



The Newport™ HT70 plus ventilator combines ruggedness, ease of use and clinical proficiency with exceptional mobility for patients from 5kg to adult. All models of the Newport™ HT70 ventilator family can be used for home care, transport, hospital, long-term care and emergency preparedness, as well as for invasive or noninvasive ventilation.

In addition to its standard clinical features, the Newport™ HT70 plus ventilator offers an on-airway flow sensor that provides expanded monitoring with alarms and the choice of flow or pressure trigger. With waveform graphics, an oxygen cylinder usage calculator and internal battery use time estimator, the Newport™ HT70 plus ventilator goes beyond standard portable ventilation.

Features

- An on-airway flow sensor provides more choices for ventilation—inspiratory or expiratory monitoring and alarms, flow or pressure trigger.
- The hot-swappable battery provides up to 10 hours of operation (depending on settings). Batteries can be swapped out on the go for extended operation and added freedom without interrupting ventilation.
- The Battery Time Estimator provides added peace of mind during transports.
- Built-in oxygen monitoring and alarms alert users to changes or disruptions when using supplemental oxygen.
- The Cylinder Use Time Calculator helps estimate how long oxygen will last when on the go.
- The full-color touch screen provides easy access to all controls, simple navigation and a help guide for added convenience.
- With its rugged and reliable construction, the ventilator is designed to withstand rough treatment in a wide range of environments.
- A patented gas generator runs cool and quiet, is gas efficient and provides consistent volume delivery.
- Advanced features such as Alarm Quickset, custom presets and custom backup ventilation make this an exceptional portable ventilator.



Specifications

Dimensions

Width: 9.75 in. (24.74 cm)
 Depth: 11 in. (27.94 cm)
 Height (includes handle): 10.25 in. (26.04 cm)
 Weight: 15.4 lbs (6.9 kg)
 Touchscreen: 5.2 in. (13.20 cm) X 3.9 in (9.90 cm)
 Nominal: 7 in. (17.78 cm) diagonal

Patient Range

(≥5 kg) – Adult

Controls/Settings

Modes (Pressure or volume): A/CMV, SIMV, SPONT
 NIV (Noninvasive ventilation): On/off in all modes
 VT (Tidal Volume): 50 to 2,200 mL
 RR (Respiratory Rate): 1 to 99 b /min
 i Time (Inspiratory Time): 0.1 to 3.0 sec
 PEEP/CPAP: 0 to 30 cm H₂O/0 to 30 mbar
 PS (Pressure Support): 0 to 60 cm H₂O/0 to 60 mbar*
 Flow: 6 to 100 L/min
 I:E Ratio: 1:99 to 3:1
 PC (Pressure Control): 5 to 60 cm H₂O/5 to 60 mbar
 Ptrig (Sensitivity): -9.9 to 0 cm H₂O/-9.9 to 0 mbar
 Flow Trigger: 0.0 to 10.0 L/min, Off
 Manual Inflation: 3 sec maximum
 O₂ (oxygen): 21 to 100%
 Bias Flow: NIV off: 7 L/min w/PEEP
 NIV on: 3 to 30 L/min w/PEEP
 PS Max i time: 0.1 to 3.0 sec
 PS % Exp. Threshold: 5 to 85%
 Slope Rise: 1 to 10
 Flow Wave Pattern: Square or descending
 Auto Lock function: On/off
 Language Selection: Multiple language options
 *PEEP + PS cannot exceed 60 cm H₂O/mbar

Monitored Parameters

Paw (Peak, Mean, Base): VTI / VTE (insp./exp. tidal volume)
 MVI/ MVE (insp./exp. minute volume): Peak Insp. Flow
 RR tot (total respiratory rate): Internal Dual Battery System
 O₂ Concentration: I:E Ratio
 O₂ Cylinder Use: Battery Use Time Estimator



Specifications (Continued)

Alarms

High/Low Airway Pressure: Apnea
High/Low Baseline Pressure: High/Low Oxygen
High Resp. Rate: Low Battery
High/Low Minute Volume: Alarm Silence/Reset
Device Alert: Back-up Ventilation Alert
High Tidal Volume: Airway Flow Sensor Disconnect

Specialty Screens

Events: Records up to 1,000 events with parameter settings
Trends: Displays trend graphs for last 72 hours
Waveform Graphics: Flow/pressure/tidal volume
Help: Touch any button for a tutorial of that feature
Domains: Basic, transport and hospital
Export Data: Capture/download events and trends
Patient Presets: Customized or default
Customized Back Up Ventilation: Link with apnea and/or low MV and customize settings

Power Requirements

100-240 VAC, max. 2A , 50/60 Hz
12-24 VDC, max. 5A
0.1A at nominal setting