



# SPIRITUS MEDICAL

a STARK INDUSTRIES LLC Company

## THE NASA-DESIGNED VENTILATOR

The Spiritus Vitality is a low-cost versatile ventilator designed by NASA's Jet Propulsion Laboratory & Made in the USA.

↓\$ **Low Cost:** <\$10k price (excluding shipping and insurance)

☑ **Approved:** Has received FDA emergency use authorization (EUA) for use in patients requiring mechanical ventilation.

⚙ **Unconstrained:** Built using off-the-shelf, domestically sourced, readily available parts not limited by the surging demand for ventilator components.

🛡 **Global License:** SPIRITUS MEDICAL has a non-exclusive worldwide license from NASA JPL/Caltech to manufacture and sell the NASA-designed ventilator.



## WHY THE SPIRITUS VITALITY?

This high-pressure ventilator was designed to use 1/7<sup>th</sup> the number of parts of a traditional ventilator, relying on parts already available in the supply chains. The parts do not compete with the needs of existing ventilator manufacturing.

The Spiritus Vitality offers a simpler & more affordable option for treating critical patients. It has the capability to handle greater than 80-90% of all ventilator needs while freeing up the more expensive high-end ventilators for those with the most severe ventilator needs.

The flexibility of the Spiritus Vitality allows for modification to be used in field hospitals & the setup and operation are extremely user-friendly.

Functions & Key Features: Includes numerous control parameters, audible alarms, display parameters, and ventilator settings.

## KEY SPECS

Base Weight	22 lbs
Dimensions	11.8" x 11.8" x 9.8"
Max Airway Pressure	50 cmH2O
Method of Triggering	Pre-set Rate or Assessed Breaths
Inspiratory Flow Range	70 L/min
Alarms	Audible alarms
AC Power Adaptor*	120/220V, 50/60Hz, 2A
Typical Max Current	2 amps
FiO2	21-100%
PEEP Alarm	5-35 cmH2O
Tidal Volume	150-800 mL
Back-Up Rate	4-40 bpm
Pinsp Alarm	Up to 35 cmH2O over PEEP
I Time Limit	0.1-3.0 sec
Respiratory Rate	5-50 bpm
Mode	Single mode, volume targeted, pressure limited, time limited assist/control mechanical ventilation

\*Compatible with all global standard electrical systems

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