

# Vyairé Product Solutions for Critical Respiratory Conditions Related to COVID-19

The largest company in the global healthcare ecosystem fully dedicated to respiratory care, Vyairé Medical manufactures more than 27,000 unique products for the diagnosis, treatment and monitoring of respiratory conditions that span the continuum of care from ventilation to airway management to respiratory diagnostics to operative care.

In January 2020, in response to the coronavirus pandemic, Vyairé accelerated the production and delivery of critically needed ventilators and associated equipment to help frontline responders and health systems manage and treat critical conditions due to COVID-19.

## Key Products

### Mechanical Ventilation/High Flow Oxygen Therapy

High flow oxygen therapy is a form of respiratory support where oxygen, often in conjunction with compressed air and humidification, is delivered to a patient at rates of flow higher than that delivered traditionally in oxygen therapy. High flow oxygen therapy is commonly used on patients with acute respiratory failure in the hospital system.



#### BELLAVISTA™ 1000E VENTILATOR

The bellavista™ 1000e is a full-spectrum ventilator that offers advanced features, including an adaptive ventilation mode and high flow oxygen therapy that improves the oxygenation of patients while enhancing patient comfort. Its Lung Recruitment Tool provides an automated recruitment maneuver that is reliable and reproducible. In addition, its synchrony tools ensure patient synchrony with auto.sync, auto.rise and auto.leak, and SettingAssist foresees all ventilation settings with an easy-to-use display.

### Mechanical Ventilation



#### BELLAVISTA™ 1000 VENTILATOR

The bellavista™ 1000 ventilator offers adult, pediatric and neonatal support with a powerful turbine, highly configurable user interface and lung protective features. Intended to support daily challenges across care settings, this ventilator was designed with advanced algorithms to treat patients with respiratory distress.



#### LTV™ and LTV2™ SERIES VENTILATOR

The LTV2 lightweight, slim profile design with hot-swappable batteries provides the necessary tools to meet the demands of patients on the move that weigh at least 10 kg. The LTV2 has been authorized by the FDA under an emergency use authorization to provide continuous or intermittent ventilatory support for the care of individuals who require mechanical ventilation.

## Mechanical Ventilation/Patient Resuscitation

Mechanical ventilation is a life support treatment. A mechanical ventilator is a machine that helps people breathe when they are not able to breathe enough on their own. In the event of acute respiratory failure, high frequency oscillatory ventilation (HFOV) can reduce mortality and treatment failure.



### 3100A/B HFOV VENTILATORS

The 3100 series High Frequency Oscillatory Ventilators (HFOV) are proven for intervening in treating respiratory failure in neonates and ARDS in pediatric and adult patients. Using lung protective tools, you can apply continuous distending pressure and superimpose minimal pressure and volume swings to inflate the lung, and avoid respiratory failure. Published clinical studies demonstrate the 3100 series ventilators help enhance patient care for critically injured patients.



### AVEA™ CVS VENTILATION SYSTEM

The Avea™ CVS is a comprehensive ventilation system designed for clinicians in the acute care environment, which features a Respiratory Knowledge Portal that receives and processes data to help clinicians improve respiratory care processes.



### VELA™ VENTILATOR

The VELA™ Ventilator is a full-function invasive and noninvasive ventilator to support patients across the continuum of care. Its turbine technology operates independently of air sources for greater flexibility.

## Consumables for Ventilators

Vyaire Medical has a portfolio of consumables for various clinical situations and applications, tested and approved with the use of our ventilators, including circuits, filters, water traps, blenders, and other accessories to streamline operation:

bellavista™ 1000 consumables

Active Humidification Circuits

Filters

3100 consumables

AirLife™ Non-Heated Circuits

- 1 Rubenfeld G, Caldwell E, Peabody E, Weaver J, et al. Incidence and outcomes of acute lung injury N Engl J Med. 2005;353(16):1685.
- 2 Villar J, Blanco J, Anon J, Santos-Bouza A, et al. The ALIEN study: incidence and outcome of acute respiratory distress syndrome in the era of lung protective ventilation. Intensive Care Med. 2011;37:1932–1941.
- 3 Ferguson N, Cook D, Guyatt G, et al. High-frequency oscillation in early acute respiratory distress syndrome. N Engl J Med. 2013;368(9):795–805. doi: 10.1056/NEJMoa1215554.
- 4 Johnson J, Bachman T. Refining and validating a risk assessment tool for HFOV rescue of ARDS patients. Respiratory Therapy. 2007;2(2):42–47.
- 5 Derdak S, Mehta S, Stewart T, et al. High-frequency oscillatory ventilation for acute respiratory distress syndrome in adults: a randomized, controlled trial. Am J Respir Crit Care. 2002;166(6):801–8.
- 6 Cartotto, R, Ellis, S, Gomez, M, Cooper A, Smith T, et al. High frequency oscillatory ventilation in burn patients with the acute respiratory distress syndrome. Burns. 2004;30:453–463.
- 7 Sud S, Sud M, O’Friedrich J, et al. High frequency oscillation in patients with acute lung injury and acute respiratory distress syndrome (ARDS): systematic review and meta-analysis. BMJ. 2010;18;340:c2327.