Impact 754 Eagle Univent

Impact 754 Eagle Univent

Product Description

The best critical care transport ventilator on the market. Completely self contained, the Impact 754 Eagle is battery powered, weighs just over 12 lbs. and consumes no gas. Featuring an internal compressor and blender, the Eagle offers PEEP with Controlled Assist, SIMV, Intubated CPAP, and CMV (for Apnea backup) ventilation modes. Bright graphic LCD provides monitoring and alarm settings. An interactive demo/teaching mode assures fast startup sequence in as little as three steps. The Eagle is EMI/RFI & air medical certified.

Features:

- Operation from Internal Compressor
- Built in backup ventilator
- Internal Air/Oxygen mixer
- External Air & Oxygen inputs
- Automatic Altitude Compensation
- EMI/RFI Aeromedical Certification
- Interactive user demo mode
- Auto Backlighting of LCD display
- Management of available gas or gases
- Internal PEEP
- Low cost disposable ventilator circuits
- Apnea backup

- AC-DC rechargeable battery
- Airway pressure waveform graphics
- Continuous display of all control settings

Maquet SERVO-i

Maquet SERVO-i

SERVO-i® combines a high level of clinical performance for invasive, non-invasive or neurally controlled ventilation with outstanding mobility and cost efficiency.

Configurations

- SERVO-i Infant
- SERVO-i Adult
- SERVO-i Universal for all patient categories

Benefits

- Same system for invasive and non-invasive ventilation of adult, pediatric and neonatal patients, at the bedside and during transport and MR examinations
- Interchangeable modules can be used on all SERVO-i systems (CO_2 Analyzer, Y Sensor and Edi plug-in modules, batteries, expiratory cassettes)
- Plug-in modules and extra batteries can be inserted/ removed during ventilation

- Quick automatic pre-use check of entire system including breathing circuit
- 1 year/5,000 hours planned maintenance interval

Flexible

- Switch between conventional pneumatic ventilation or neurally-controlled ventilation
- Backup ventilation in case of apnea with automatic return to the supported mode if the patient starts to trigger breaths again
- Sensitive fl ow and pressure triggering with fast response time minimizes the work of breathing
- Compensation of compressible volume during inspiration
- Adjustable trigger sensitivity, apnea times and alarm sound level settings

Get the User Manual Here

Newport HT50

Newport HT50

The Newport HT-50 All-Purpose ventilator offers comprehensive, versatile features to meet the demands of almost any healthcare setting. The HT-50 is suitable for both pediatric and adult patients in hospital, extended care, home care or transport use.

Features

• Self-contained Volume or Pressure Ventilator
• Sophisticated Modalities such as A/CMV, SIMV, SPONT

• Volume or Pressure Control/Pressure Support
• PEEP/CPAP
• Comprehensive Alarm functions
• Built-in Battery (up to 10 hr. operation) with integrated alarm system
• Self-Switching Versatile Power Supply
• Patented self-contained air compressor system. External compressed air is not needed.
• Brightly lit LED displays identify essential functions

Get the User Manual Here

Newport HT70

Newport HT70

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

Get the Quick Guide Here

Philips V60

Respironics V60

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.

Key Advantages

- ICU-grade NIV performance with enhanced safety and monitoring
- Treatment for a wide range of clinical severities and patints from pediatric to adult

Because every breath natters and every breath is different, patients need a ventilator that always follows their breathing pattern, whatever their acuity. The Respironics V60 uses auto-adaptive technology to help ensure patient synchrony and therapy acceptance. Improved signal processing thechnology is finely tuned for both adult and pediatric patients.

Advanced NIV with Auto-Trak

- Auto-adaptive leak compensation
- Auto-adaptive inspiratory triggering
- Auto-adaptive expiratory cycling

New modes for the hospital

- AVAPS maintains a target tidal volume in a pressure limited mode. It provides extra assurance similar to a volume limited mode with the safety of a pressure limited mode.

- PCV can be used when full control of the patient's breathing pattern is required. Accurate volume monitoring improves invasive ventilation safety.
- CPAP with C-Flex option offers three levels of flow-based expiratory pressure relief. This leads to improved sleep quality and patient comfort, adding greater flexibility and improved treatment acceptance.

Get the User Manual here

Puritan Bennett 840

Puritan Bennett 840

The Puritan Bennett™ 840 ventilator features Covidien's PAV™*+ software, providing a breath type that better manages a patient's breathing effort and let's patient breath more naturally. Anyone from neonatal patients weighing as from 12oz to adult patients weighing as much as 375lb can be accomodated with proper options installed.

Specifications

- Ideal body weight (IBW): 0.3 to 7.0 kg with NeoMode 2.0 (0.66 to 15 lbs), 7.0 to 24 kg (15 to 53 lbs), 25 to 150 kg (55 to 330 lbs)
- Modes: Assist/Control (A/C), synchronized intermittent mandatory ventilation (SIMV), or spontaneous (SPONT), Bi-Level
- Software Options: NeoMode 2.0, Leak Compensation, Tube Compensation, Bi-Level, Volume Ventilation Plus (Volume Control Plus and Volume Support), Proportional Assist™* Ventilation Plus (PAV™*+), Respiratory Mechanics and Trending
- Mandatory breath types: Volume Control (VC), Pressure Control (PC) or Volume Control Plus with Volume Ventilation Plus option

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- Spontaneous breath types: Pressure Supported (PS), Volume Supported (VS), Proportional Assist (PA), none
- Vent type: Invasive or Noninvasive
- Pressure support (PSUPP): 0 to 70 cm H2O
- Rise time %: 1% to 100%
- Expiratory sensitivity (ESENS): 1% to 80%; 1 L/min to 10 L/min with PAV™*+
- Tidal volume (VT): 25 to 2,500 mL, 2 to 315 mL with NeoMode
- Respiratory rate (f): 1.0 to 100 /min, 1 to 150 /min with NeoMode
- Peak inspiratory flow (VMAX): 3 to 150 L/min for IBW > 24 kg; 3 to 60 L/min for IBW ≤ 24 kg, 1 to 30 L/min with NeoMode
- Flow pattern: Square or descending ramp
- Plateau time (TPL): 0.0 to 2.0 seconds
- Inspiratory pressure (PI): 5 to 90 cm H2O
- Constant during rate change: Inspiratory time (TI), I:E ratio or expiratory time (TE)
- Inspiratory time (TI): 0.2 to 8.0 seconds
- I:E ratio: ≤ 1:299-4.00:1
- Expiratory time (TE): TE ≥ 0.2 second
- Trigger type: Pressure (PTRIG) or flow (VTRIG Flow-by flow triggering)
- Pressure sensitivity (PSENS): 0.1 to 20 cm H2O below PEEP
- Flow sensitivity (VSENS): 0.2 to 20 L/min, 0.1 to 10 L/min with NeoMode
- O2%: 21% to 100%
- PEEP: 0 to 45 cm H2O

- Apnea ventilation: Apnea mandatory type-volume control (VC) or pressure control (PC)
- Apnea flow pattern: Square or descending ramp
- Apnea peak flow (VMAX): ≥ 1.0 L/min to ≤ 30 L/min, ≥ 3.0 L/min to ≤ 60 L/min, ≥ 3.0 L/min to ≤ 150 L/min
- Apnea tidal volume (VT): 3 mL to 315 mL for neonatal; 25 mL to 2500 mL for ped/adult
- Apnea inspiratory pressure (PI): 5 to 90 cm H2O
- Apnea inspiratory time (TI): 0.2 to 8.0 seconds
- Apnea interval (TA): 10 to 60 seconds
- Apnea respiratory rate (f): 2.0 to 40 1/min
- Apnea O2%: 21% to 100%
- Apnea expiratory time (TE): ≥ 0.2 seconds
- Disconnect sensitivity (DSENS): 20% to 95% or OFF in NIV
- Humidification type: Heat-moisture exchanger (HME), nonheated expiratory tube or heated expiratory tube
- Humidification volume: 100 to 1,000 mL
- Patient circuit type: Pediatric, adult or neonate with NeoMode option

Get the Operation Manual Here

ResMed Astral 100

ResMed Astral 100

From initial setup to everyday use, the award-winning1 Astral offers greater freedom, confident care and designed efficiency to enrich life for you and your patients. It offers a range of treatment options for both adult and pediatric patients, and is compatible with a variety of interfaces to deliver excellence in invasive and noninvasive life support ventilation.

Its discreet and lightweight design allows patients to go beyond the confines of their home or healthcare environment. And with its intuitive interface, easy setup and simple servicing, Astral has been designed to make ventilation support straightforward and efficient.

Key Features

- **Astral Connectivity to AirView.** ResMed's connectivity module will enable care providers to access key patient data in the cloud to better manage and improve the care for life support patients, all within ResMed's secure, HIPAA-compliant cloud network.

- **iVAPS.** ResMed's intelligent Volume-Assured Pressure Support mode is a unique algorithm that adjusts to a patient's respiratory rate, targets alveolar ventilation and automatically adjusts pressure support as needed to accommodate each patient's unique needs, even as their disease progresses. iVAPS is indicated for patients weighing more than 66lbs (30kg).

- **Confident care.** The large, color touch screen displays vital treatment information at the touch of a button; live monitoring and a full range of alarms gives clinicians peace of mind.

- **Greater freedom.** Designed for freedom and mobility, Astral weighs only 7.1 lbs (3.2 kg).

- **Ease of use.** Astral's intuitive interface, preset-ready programs and setup assistant allow for fast and accurate patient setup and simplified training for your staff.

- **Designed efficiency.** Astral requires minimal parts and components, making servicing simple and straightforward. And because simple service means fast turnaround times, you can now minimize downtime of devices to maximize business efficiencies.

ResMed Astral 150

ResMed Astral 150

Our award-winning Astral ventilator range has been designed for greater freedom and mobility. It weighs only
7.1 lbs (3.2 kg), and thanks to the combination of its internal and external batteries, it's able to deliver an impressive 24-hour total run-time. You can now plan and enjoy day-to-day activities beyond your home or hospital room, knowing Astral will be with you every step of the way.

The Astral 150 is a step ahead of other options with its ability to treat a wide range of patients.

Key Features

- Astral Connectivity to AirView: ResMed's connectivity module will enable your care provider to access key data in the cloud to better manage and improve your care, all within ResMed's secure, HIPAA-compliant cloud network.

- iVAPS: ResMed's intelligent Volume-Assured Pressure Support mode is a unique algorithm that adjusts to a patient's respiratory rate, targets alveolar ventilation and automatically adjusts pressure support as needed

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to accommodate each patient's unique needs, even as their disease progresses. iVAPS is indicated for patients weighing more than 66lbs (30kg).

- Convenience in motion. Astral's mobility bag features a transparent panel that makes the screen fully visible and accessible, and includes straps to wear over the shoulder or mount onto wheelchairs.

- Discreet performance. It's extremely quiet at just 35 dBA, making life more peaceful for you and others.

- Ease of use. Astral is designed with an intuitive interface, user-friendly menus and easy operation, helping make ventilation support straightforward and efficient.

- Suitable for pediatric use. Because a child's ventilation needs are different, we've designed a whole system for pediatric care: Astral with our Pixi™ pediatric mask (designed especially for children).

Respironics Trilogy 100

Respironics Trilogy 100

Simplicity

Light, versatile, and easy to use, the Triligy 100 offers clinicians and patients one of life's greatest qualities – simplicity. Whether at home or alternative-care sites, the Trilogy 100 portable volume and pressure support ventilator with BiPAP technology is made for adult and pediatric (>5kg) use.

Two Circuit Options

Interchangeable passive and active exhalation porting blocks give clinicians the flexiblility to choose the best circuit and interface available for patients. Its internal Peep, combined with a single limb circuit, creates an uncomplicated application.

Passive Exhalation Porting Block

- Uses a single BiPAP circuit with Whisper Swivel II or a mask with an integrated leak
- **Is compatable with pressure and volume ventilation modes**

Passive Exhalation Porting Block

- Uses a single limb circuit with a proximal pressure line and active exhalation valve.
- **Is compatable with pressure and volume ventilation modes**

Portability

- Trilogy 100 was designed with maximum portability in mind
- Only weighs 5kg or 11lbs
- Has 3 hour internal battery and 3 hour detachable battery
- **Able to connect to an external lead acid battery**

Data Management

As with many of our products, The Trilogy 100 comes equipped with an SD Data card to allow clinical evaluation of use and patient progress.

Get the Quick Start Guide Here

Respironics Trilogy 200

Respironics Trilogy 200

Simplicity

Light, versatile, and easy to use, the Trilogy 200 offers clinicians and patients one of life's greatest qualities – simplicity. Whether at home or alternative-care sites, the Trilogy 200 portable volume and pressure support ventilator with BiPAP technology is made for adult and pediatric (>5kg) use.

Three Circuit Options

The Trilogy 200's new universal porting block gives you the flexibility to choose from three different circuit configuations and provide the best available option for the patient.

Active Flow

- Uses a single limb circuit with active exhalation valve and proximal flow sensor
- Flow triggering
- Exhaled Tidal volume measured
- Leak compensation on/off

Active with PAP

- Uses a single limb circuit with active exhalation valve and proximal airway pressure line.
- Proximal flow sensor
- Inhaled Tidal volume measured

Passive Circuit

- Uses a single limb circuit with passive exhalation port or mask with an integrated leak.
- Autotrak or flow triggering options
- Exhaled Tidal volume estimated
- Compatible with pressure and volume modes

Portability

Trilogy 200 was designed with maximum portability in mind

- Only weighs 5kg or 11lbs
- Has 3 hour internal battery and 3 hour detachable battery
- Able to connect to an external lead acid battery

Data Management

The Trilogy 200 comes equipped with an SD Data card to allow clinical evaluation of use and patient progress.

Key Advantages

- ICU-grade NIV performance with enhanced safety and monitoring
- Treatment for a wide range of clinical severities and patients from pediatric to adult

Optional Accessories Available

- Carrying case
- Roll-around stand

Get the User Manual here

Respironics Trilogy 202

Respironics Trilogy 202

Simplicity

Light, versatile, and easy to use, the Trilogy 202 offers clinicians and patients one of life's greatest qualities – simplicity. Whether at home or alternative-care sites, the Trilogy 202 is both a volume-control & pressure-control ventilator for invasive and noninvasive ventilation. Versatile breath delivery and setup options provide greater continuity of care.

Three Circuit Options

The Trilogy 202's new universal porting block gives you the flexibility to choose from three different circuit configurations and provide the best available option for the patient.

Active Flow

- Uses a single limb circuit with active exhalation valve and proximal flow sensor.
- Flow triggering
- Exhaled Tidal volume measured.
- Leak compensation on/off.

Active with PAP

- Uses a single limb circuit with active exhalation valve and proximal airway pressure line.

- Proximal flow sensor
- Inhaled Tidal volume measured.

Passive Circuit

- Uses a single limb circuit with passive exhalation port or mask with an integrated leak.
- Autotrak or flow triggering options
- Exhaled Tidal volume estimated.
- Compatible with pressure and volume modes

Portability

Trilogy 202 allows freedom of movement.

- Only weighs 5.6 kg or 12.4 lbs
- Has 3 hour internal battery and 3 hour detachable battery
- Has integrated carrying handle for convenient handling during intra-hospital transports

Data Management

A secure digital (SD) card stores historical ventilatory data so that you can review treatment trends using DirectView software.

• Breath-by-breath waveforms

• Short-term and long-term trends

• Statistics and usage patterns

Key Advantages

- Internal O2 blender
- Innovative leak compensated volume control ventilation
- Supports active and passive circuits for invasive and noninvasive ventilation
- ICU-grade NIV performance with enhanced safety and monitoring
- Treatment for a wide range of clinical severities and patients from pediatric to adult

Auto-Trak improves synchrony

The Auto-Trak algorithm improves patient-ventilator synchrony by adjusting to changing breathing patterns and dynamic leaks. The auto-adaptive triggering, cycling, and leak adjustments may help reduce the time clinicians spend adjusting thresholds and re-fitting masks.

Leak compensation

The Trilogy 202 has the unique ability to compensate for leaks in both pressure and volume control modes. This allows the use of simpler passive circuits, which may save time and reduce costs.

Optional Accessories Available

- Carrying case
- Roll-around stand

Respironics V200

Respironics V200

Recovery starts with synchrony

The Respironics V200 Critical Care Ventilator provides state-of-the-art ventilation modes with synchrony options that reduce work of breathing and streamline patient care. As a busy clinician, you will appreciate the V200 Ventilator's design and its range of treatment modalities for all patient populations. The V200 Ventilator also supports care in any environment by connecting to Philips patient monitors and hospital information systems for a seamless flow of ventilation information.

For invasive ventilation, the Philips V200 provides instantly recognizable modes. Behind these modes, the V200 ventilator employs advanced breath delivery algorithms—Auto-Trak, Flow-Trak, and Baby-Trak—to improve patient-ventilator synchrony.

For noninvasive ventilation (NIV), the V200 functions like the BiPAP Vision with Auto-Trak, the gold standard for NIV. By using spontaneous breathing (S) and timed back-up (S/T) with IPAP and EPAP settings, the V200 keeps NIV simple, for new and experienced caregivers.

Specifications

Patient types – Adult, Pediatric, Neonates (≥ 0.5 kg)

Breath types – Volume control ventilation(VCV), Pressure control ventilation(PCV),

Modes – A/C (Assist/control), CPAP (Continuous positive airway pressure), NIV (Noninvasive ventilation), PSV (Pressure support ventilation), SIMV (Synchronized intermittent mandatory ventilation), SIMV/PSV (SIMV with pressure support),

Optional Features – Auto-Trak software, Flow-Trak software, Neonatal software with Baby-Trak, Speaking mode software, Respiratory profile monitor interface

software, 72-hour trending package software, Respiratory mechanics software, External Battery, Oxygen manifold kit

Communications – Philips VueLink open interface, Philips DeviceLink, Respi-Link, Capsule, Other monitoring and patient information systems, RS232 communications port, Printer compatible, Analog output port

Physical Dimensions (without cart)
Height – 42 cm (17 in)
Width – 38 cm (15 in)
Depth – 65 cm (25 in)
Weight – 30 kg (66 lb)
Weight with cart – 42 kg (93 lb)

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