

Can you use the HT50 Ventilator for noninvasive *“BiPAP-style” ventilation?

*Such as Respronics BiPAP or Resmed VPAP

Yes

Material Required

- HT50 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)
- HT50 breathing circuit
- Non-vented mask with a head gear

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

- **A/CMV Mode (Recommended)**

BiPAP-Style Device	HT50 Ventilator
P-high (IPAP)	Set Pressure Control
T-high	Set Inspiratory Time
P-low (EPAP)	Set PEEP
T-low	Set f (Frequency)

- **CPAP (SPONT) Mode**

BiPAP-Style Device	HT50 Ventilator
P-high	Set Pressure Support (above PEEP)
P-low	Set PEEP

- **Back Up ventilation provides supplemental ventilation when the Low \dot{V}_I Alarm is violated in any mode.**

Alarm Settings

- High/Low Paw Alarm
 - Set alarm limits to bracket target P-high
- Set High/Low \dot{V}_I (Inspiratory Minute Volume) Alarm
 - Set alarm limits to bracket monitored \dot{V}_I

Advantages of using the Newport HT50 Ventilator to provide noninvasive ventilation:

- When PEEP is on, Bias flow stabilizes baseline pressure for more effective triggering when a leak is present.
- Pressure Control or Pressure Support assist with spontaneous breathing.
- Pressure Control can enhance ventilation for weaker patients.
- Flow/pressure rise adjusts to meet the needs of changing patient inspiratory demand and changing leak.
- Breathing circuit easily accommodates a simple anesthesia-style mask.