



The Vyaire Avea CVS is a ventilator that is used in acute care environments for patients ranging from neonates to adults. The Avea CVS offers a dynamic range of breathing gas delivery, with a new version of user interface module. This can maximize the flexibility of the ventilation system and customize a solution for each patient. The flat-panel LCD Touch screen makes it easy to make changes in the settings and operating parameters. The Avea CVS operates on a Servo-controlled, software-driven ventilation system that when mixed with the gas delivery system, can improve the patient's inhalation and exhalation.

Features

- Neonatal, Pediatric, and adult care compatible.
- Artificial airway compensation.
- 24-hour trending with custom histograms.
- Super VGA color-graphics.
- User-configurable monitored parameters.
- Accurate volume delivery.
- Improved synchrony and comfort.



Specifications

Dimensions (Pneumatic Module)

Height: 10.5" (26.7 cm)

Width: 16.75" (43.2 cm)

Depth: 16" (40.6 cm)

Dimensions (User Interface Module)

Height: 13.75" (35 cm)

Width: 16.25" (43.2 cm)

Depth: 2.5" (6.4 cm)

Weight

Ventilator (Including User Interface Module): 83 lbs (37.6 kg)

Ventilator and Compressor (Internal): 90 lbs (40.8 kg)

Battery Power

1 hr of ventilator use on internal battery (*standard*) or 30 minutes ventilator and compressor

4 hr of ventilator use on external battery or 2 hr ventilator and compressor

Display

Super VGA Color Graphics

Viewable Size (Diagonal): 12.1" (30.7 cm)

Resolution: 800 x 600

Modes

Mode Type: A/C, SIMV, CPAP/PSV, NPPV, nCPAP/IMV

Breath Type: APRV/BiPhasic, Volume, Pressure, TCPL, PRVC, Volume Guarantee

Apnea Backup: Volume, Pressure, TCPL

Primary Settings

Rate: 1–150 bpm (*neonatal, pediatric*), 1–120 bpm (*adult*)

Tidal Volume: 2.0 mL–2.5 L

Inspiratory Pressure: 0–80 cmH₂O (*neonatal*), 0–90 cmH₂O (*adult, pediatric*)

Peak Flow: 0.4–150 L/min

Inspiratory Time: 0.15–5.0 sec

Pressure Support Ventilation (PSV): 0–80 cmH₂O (*neonatal*), 0–90 cmH₂O (*adult, pediatric*)

PEEP: 0–50 cmH₂O

Flow Trigger: 0.1–20 L/min

O2: 21–100%

Pressure High (in APRV/BiPhasic mode): 0–90 cmH₂O

Time High (in APRV/BiPhasic mode): 0.2–30 sec

Time Low (in APRV/BiPhasic mode): 0.2–30 sec

Pressure Low (in APRV/BiPhasic mode): 0–45 cmH₂O



