



Name: Bi-Level Positive Airway Pressure Unit (BiPAP)

Purpose

Administers continuous positive airway pressure to spontaneously breathing non-intubated adult or pediatric patients who require short-term mechanical ventilation. Cases include, but not limited to mild COVID-19 respiratory failure, COPD, and Sleep Apnea.

General Description


Auto-adjusting Line-powered, non-invasive, triple mode (Spontaneous, Timed, and ST) BiLevel device for treating sleep apnea.

Technical Specifications

Category	Specification	Compliance		If non-compliant, state your specs
		Y	N	
Mobility/Portability	Portable, light weight (Not to exceed 2 Kg including humidifier)			
Compressor	Built-in			
Power supply	Line (AC) with auxiliary external battery input (DC)			
Inputs	Oxygen/Medical air			
Outputs (minimum values $\pm 10\%$)	IPAP: 4 to 40 cm H ₂ O (Inspiratory) @ 2 cmH ₂ O increments			
	EPAP: 4 – 20 cm H ₂ O (Expiratory) @ 1 cm H ₂ O increments			
	CPAP/PEEP: 5 to 25 cm H ₂ O			
	I-time (inspiratory time): 0.30 to 3.00 sec			
	Ramp Time: Off, 5 to 45 min			
	Respiratory rate: 5 to 50 BPM			
Display/Measurements	Screen: 3.5" or larger LCD or LED, preferably touch screen			
	FiO ₂ : 21 to 100 %.			



Category	Specification	Compliance		If non-compliant, state your specs
		Y	N	
	Inspiratory, Expiratory, and Mean airway (MAP) pressures			
	Tidal volume			
	Inspiratory and Expiratory time			
Alarms (Audiovisual)	Air leakage			
	Apnea			
	Breathing circuit disconnect			
	Breathing circuit occlusion			
	High/Low Temperature			
	High/Low Pressure			
	Power Failure			
Data Storage	Built-in (On-board): 2 GB or higher			
	SD card: 8 GB or higher			
Other	Automatic leakage and altitude compensation			
Humidifier	Built-in, servo controlled heated			
Noise level	≤ 25 dBA (very quiet operation to avoid sleep disturbance)			
Consumables	All necessary consumables (Qty: 100 each) including bacterial filter			
Accessories/ Reusables (Qty: 5 each)	Nasal mask, adult (with tubing/connectors)			
	Nasal mask, pediatric (with tubing/connectors)			
	Face mask, adult (with tubing/connectors)			
	Face mask, pediatric (with tubing/connectors)			

Category	Specification	Compliance		If non-compliant, state your specs
		Y	N	
Similar to:	ResMed AirCurve 10	<div>This Area is for Technical Evaluation by Consultant</div>		
Picture				

CRESCENT SPECS