

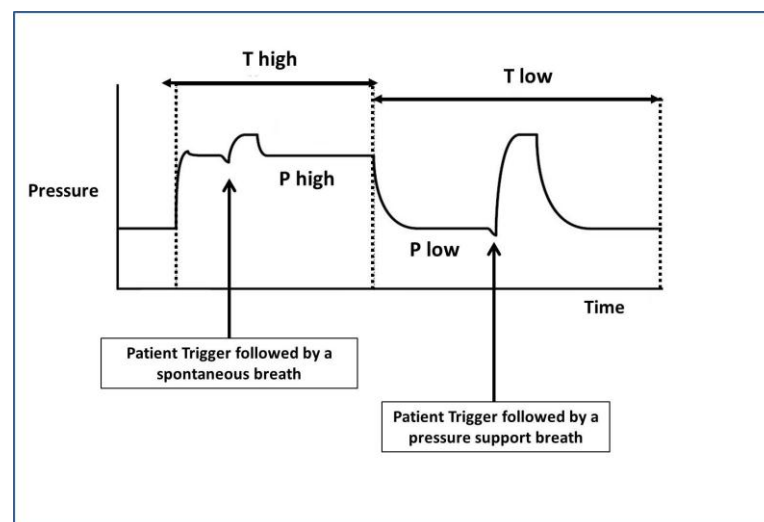


## B-LEV Mode

# Bi-Phasic Ventilation

### Background

Bi-Level is a time cycled pressure mode. The ventilator cycles between two different baseline pressures based on time. In this mode the patient is allowed to breathe spontaneously at both the high and low pressure baselines. Pressure support can be added during the low pressure baseline period to improve comfort.



B-LEV waveform diagram showing the spontaneous and pressure support breaths at both high and low pressure levels.

Common terminologies used for B-LEV ventilation are APRV, Bi-Level, Bi-Phasic, Duo-PAP™ (Hamilton Medical), Dual Level PEEP and inverse ratio ventilation IRV.



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## B-LEV Controls

The following controls are required for Bi-Level mode:

- **P low** – the low pressure baseline.

Range: 0 to 30 cmH<sub>2</sub>O

- **P high** – the high pressure baseline.

Range: 3 to 60 cmH<sub>2</sub>O

- **T low** – the low pressure baseline period.

Range: 0.5 to 5 sec

- **T high** – the high pressure baseline period.

Range: 1 to 15 sec

\* The T Low and T High settings provide an inverse I:E ratio of up to 30:1

- **PSV** – the pressure support level.

Range: 0 to 60 cmH<sub>2</sub>O

P <sub>trig</sub> -2.0	P Low 0	PSV above peep 0	T Low 2.5	T high 1.0	P High 10
Screen ALARMS	%O <sub>2</sub> 21%	100% O <sub>2</sub> OFF	Nebulizer OFF	B-LEV	PCV

Parameters screen with B-LEV controls