



Newport™ HT70 Plus Ventilator



Hospital

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



Long-Term Care

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



Home Care

- Simplified full-color touch screen
- Hot-swappable battery for continuous operation
- On-screen help guides
- Alarm Quickset feature



Emergency Preparedness

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



Transport

- O₂ cylinder use-time calculator
- Power and oxygen conserving
- Oxygen monitor/alarms
- Battery time estimator

The Newport™ ventilation family now includes the Newport™ HT70 Plus ventilator. The Newport HT70 Plus ventilator is easy to use, portable and has an on-airway flow sensor capability and waveform graphics.

Monitoring

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

Features

- 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

- Larger format color-coded screens
- On-screen help guides
- Customizable presets
- Alarm Quickset

Portable

- Up to 10 hours* on hot-swappable, integrated battery
- Secondary backup battery for a minimum of 30 minutes
- Full battery recharge in only three hours
- Oxygen and power conserving

*Fully charged at standard settings

PATIENT RANGE

Infant/Pediatric (≥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 H ₂ O/0 to 30 mbar
PS (Pressure Support)	0 to 60 cm 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-trigger (Sensitivity)	-9.9 to 0 cm H ₂ O/-9.9 to 0 mbar
Flow Trigger	0.0 to 10.0 L/min, Off
Manual Inflation	3 sec maximum
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	On/off
Language Selection	Multiple language options

PEEP + PS cannot exceed 60 cm H₂O/mbarMONITORED PARAMETERS**

Paw (Peak, Mean, Base)	V _T /V _T E (insp./exp. tidal volume)
MV _T /MV _E (insp./exp. min volume)	Peak insp. flow
RR tot (total respiratory rate)	Internal dual battery system
O ₂ Concentration	I:E ratio
O ₂ Cylinder Time	Bat. 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
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
Low Battery	Min. 30 minutes battery remains
Alarm Silence/Reset	60 seconds

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. (24.74 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

MISCELLANEOUS

Operating Temperature	-18° C to 40° C
Operating Altitude	0 to 15,000 ft (0 to 4,572 m)
Operating Humidity	15% to 95% non-condensing
Storage Temperature	-40° C to 65° C
RS-232	Nine-pin connector
USB	Two ports, to upload or download data
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

Specifications subject to change without notice.

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