Respironics BiPAP Focus

- DIGITAL AUTO-TRAK™ SENSITIVITY – Like many other Respironics bi-level ventilators, the BiPAP Focus System includes Respironics' proprietary Digital Auto-Trak Sensitivity. This feature assures optimum triggering and cycling sensitivity throughout changing breathing patterns and leaks. It also eliminates the need for a perfect seal of the patient interface and constant adjustment while promoting patient-ventilator synchrony.
- LARGE USER INTERFACE – Designed for the hospital environment, the user interface is easy to use. It allows the practitioner to easily and quickly adjust patient care settings.
- PATIENT PARAMETERS DISPLAY – This valuable feature conveniently allows the practitioner to view all patient parameters at once.
- PRESSURE BAR GRAPH – Quickly and clearly indicates patient breaths and pressure ranges.
- EASY-TO-USE ALARMS – Pressure alarms are automatically set to 5 cm H2O above IPAP and below EPAP settings, minimizing nuisance alarms and enhancing patient safety.
- BACKUP BATTERY – An integral backup battery system maintains patient ventilation in the event of an interruption in power. This safety feature also provides a convenient method for intra-hospital patient transport from one care area to another with uninterrupted ventilatory care.
- TOTAL VENTILATION SOLUTIONS – The BiPAP Focus Ventilator is part of our Total Ventilation SolutionsSM that help treat, monitor and manage respiratory-impaired< patients.

Specifications

- CPAP Pressure: 4 to 20 cm H2O (4 to 20 hPa) Resolution: 1 cm H2O (1 hPa) Dynamic Accuracy: ±5 cm H2O (±5 hPa)
- EPAP Pressure: 4 to 20 cm H2O (4 to 30 hPa) Resolution: 1 cm H2O (1 hPa) Dynamic Accuracy: ±5 cm H2O (±5 hPa)
- IPAP Pressure: 4 to 30 cm H2O (4 to 20 hPa) Resolution: 1 cm H2O (1 hPa) Dynamic Accuracy: ±5 cm H2O (±5 hPa)
- Rise Time: Settings 1 to 6 (where 1 = 0.1 sec and 6 = 0.6 sec) Resolution: 1 Accuracy: ±10% of setting (at R=50, C=20)

- Rate: 1 to 30 BPM
- Resolution: 1 BPM Accuracy: ±1BPM or ±10 % of setting whichever is greater over a 4 minute period. I-Time and Rate settings cannot allow I-Time to exceed expiratory time.
- I-Time: 0.5 to 3 sec Resolution: 0.1 sec Accuracy: ±0.1+10% of setting sec I-Time and Rate settings cannot allow I-Time to exceed expiratory time.
- Ramp Time: 0 to 45 min Resolution: 5 min Accuracy: ±10% of setting
- Ramp Start: 4 cm H2O to EPAP (4 hPa to EPAP) Resolution: 1 cm H2O (1 hPa)
- Patient Circuit Pressure: Range: 0 to 35 cm H2O (0 to 35 hPa) (continuous bar graph display)
- Rate: Range: 0 to 99 BPM
- Estimated Vt: Range: 0 to 4000 mL
- Estimated MV: Range: 0 to 99 L/min
- Patient Leak: Range: 0 to 200 L/min
- Apnea Rate: Range: 0 to 99 per hour
- High System Pressure Alarms: 5 cm H2O (5 hPa) over target IPAP pressure (Automatic)
- Low System Pressure Alarms: 5 cm H2O (5 hPa) under target EPAP pressure (Automatic)
- Apnea Alarms: Range: 20, 40, 60 sec or Off
- Apnea Rate Alarms: Range: 5, 10, 20 apneas per hour or Off
- Nurse Call Alarms: Supports normally open or normally closed systems
- Dimensions: 5.5″ H x 11.4″ W x 14″ D (140 mm x 290 mm x 355 mm)
- Weight: 10 lb (4.5 kg)
- Input Rating: 100VAC / 230VAC and 50/60 Hz
- Battery Backup: 3.8 amp-hour (NiMH)
- Fuse: No replaceable fuse
- Nurse Call: Rated current: 0.280 A Rated voltage: 250 V

Respironics BiPAP Vision

Ventilatory Support System
This versatile, simple, noninvasive ventilation system is designed with advanced technology to be accurate, reliable and easily upgradeable.

Integrated Display Screen
Integrated Display Screen displays easy-to-read real time graphics in waveform or bar scale format, providing the following measured and calculated numerical values to assist with ventilator management:
IPAP
Total Breath Rate
Exhaled Minute Ventilation
% Patient Triggered Breaths
Exhaled Tidal Volume
EPAP
Ti/Tot
Peak Inspiratory Pressure
Patient or Total Leak

Oxygen Control
Allows you to blend oxygen within the unit between 21 to 100% without auxiliary tubing attached to the mask.

Pressure Regulation
Pressure regulation at the mask, automatically adjusted for variation, provides regulated pressure delivery where it counts, at the mask, not inside the machine.

BiPAP® Auto-Trak Sensitivity™
Optimum Response Automatically. The innovative development of Auto-Trak Sensitivity™ enables the BiPAP Vision System to automatically respond to changing breathing patterns and circuit leaks by identifying leaks and adjusting variable sensitivity thresholds for optimum response with every breath.

Respironics Cough Assist CA-3000

Respironics Cough Assist Mechanical Insufflator-Exsufflator CA-3000

Cough Assist is a noninvasive therapy that safely and consistently removes secretions in patients with an ineffective ability to cough (peak cough flow <270 l/m).

Cough Assist clears secretions by gradually applying a positive pressure to the airway, then rapidly shifting to negative pressure. The rapid shift in pressure produces a high expiratory flow, simulating a natural cough.

Respironics CoughAssist T70

Airway Clearance Device
CoughAssist T70 clears secretions from the lungs by gradually applying positive pressure (insufflation) to the airway then rapidly shifting to negative air pressure (exsuffation). This shift in pressure creates a high expiratory flow, that simulates a deep natural cough.

An Alternative to traditional suction methods
Instead of introducing an intrusive suction catheter to the airway, air is delivered non-invasively through a mask, mouthpiece, or adapter that allows the device to function with a endothracheal or tracheostomy tube. Staying out of the airway, reducing the risk of injury or infection.

Comfort Driven with Auto Sensitivity
The T70 automatically adjusts to the patient’s breathing patterns for enhanced breath delivery. It allows more control of therepy and a comfortable more natural treatment.

Data Management
The T70 records activity to a standard SD card for retrieval. With DirectView software, Tidal Volume, Peak Flow, Oxygen Saturation, and other details can be

read to assist in clinical decisions.

Specifications

Environmental

Operating temperature: 5° C to 35° C
Relative humidity: 15 to 95% (non-condensing)
Atmospheric pressure: 101 kPa to 77 kPa (approximately 0-7500 ft)
Weight: 3.8 kg (8.4 lbs) (without detachable battery) 4.3 kg (9.4 lbs) (with detachable battery installed)
Size: 29.2 cm W x 23.1 cm H x 19.0 cm D (11.5” W x 9.1” H x 7.5” D)

Features and settings

Presets: 3
Modes: Manual and Auto
Maximum positive pressure: 70 cm H2 0
Maximum negative pressure: -70 cm H2 O
Triggering: Cough-Trak on/off (not available in Manual mode)
Inhale flow: Low, medium, high
Inspiratory time: 0.0 to 5.0 secs (not available in Manual mode)
Expiratory time: 0.0 to 5.0 secs (not available in Manual mode)
Pause time: 0.0 to 5.0 secs (not available in Manual mode or if Cough-Trak is enabled)

Viasys Infant Flow SiPAP

The Viasys Infant Flow SiPAP Ventilation system is the market leader in neonatal noninvasive ventilation, with clinically proven technology that is safe and reliable for neonates.

The Viasys Infant Flow SiPAP has features that include:
Clinically Proven Technology
Fully Integrated Alarm Package that contains alerts for High airway pressure, High

circuit pressure, low airway pressure, low or flat battery charge level, both high and low delivered Oxygen, low breath rate alarm, and Input gases failure
NCPAP and BiPhasic Support
LCD Touchscreen
Patented Infant Flow Generator
2 Hour Backup Battery
Self Calibration
Screen Lock to prevent unwanted changes

Additional Product Specifications include:
Battery Working Time -2 hours (from fully charged state)
Battery Charging Time –max. 16 hours
Power Consumption -50 VA maximum
Temperature Range-Operating: 5 – 40° C
Storage: 0 – 50° C
Relative Humidity -Operating: 0 – 90% non-condensing
Storage: 0 – 90% non-condensing
Dimensions-10.25 x15 x 9.25 in
Weight-19.5 lb
Input Voltage -100-230 VAC
Input Frequency -50/60 Hz
Manometer – Range 0 to + 20 cmH2O, accuracy, ± 2% of span