



VITAL Ventilator

Low-complexity
Intended for emergency use



Designed & Licensed by



Jet Propulsion Laboratory
California Institute of Technology

Manufactured by

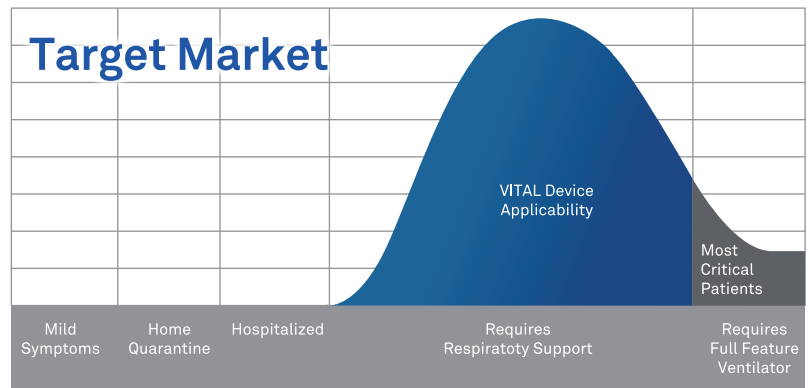


About Somnics VITAL

Somnics VITAL Ventilator is unique, versatile, and designed for patients suffering from Acute Respiratory Distress Syndrome (ARDS) caused by COVID-19.

The intended patient is generally characterized by needing low to moderate tidal volume at a high breathing rate and a wide range of positive end-expiratory pressure (PEEP). The Somnics VITAL ventilator meets the demands of those who require aggressive ventilatory support in a variety of clinical states, which may include low compliance, high resistance, hypoxia and hypercapnia. The intended patient is unable to maintain adequate/safe oxygen level with a nasal cannula or mask oxygen.

VITAL has been designed by NASA/JPL and received emergency use authorization (EUA) from the FDA to meet the acute needs of COVID-19 patients. It is easy-to-handle, user friendly and cost-effective for medical professionals.



Specification

Operating Mode	Volume-targeted, pressure limited, time-limited ventilation (Timed PLVT)
Oxygen FiO2	21~100%
Positive End-Expiratory Pressure (PEEP)	5~30 cm H2O
Peak Inspiratory Pressure (PIP)	5~60 cm H2O
Back-Up Rate	4~40 bpm
Tidal Volume	150~800 mL
Dimensions (mm)	40(L) x 25.4(W) x 31.2(H)
Weight (kg)	9.2

Key Features

- Built-in air/oxygen blender
- Alarm Monitored
- Assist-control
- Plateau (pause) pressure on demand
- Interfaces withstand patient circuits
- Low/nominal tidal volume
- Supports high PEEP
- B/V filters on exhalation are disposable.
- Minimal part count

For more information, please contact : eric.chen@somnics.com

The Story

The mission of Somnics is to provide innovative solutions for sleep and respiratory therapies and satisfy the unmet needs of patients and physicians. Somnics has its core competence in research & development, verification & validation, quality control, and volume production. Somnics received the license to commercialize and manufacture NASA's Jet Propulsion Laboratory Vital Ventilator, which received the Emergency Use Authorization (EUA) from the Food and Drug Administration (FDA).

SOMNICS

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