

### Can you use the e500 Ventilator for noninvasive “BiPAP-style” ventilation?

\*Such as Respironics BiPAP or Resmed VPAP

#### Yes

##### Material Required

- e500 Ventilator – Turn ON Noninvasive feature via GDM set up screen
- 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)
- e500 breathing circuit
- Non-vented mask with a head gear

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

##### A/CMV Mode

BiPAP-Style Device	e500 Wave Ventilator
P-high (IPAP)	Set Pressure Control
T-high	Set Inspiratory Time
P-low (EPAP)	Set PEEP
T-low	Set Rate Set Trigger Sensitivity

##### CPAP (SPONT) Mode

BiPAP-Style Device	e500 Wave Ventilator
P-high	Set Pressure Support (above PEEP)
P-low	Set PEEP Set Trigger Sensitivity

##### Alarm Settings

- High/Low Paw Alarms (High only in SPONT mode)
  - A/CMV: Set alarm limits to bracket Pressure Control setting.
  - SPONT: Set High Alarm Limit just above Pressure target (PEEP+Pressure Support)
- Set High/Low  $\dot{V}_E$  (Expiratory Minute Volume) Alarm limits to bracket  $\dot{V}_E$ 
  - Back Up Ventilation provides supplemental ventilation when the Low  $\dot{V}_E$  alarm is violated in any mode.

##### Advantages of using the Newport e500 Wave Ventilator to provide noninvasive ventilation:

- With NIV feature ON, Automatic Leak Compensation more effectively stabilizes baseline pressure for more reliable triggering when a leak is present.
- Automatic Slope/Rise adjusts flow/pressure rise to meet the needs of changing patient inspiratory demand and changing leak.
- FlexCycle (automatic Expiratory Threshold) provides timely breath cycling-off in spite of leaks that often disrupt end-inspiratory synchrony with Pressure Support.
- Breathing circuit easily accommodates a simple anesthesia-style mask.