

CAE SimEquip Ventilator

Technical Specifications
Standard Equipment (To be used with adult CAE Maestro patient simulators as an add-on)
Ventilator cart
Medical attachments (breathing circuit with mask and tracheal tube, SpO2 probe, CO2 sample line, O2 hose)
Learner tablet
All-in-one monitor
SimEquip Ventilator software and license
Electronic user guide
Optional Equipment
Instructor Standalone kit: router, instructor tablet, CAE Maestro with physiology software and license (required for standalone configuration)
Additional Controls
Leak, breathing-circuit disconnection
Key Features
Full range of typically monitored values
Full range of operator-adjustable parameters for each mode of ventilation common to conventional hospital ventilators
Adjustable screen layout, alarms and other settings
Provides experiential learning skills required to manage and monitor ventilation of a patient, and troubleshoot ventilator issues
17 alarms, 3 loops (pressure volume, pressure flow, volume flow), 39 numerics, 4 views, 6 waveforms (pressure, flow, volume, Edi, SpO ₂ , CO ₂)
Maneuvers: Inspiratory hold, expiratory hold
Ventilation Modes
Volume-controlled ventilation (VCV): VT, PEEP, Flow Trigger, RR, Tpause, Ti rise, I:E, FiO ₂
Pressure-controlled ventilation (PCV): Pi, PEEP, Flow Trigger, RR, Ti rise, I:E, FiO ₂
Continuous positive airway pressure + pressure support (CPAP+PS): PEEP, ΔPsupp, Flow Trigger, Ti rise, End Inspiration %, FiO ₂ , Tapnea, Pi backup, RR backup, I:E backup
Volume support ventilation (VSV): PEEP, Flow Trigger, VT, Ti rise, End Inspiration %, FiO ₂ , Tapnea, VT backup, RR backup, I:E backup
Neurally adjusted ventilatory assist (NAVA): PEEP, Edi Trigger, Flow Trigger, NAVA Level, FiO ₂ , Tapnea, Pi backup, RR backup, I:E backup
Synchronized intermittent-mandatory ventilation volume control (SIMV VC): PEEP, ΔPsupp, Flow Trigger, VT, RR, Tpause, Ti rise, I:E, End Inspiration %, FiO ₂

CAE SimEquip Anesthesia

Technical Specifications
Standard Equipment (To be used with adult CAE Maestro patient simulators as an add-on)

Anesthesia cart
Medical attachments (breathing circuit with mask and tracheal tube, SpO ₂ probe, CO ₂ sample line, O ₂ hose, N ₂ O hose, medical air hose, 3-lead ECG cables, IBP catheter, NIBP cuff, temperature probe)
2 monitors
SimEquip Anesthesia software and license
Electronic user guide
Optional Equipment
Instructor Standalone kit: router, instructor tablet, CAE Maestro with physiology software and license (required for standalone configuration)
Simulated Anesthetic Agents
Isoflurane
Sevoflurane
Desflurane
Additional Controls
O ₂ flush valve
ACGO valve
View soda lime canister control
Leak, breathing-circuit disconnection
Key Features
Simulates delivery of multiple anesthetic agents, with realistic responses
Simulates interaction of all anesthesia machine controls, including: APL valve, manual ventilation switch, rebreather bag (inspiration), anesthetic agent vaporizers (Isoflurane, Sevoflurane, Desflurane), gas flow dials (O ₂ , N ₂ O, AIR)
Adjustable screen layout, alarms and other settings
36 alarms, 4 gauges, 3 loops, 51 numerics, 3 views, 5 waveforms
Full range of operator-adjustable parameters for each ventilation mode
Ventilation Modes
Volume-controlled ventilation (VCV): PEEP, Flow Trigger, VT, RR, Tpause, Ti rise, I:E
Pressure-controlled ventilation (PCV): PEEP, Pi, Flow Trigger, RR, Ti rise, I:E
Continuous positive airway pressure + Pressure support (CPAP+PS): PEEP, ΔPsupp, Flow Trigger, Ti rise, Tapnea, Pi backup, RR backup, I:E backup
Synchronized intermittent-mandatory ventilation volume control (SIMV VC): PEEP, ΔPsupp, Flow Trigger, VT, RR, Tpause, Ti rise, I:E

CAE SimEquip Transport Ventilator

Technical Specifications
Standard Equipment (To be used with adult CAE Maestro patient simulators as an add-on)
Transport ventilator carry bag
Medical attachments (breathing circuit with mask and tracheal tube, SpO ₂ probe, CO ₂ sample line, O ₂ hose)
Student tablet

SimEquip Transport Ventilator software and license
Electronic user guide
Optional Equipment
Instructor Standalone kit: router, instructor tablet, CAE Maestro with physiology software and license (required for standalone configuration)
Key Features
Full range of typically monitored values
Simulates ventilation of a simulated patient being transported
Adjustable screen layout, alarms and other settings
Provides experiential learning skills required to configure a transport ventilator, manage and monitor ventilation of a simulated patient being transported, and troubleshoot ventilator issues
17 alarms, 3 loops, 23 numerics, 3 views, 5 waveforms
Ventilation Modes
Full range of operator-adjustable parameters for each mode of ventilation:
Volume-controlled ventilation (VCV): VT, PEEP, Flow Trigger, RR, Tpause, Ti rise, I:E, FiO ₂
Pressure-controlled ventilation (PCV): Pi, PEEP, ΔPsupp, Flow Trigger, RR, Ti rise, I:E, FiO ₂
Continuous positive airway pressure (CPAP+PSV): PEEP, ΔPsupp, Flow Trigger, Ti rise, End Inspiration %, FiO ₂ , Tapnea, Pi backup, RR backup, I:E backup
Volume support ventilation (VSV): PEEP, Flow Trigger, VT, Ti rise, End Inspiration %, FiO ₂ , Tapnea, VT backup, RR backup, I:E backup
Synchronized intermittent-mandatory ventilation (SIMV): PEEP, ΔPsupp, Flow Trigger, VT, RR, Tpause, Ti rise, I:E, End Inspiration %, FiO ₂

CAE SimEquip Defibrillator

Technical Specifications
Standard Equipment (To be used with adult CAE Maestro patient simulators as an add-on)
Defibrillator carry bag
Therapy pads
3-lead ECG cables
Learner tablet
Software (monitor defibrillator and AED) and license
Electronic user guide
Optional Equipment
Instructor Standalone kit: router, instructor tablet, CAE Maestro with physiology software and license (required for standalone configuration)
Medical attachments (12-lead ECG cables, temperature probe, CO ₂ sample line, SpO ₂ probe, NIBP cuff, IBP catheter)
Key Features
Full range of typically monitored values common to defibrillators and AEDs (HR, SpO ₂ , RR, ABP, and more)
Simulates electrical therapy (defibrillation, cardioversion, pacing), with realistic responses

Adjustable alarms and other settings

Provides experiential learning skills required to deliver electrical therapy, configure a defibrillator or manage defibrillation of a patient (e.g., responding to alarms, adjusting layout based on patient mode and/or operator preference)

Pads, ECG I, II, III, aVR, aVL, aVf, V1, V2, V3, V4, V5, V6, CO₂, ABP, SpO₂