

EASY TO USE. WHEREVER IT'S NEEDED.

Newport™ HT70 Plus Ventilator



A PORTABLE VENTILATOR WITH EXTRA CAPABILITIES

Monitoring

- Waveform graphics
- Exhaled tidal volume monitoring with alarms
- Built in oxygen monitoring with alarms

Features

- Domain settings (basic, transport, hospital)
- Flow trigger and pressure trigger
- O₂ cylinder time calculator
- Battery time estimator
- On-airway flow sensor
- Easy setup for NIV/CPAP
- Waves, trends, and events

Ease of use

- Large format color-coded screens
- On-screen help guides
- Customizable presets
- Quickset alarms

Portable

- Internal dual battery system
 - Up to 10 hours* on hot-swappable, integrated battery
 - Backup battery provides extra 30 minutes of use
- Battery recharges in three hours
- Conserves power

*Fully charged at standard settings

BENEFITS ACROSS CARE SETTINGS

Hospital

- Waveform graphics
- On-airway flow sensor
- Customizable patient presets
- Event log and trend screens

Long-term care

- Easy to setup and use
- Small and portable
- Central monitoring/remote alarm compatible

Home care

- Simplified color touch screen
- Hot-swappable battery for continuous operation
- On-screen help guides
- Quickset alarms

Emergency response

- Rugged construction
- Fast setup with presets and alarm quickset
- Recharges in three hours

Transport

- Extended battery time available
- O₂ cylinder use-time calculator
- Conserves power and oxygen
- Oxygen monitor/alarms
- Battery time estimator

Newport™ HT70 Plus Ventilator Specifications

PATIENT RANGE	
Infant/Pediatric (≥5 kg) to 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 H ₂ O/0 to 30 mbar
PS (Pressure Support)	0 to 60 ccm H ₂ O/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 H ₂ O/5 to 60 mbar
P _{trig} (Sensitivity)	-9.9 to 0 cm H ₂ O/-9.9 to 0 mbar
Flow Trigger (Sensitivity)	0.1 to 10.0 L/min, Off
Manual Inflation	3 sec maximum or until high pressure alarm limit is reached
O ₂ (oxygen) (optional)	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 seconds
PS % Exp. Threshold	5% to 85%
Slope/Rise	1 to 10
Flow Wave Pattern	Square or descending
Auto Lock Function	Enable/disable
Language Selection	Multiple language options
**PEEP + PS cannot exceed 60 cm H ₂ O/mbar	
MONITORED PARAMETERS	
Paw (Peak, Mean, Base)	V _I /V _T E (insp./exp. tidal volume)
MV/MV _E (insp./exp. min volume)*	Peak insp. flow
RR tot (total respiratory rate)	Internal dual battery system
O ₂ Concentration (optional)	I:E ratio
O ₂ Cylinder Time	Battery time
ALARMS	
High Airway Pressure	4 to 99 cm H ₂ O/4 to 99 mbar
Low Airway Pressure	3 to 98 cm H ₂ O/3 to 98 mbar (if NIV is off)
High/Low Baseline Pressure	Automatically set
High Resp. Rate	Off, 30-100 b/min
High Minute Volume	NIV off: 1.1 to 50 L NIV on: 1.1 to 80 L
Low Minute Volume	NIV off: 0.01 to 49.0 L NIV on: Off, 0.01 to 49.0 L
Apnea	5 to 70 seconds
High O ₂	Off, 24 to 100
Low O ₂	Off, 22 to 98
Backup Battery Low	Min. 30 minutes battery remains**
Alarm Silence/Reset	60 seconds

Specifications subject to change without notice.

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ADDITIONAL ALARM ALERTS	
Device Alert	Backup ventilation alert
High Tidal Volume	Airway flow sensor disconnect
PNEUMATICS	
Gas Delivery System	Internal twin micro-pistons
Air/Oxygen Mixer (Optional)	35 to 65 psig 2.4 – 4.5 Bar
Low Flow Oxygen Reservoir (Optional)	1 – 10 L/min
POWER REQUIREMENTS	
100-240 VAC, max. 2A	
50/60 Hz	
12-24 VDC, max. 5A	
0.1A at nominal setting	
INTERNAL DUAL BATTERY SYSTEM	
Primary Internal Power Pac Battery	Lithium ion – provides up to 10 hours of operation
Secondary Internal Backup Battery	Lithium ion – minimum of 30 minutes of operation
DIMENSIONS	
Width	9.75 in. (24.77 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
MISCELLANEOUS	
Operating Temperature	-18 C to 40 C
Operating Altitude	0 to 15,000 ft (0 to 4,572 m) (non pressurized environment)
Operating Humidity	15% to 95% non-condensing
Storage Temperature	-40 C to 65 C
RS-232C	Nine-pin connector
USB	Two ports, to upload or download data, and connect to central monitoring systems
Remote Alarm/Nurse Call	RJ-435, normally open/closed, respironics
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 Backup Ventilation	Link with apnea and/or low MV and customize settings

* Exhaled volumes can only be monitored if On Airway flow sensor is in use. MV_E can be monitored without flow sensor.

** Alarm automatically sounds once switched to backup battery to indicate 30 mins remaining

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