Newport HT70

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The Newport HT70® Ventilator combines ease of use, clinical finesse, exceptional portability, and ruggedness in one compact package.

Designed for patients ≥ 5kg to adult, the HT70 is ideal for home care, transport, hospital, longterm care, and emergency preparedness applications for invasive or noninvasive ventilation. The full color touch screen is easy to navigate and offers specific screens for homecare, transport and hospital applications, default or customizable presets, Alarm Quickset and Help functions.

Developed and manufactured entirely by Newport Medical in California, USA, the compact HT70 features a newly designed, patented, micro-piston technology that eliminates the need for external compressed gas. The hot swappable integrated battery system provides up to 10 hours of operation at standard settings and can be fully recharged in only 3 hours. For a long transport, a full day at the park or in case of a power emergency , the HT70 allows for virtually continuous operation.

Specifications

Controls/Settings

Modes (Pressure or Volume): A/CMV, SIMV, SPONT

NIV (non-invasive 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 cmH2O/0 to 30 mbar

PS (Pressure Support): 0 to 60 cmH2O/0 to 60 mbar *

Flow: 6 to 100 L/min

I:E Ratio: 1:99 to 3:1

PC (Pressure Control): 5 to 60 cmH2O/5 to 60 mbar

Ptrig (Sensitivity): -9.9 to 0 cmH2O/-9.9 to 0 mbar

Flow Trigger: 0.0 to 10.0 L/min, Off

Manual Inflation: 3 sec maximum

F I O 2 (Optional) +: .21 to 1.00

Bias Flow: 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 Max i time: 0.1 to 3.0 sec

PS % Exp. Threshold: 5 to 55%

Slope Rise: 1 to 10

Flow Wave Pattern: square or descending

Auto Lock function: ON / OFF

Language Selection: Selection multiple language options

*PEEP + PS cannot exceed 60 cmH2O/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 Time

Alarms

High Airway Pressure

Low Airway Pressure

High / Low Baseline Pressure

High Resp. Rate

High Minute Volume

Low Minute Volume

High O2

Low O2

Apnea

Low Battery

Alarm Silence/Reset

Device Alert

Back-up Ventilation Alert

Airway Flow Sensor Disconnect

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

Specialty Screens

Events: Record 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 & trends

Patient Presets: Customized or Default

Customized Back Up Ventilation: Link with Apnea and/or Low MV and customize settings

Applications

Long-Term Care

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

Home Care

- Simplified full color touch screens
- Hot swappable battery for continuous operation
- On-screen help guide
- Alarm quickset

Hospital

- Waveform graphics

- Clinically advanced features
- Customizable patient presets
- Event log and trend screens

Emergency Preparedness

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

Transport

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

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