

Critical Care Ventilators

While these respiratory devices may appear unfamiliar, these machines are capable for critical care ventilation and ICUlevel monitoring. Please reach out to respiratory care with further questions on operating these machines.



Drager Evita/Evita XL

- Modes: IPPV, IPPVAssist/CMV, CMVAssist SIMV, SIMVPsupp – MMV, MMVPsupp – BIPAP, BIPAP ASB, BIPAP1 Assist / PCV+, PCV+Psupp, PCV+Assist - APRV - CPAP, CPAPASB / CPAP/Psupp, CPAP/Psupp – ILV
- Pressure/Flow/Volume waveforms
- Flow/Volume + Pressure/Volume loops

Modes: A/C, SIMV, PS, Bilevel, APRV

Plateau Pressure Monitoring

Software: Optimal PEEP,

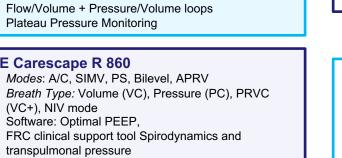
transpulmonal pressure

PEEP Titration and Vd/Vtt

GE Carescape R 860

(VC+), NIV mode

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Puritan Bennett PB 840

- Modes: A/C, SIMV, PS, Bilevel
- Breath Type: Volume (VC), Pressure (PC), PRVC (VC+), NIV mode
- Inspiratory/Expiratory hold functions for Pplat and Intrinsic PEEP monitoring
- Pressure/Flow/Volume waveforms
- Flow/Volume + Pressure/Volume loops

Servo I/Servo S/Servo U

- Modes: A/C, SIMV, PS, Bilevel
- Breath Type: Volume (VC), Pressure (PC), PRVC (Similar to VC+), NIV mode
- Inspiratory/Expiratory hold functions for Pplat and Intrinsic PEEP monitoring
- Pressure/Flow/Volume waveforms
- Flow/Volume + Pressure/Volume loops
 - Servo U is a touchscreen device



Nihon Koden NKV-550

- Indicated for continuous ventilation
- Mode: Assisted/Control Mandatory Ventilation • (A/CMV), Synchronized Intermittent Mandatory Ventilation (SIMV) or Spontaneous Ventilation (SPONT)

Up to 4 waveforms and loops can be displayed

- Lung Protection software
- PEEP recruitment software



Puritan Bennett PB 980

- Modes: A/C, SIMV, PS, Bilevel
- Breath Type: Volume (VC), Pressure (PC), PRVC (VC+), NIV Mode
- Same as PB 840 with additional features: multiple graph views, adjustable patient data parameters
- Vt/IBW monitoring

Vvair Avea

- Modes: A/C, SIMV, PS
- Breath Types: VC, PC, PRVC, APRV (Bilevel)
- Pressure/Volume waveforms
 - Flow/Volume loops



Vvair Vela

- Modes: A/C, SIMV, PS
- Breath Types: VC, PC, PRVC, APRV (Bilevel)
- Pressure/Volume waveforms •
- Flow/Volume loops



Critical Care Capable Ventilators

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Mount Sinai

Drager Carina

- Ideal for chronic ventilator patients
- Can be used in critical care setting on patients
 - with minimal ventilator requirements



GE Aisys CS², GE Avance, GE Avance CS², GE Aisys Carestation, GE Carestation 650

- Anesthesia machines
- Mode: SIMV-PCVG
- Aisys CS² is the highest acuity model
- Monitors vary:
- B650: critical care level
- B450: can be used for critical care monitoring, but there are limitations (3 leads instead of 5)
- Carestation 650 is only at MSQ

GE Aestiva 3000 Carestation

- Similar to GE models above except for mode
- Modes: PC, VC, SIMV, PSV Pro
- Monitors vary:
 - B650: critical care level
 - B450: can be used for critical care monitoring, but there are limitations



Dräger Fabius GS/GS Premium Dräger Tiro

- Anesthesia machines
- Mode: SIMV + PCIMV
- Monitors vary:
 - Philips MP-50, MP-70, or MP-90
- Both are critical care level

LTV 1000, LTV 1200

- Ideal for chronic ventilator patients
- Can be used in critical care setting on patients with minimal ventilator requirements
- Modes: A/C, Spontaneous
- Breath type: PC, VC
- Lacks graphics and waveforms
- Only displays numerical data
- LTV 1000: PEEP valve must be added

Versamed iVent

- Can be utilized as a critical care vent with limited settings options
- Modes: A/C, SIMV, Spontaneous
- Breath Type: VC, PC, PS
- Adaptive flow and I-time
- Waveform and loops available
- Audible and visual alarms
- MRI Conditional

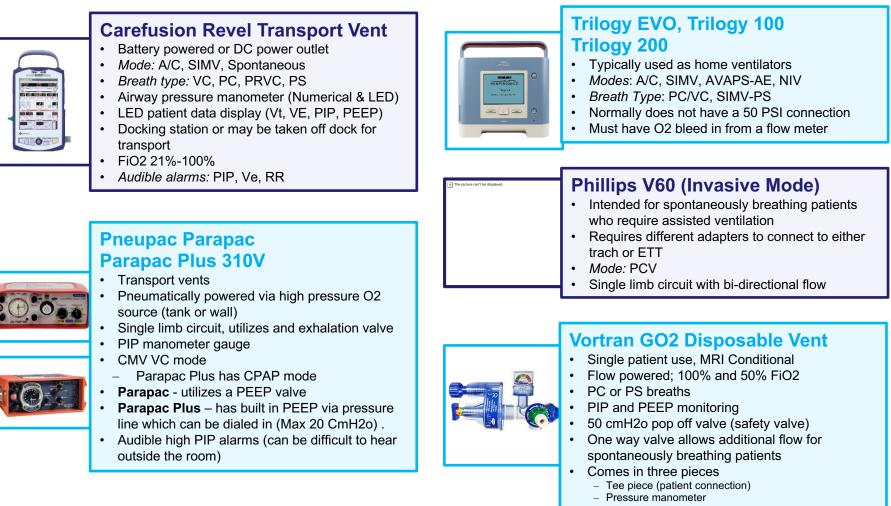




Sub-Acute Ventilators

Ideally, these ventilators are meant for patients who are chronic ventilator patients or patients with lower ventilator requirements (PEEP < 8 CmH2O, FiO2 < 50%, Stable PIP). These ventilators may be used in the acute care settings however have **limited monitoring capabilities** (no graphics, non streaming, does not have external alarm capabilities.

Please reach out to respiratory care with any further questions on operating these machines.



Updated March 28, 2020

- Modulator (2 dials, pressure and respiratory rate)