

# **VOCSN Multi-Function Ventilator**

**Defining Integrated Respiratory Care** 





# **Ventec Life Systems**

Experienced team with record of success





- Founded in 2012 by Doug DeVries, creator of the LTV
- History developing 18+ FDA cleared ventilators
- 80+ issued patents, collectively, for technologies prior to and not related to Ventec





# **Medical Conditions**

Ventilator patients include a spectrum of diseases and conditions

# Neuromuscular Disease

ALS, Post Polio, and Muscular Dystrophies including Myotonic, Duchenne, Becker, and Limb-gridle

# Spinal Cord Injury

Complete and incomplete spinal cord injuries

# Impaired Lung Function

Lung Cancer, COPD, Emphysema, Cystic Fibrosis, and Acute Respiratory Distress Syndrome (ARDS)

# **Pediatric Development Complication**

Complications of Prematurity, Bronchopulmonary Dysplasia (BPD), Chronic Lung Disease (CLD), Tracheal Malacia













5 machines | Multiple circuits



18 1 machine | 1 circuit











# **Challenges of Traditional Devices** VOCSN addresses three common challenges in respiratory care



#### Complex and time consuming

Administering patient care using five devices takes time, creates undo stress for caregivers, and increases the risk for mistakes. Consequently caregivers spend more time managing equipment and less time interacting with patients. Additionally, each device requires specific training to use and regular maintenance to keep working.



#### Limited portability

Ventilator patients wishing to leave their home are often required to transport more than 55 pounds of equipment as well as numerous accessories and multiple extra batteries. Patients are typically confined to their homes due to the logistical burden and power needs of their life-support equipment.



#### Difficult to switch between therapies

Switching between five devices to provide therapies is time consuming and uncomfortable. For example, a patient with a spinal cord injury needing to complete a cough therapy must complete three steps. First, caregivers disconnect the patient from the life support ventilator. Second, the patient is connected to the cough assist device using a separate patient circuit. Third, once the therapy is complete, the patient must reconnect to the ventilator. Switching between devices may take up to 15 minutes, require as many as two caregivers to complete, and expose the patient's airway to the risk of infection.





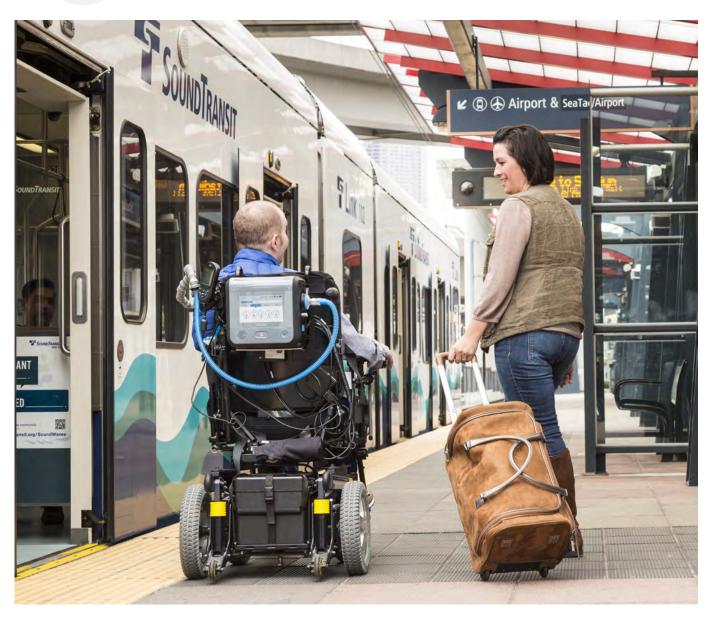


### SIMPLE

- Intuitive touchscreen
  operation
- Single integrated Ventec-One circuit
- Software enabled updates and data capture
- Quick and easy setup









#### **MOBILE**

- Five therapies in one device
- 70% lighter and smaller than five devices
- Up to 9 hours of onboard battery
- 100G impact protection with case





# **Benefits of Integrated Care**

VOCSN is Care Changing



### **CARE CHANGING**

- Switch between therapies with the touch of a button
- Uninterrupted ventilation between therapies
- Designed to reduce the risk of infection
- Up to 3x quieter







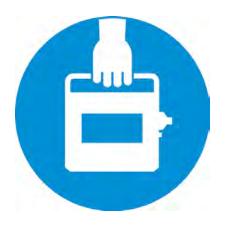
# **Benefits of Integrated Care**

VOCSN is Simple, Mobile, and Care Changing



## SIMPLE

- Ventec One-Circuit™
- Single integrated Ventec-One circuit
- Quick and easy setup



### MOBILE

- Five therapies in one device
- 70% lighter and smaller than five devices
- Up to 9 hours of on-board battery

device to learn device to clean alarm to silence device to transport device to charge power supply to carry



## **CARE CHANGING**

- Touch Button Cough<sup>™</sup>
- Uninterrupted ventilation between therapies
- Designed to reduce the risk of infection
  - circuit for all therapies touch to operate device to monitor













#### Eligibility

Any patient that qualifies for a ventilator (either invasive (E0465) or noninvasive (E0466) ventilation) and at least one of the four additional functions of the device may be eligible for VOCSN under Medicare Part B. Qualification is based on existing Medicare medical necessity coverage criteria.

#### Reimbursement

VOCSN is more than a ventilator. The Medicare Part B reimbursement rate for a multi-function ventilator is set annually by CMS according to a 5-step formula. Under the formula, payment is a monthly rental amount for the ventilator PLUS an additional average amount that takes into account the four integrated functions (oxygen, cough, suction, and nebulizer).

#### Classification

The multi-function ventilator is classified under the frequent and substantial servicing payment category and payment will be made on a continuous monthly rental basis for beneficiaries who meet the Medicare medical necessity coverage criteria for a ventilator and at least one of the four additional functions of the device.

#### Ownership

As a device requiring frequent and substantial services, the DME supplier maintains ownership of the multi-function ventilator.

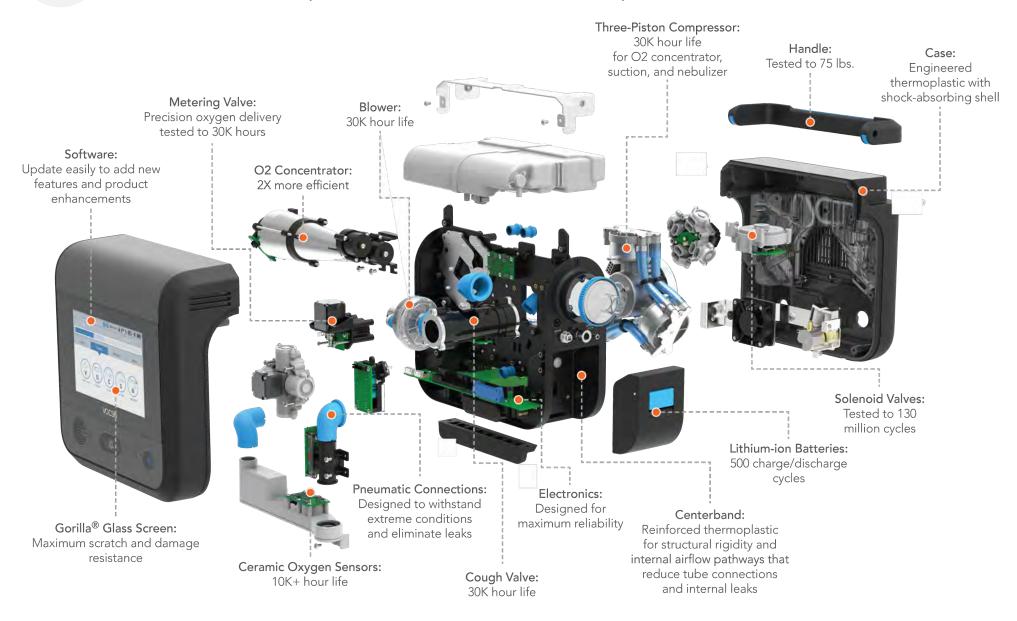
### More information at VentecLife.com/E0467





# Engineered Tough

All VOCSN components are engineered to provide lasting value







#### **Increased Patient and Caregiver Mobility**

- Today, most patients typically do not leave the house due to the burden of transporting each therapy or they leave the house without certain therapies like suction or nebulization. This puts the patient at risk and deceases patient compliance. With VOCSN, all five therapies travel with patients at all times.
- VOCSN weighs 70% less than all five devices combined. Transporting one device with one set of accessories is easier than 5 devices, 5 large power cords, different circuits, and accessories.
- Mobility may improve patient wellbeing and health outcomes (VOCSN allows patients to leave the house day to day and to travel to family reunions across the country). Patients will not be confined to bedroom/house, etc.

#### **Reduced Noise**

- Patients running both a ventilator and oxygen concentrator in their homes experience a level of noise that makes conversation and sleeping difficult.
- VOCSN therapies are typically 2 to 3 times quieter than traditional technology.

#### Easy to Use Operating System

• Touchscreen with common interface for all five therapies may reduce the risk of mistake and the level of anxiety both the patient and caregiver feel when they manage five different systems. This may help to prevent hospital readmissions.

#### Patient Empowerment

- VOCSN makes it easier to administer therapies. For example, the cough therapy now takes seconds instead of minutes using one device and one circuit rather than two separate devices with separate circuits.
- VOCSN will likely save the caregiver time. Making therapies faster and easier to use increases compliance.



#### Patient Comfort – Uninterrupted Ventilation Using One Circuit for All Therapies

- Patients that must be disconnected from a ventilator to administer other therapies typically experience a great deal of anxiety and discomfort because they are forced to disconnect from the device that is helping them to breathe. Switching a patient's circuit is labor and time intensive.
- VOCSN Patients always remain connected to a ventilator for life support and use one circuit instead of five separate patient interfaces to administer therapies.

#### **Reduced Risk of Infection**

- Switching between multiple circuits to provide different therapies opens the patient's airway and exposes the patient to increased risk of bacterial infection.
- Minimizing patient circuit disconnects has been proven to reduce the risk of infection/pneumonia.

#### **Increased Patient Compliance**

- VOCSN monitors all five therapies, including how they are used and when. This may help ensure patients actively use oxygen, cough, suction, and nebulization therapies as prescribed by their doctor. Typically, only the use of the ventilator is tracked in the home and there is no record of how patients use other therapies. VOCSN records the use over every therapy and creates a log for physicians to review.
- VOCSN makes it easier to administer each therapy. For example, during cough therapy the patient does not need to disconnect from the ventilator and the therapy takes less time. This increased convenience may improve patient compliance because the burden to complete each therapy is lessened.





#### **Reduced Power Consumption**

- VOCSN is twice as energy efficient as existing technology. VOCSN requires less power making it cheaper to power day to day. This is impactful to cash strapped families supporting ventilator patients and for facilities maintaining numerous ventilator patients.
- Reduced power needs also improve battery life. This provides patients greater range to leave their homes as well as backup power during emergencies or power outages.
- VOCSN needs one power plug instead of five. Many patient bedrooms do not have enough electrical ports to support five devices. Often, before patients can discharge from the hospital to the home, they must hire an electrician to update the electrical capacity of their rooms at home.

#### **Reduction in Oxygen Consumption & Associated Costs**

- VOCSN includes an oxygen concentrator and oxygen conserving device when connected to high pressure oxygen.
- VOCSN is the first system that allows ventilator patients to use an oxygen concentrator on the go, meaning they will not need to use an oxygen tank.
- Additionally, for patients that need more than 6 LPM or 40% FiO2 (rare in homecare), VOCSN includes an oxygen conserving device that may reduce oxygen use by up to 30%, saving money.





#### **Environmental Benefits**

• Reduced plastic and accessories consumption. VOCSN uses only one circuit rather than several tubes and patient interfaces. Five devices integrated into one.

#### **Routine Service Schedule**

• Each therapy integrated into VOCSN has been over engineered to last longer to ensure that regular service schedules for all five therapies mirror the Ventilator (approximately every 10,000 hours).

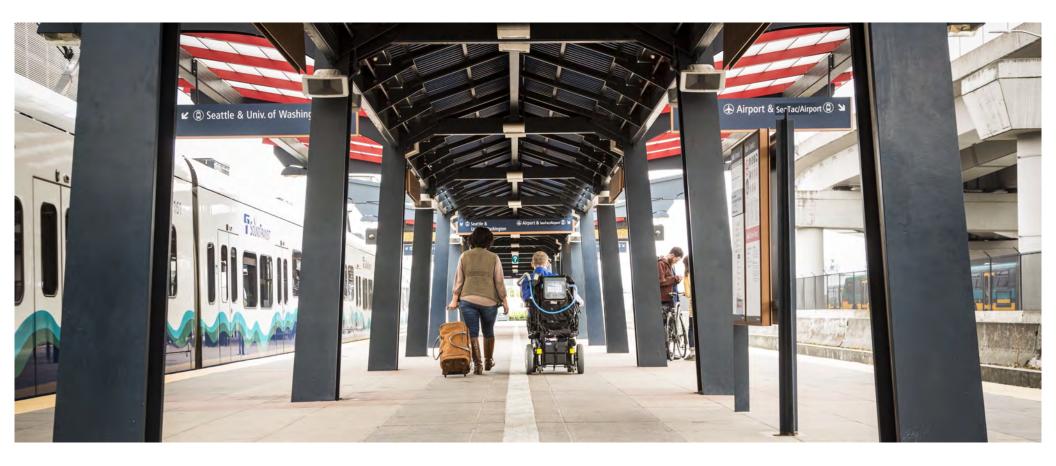
#### **Reduced Training Costs**

• VOCSN uses a simple touchscreen operating system that works across all five therapies. Thus, rather than learning five different operating systems, caregivers only need to learn one system, potentially reducing training time and costs. This helps patients get out of the hospital faster and into home care where costs are less expensive.

#### **Reduced Charting Time**

- The Therapy Tracker on VOCSN stores 7,300 events including alarms, changes to control settings, and advanced tracking of each therapy. Users can view this information in an easy-to-read chronological presentation. This may improve monitoring and patient compliance and saves time from manual charting and medical record updates.
- VOCSN creates a downloadable log for physicians to track the use of all five therapies.





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