

Can you use the E100M Ventilator for noninvasive “BiPAP-style” ventilation?

Yes

Material Required

- E100M Ventilator
- **Passive humidification (choose one below)**
 - HCH – Hygroscopic Condensing Humidifier
 - HME – Heat Moisture Exchanger
 - Cold, pass-over water-bath humidifier (humidifier with water but no heat)
- E100M breathing circuit
- Non-vented mask with a head gear

Ventilation Settings for Pressure Targeted, “BiPAP-style” Ventilation:

- A/CMV Mode

BiPAP-Style Device	E100M Ventilator
P-high	Set Plimit Control
T-high	Set Inspiratory Time
P-low	Set PEEP/CPAP
T-low	Set f (Frequency) Set \dot{V} (flow) to meet patient need Switch SPONT \dot{V} ON Activate ATC or Set Trigger manually

Alarm Settings

- **High/Low Paw Alarms**

✓ Activate Auto-Set (AS) or manually set alarm limits to bracket target P-High

- CPAP (SPONT) Mode

- On E100M: use SPONT+APENA A/CMV mode
- Adjust SPONT Flow, PEEP/CPAP and Time Limited Demand Flow to appropriate levels.

Alarm Settings

- **High Paw Alarm**

✓ Activate Auto-Set (AS) or manually set alarm limits to maximum acceptable Paw.

- **Apnea Alarm**

✓ Set Apnea Alarm to 15 or 30 seconds.

- **Also set A/CMV ventilation settings** because Apnea Back up Ventilation provides supplemental ventilation at the A/CMV ventilation settings when the Apnea Alarm is violated in SPONT+APENA A/CMV mode.

Advantages of using the Newport E100M Ventilator to provide noninvasive ventilation:

- SPONT flow stabilizes baseline pressure.
- Time Limited Demand Flow assists with spontaneous breathing.
- Breathing circuit easily accommodates a simple anesthesia-style mask.