety of Lung Ventilators – Critical Care Ventilators
EN 60529	Degrees of Ingress Protection Provided by Enclosures (IPX1@zero degrees tilt)
WEEE recycling directive	Compliant with the WEEE recycling directive

Please visit www.philips.com/V60



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