

# ***BPL Respiratory solutions***

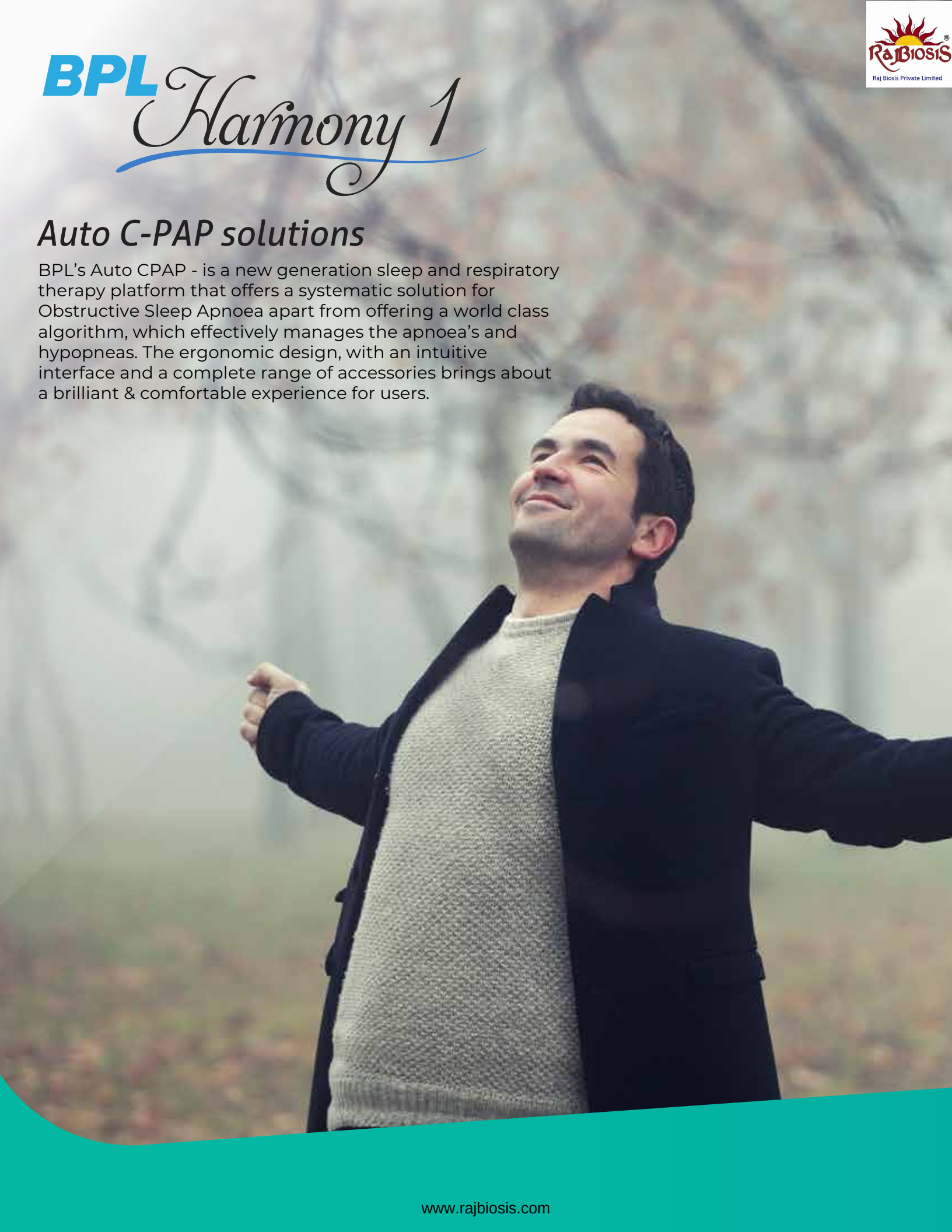
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**BPL**

# Harmony 1

## Auto C-PAP solutions

BPL's Auto CPAP - is a new generation sleep and respiratory therapy platform that offers a systematic solution for Obstructive Sleep Apnoea apart from offering a world class algorithm, which effectively manages the apnoea's and hypopneas. The ergonomic design, with an intuitive interface and a complete range of accessories brings about a brilliant & comfortable experience for users.

## Effective Treatment in Obstructive Sleep Apnea with BPL Harmony 1 Auto CPAP solution

### Effective Therapy

- Advanced Algorithm
- Data management  
7 days of detailed data and 30 days of therapy data
- Complete Range of Comfortable Face Masks
- Quiet Therapy



### Easy to use

- Compact and Smart
- Auto On/Off
- Intuitive user interface with an easy to read angled screen



### Greater Comfort

- Smaller footprint
- Ramp & Auto Ramp
- Fully Integrated Humidifier
- Intelligent Pressure Release(iPR)

# BPL Harmony 1

## Quiet therapy

The new advanced flow generator enables the air to exit/flow axially. This leads to less turbulence and a quieter therapy, ensuring that the patients & their bed partners are not disturbed during their sleep.

## Enhanced Clinical algorithm

BPL Harmony1's intelligent algorithm maintains the ideal pressure for patients & automatically responds to apnea, snoring and flow limitations thereby keeping the airway open and ensuring comfortable apnea free sleep for the user throughout the night.

## Intelligent Pressure Release (iPR)

BPL Harmony 1's intelligent pressure release (iPR) feature, drops the pressure upon expiration by a defined value thereby ensuring a comfortable breathing experience for the user.

## Ramp / Auto Ramp

Ramp enables therapy to begin at a minimum pressure thus making the beginning of treatment more comfortable for the patient. The pressure continues to increase with the gradual ramping up to the minimum therapy pressure within 5 - 60 min mins, coinciding with the patients sleep onset.



## Auto On/ Off

Convenient for patients as the treatment automatically starts/stops when and if the mask is taken off or put on after a break during therapy, without any external intervention.

## Data Recording

BPL Harmony 1 records up to 365 days of therapy data (Pressure, AHI, Leak, AI, HI, etc) and 7 days of breath by breath detailed data, helping patients and their doctor monitor their therapy for better prognosis

## Integrated Humidifier

Effective humidification leads to a better and comfortable sleep without the discomfort of a dry or sore throat. An integrated humidifier allows for this benefit without exponentially increasing the Auto CPAP's footprint.

## Colour Display

The colour LCD screen on BPL Harmony 1 with a push dial control knob and an easy-to-read menu lets the user use the device seamlessly, providing an unparalleled user experience.



# **BPL** *LifePAP*

## ***BPL LifePap BiPAP Solutions***

BPL Life PAP is a non-invasive ventilator (BiPAP) designed for non-dependent patients with obstructive or restrictive respiratory conditions.

Featuring BPL's volume-assurance mode – eVAPS (Efficient Volume-Assured Pressure Support) – BPL's LifePap maintains target tidal volume to suit each patient's changing needs. With S, ST and ST with AutoEPAP modes, BPL Life PAP is easy to set up and use, supported by BPL's patient management software.





## Effective treatment of OSA with the BPL LIFE PAP (BiPAP) solution

### Efficient Volume-Assured Pressure Support (eVAPS)

eVAPS or Efficient Volume Assured Pressure Support when activated, will ensure a specified constant average tidal volume "Vt" is effectively delivered. Life PAP will adjust the Pressure Support (PS) to meet the said Vt targets. During the therapy, IPAP is changed to meet the Pressure Support, adjustment demand.

### AutoEPAP

A feature only available with a few, Auto EPAP automatically addresses any upper airway obstruction that the patient may be experiencing during the course of the therapy, ensuring minimal physical interventions by family members or paramedics to address challenges of high PCO<sub>2</sub> due to such an obstruction.

### Integrated Humidifier

Effective humidification leads to a better and comfortable therapy without the discomfort of a dry or sore throat. An integrated humidifier allows for this benefit without exponentially increasing the BiPAP's footprint.

### Built-In Simplicity

The user interface on BPL LifePap NIV has been designed keeping the patients in mind. Intuitive and simple to use, easy to view with personalized patient comfort settings. The Touch screen allows for a seamless navigational experience, a feature that is not available today in most of the other BiPAP's in the market.

### A complete solution

BPL Life PAP ST with Auto EPAP modes offers all essentials operating modes for patients like CPAP, S, ST and ST with Auto EPAP. The in-built Alarms are a very useful feature for hospitals who want a state of the art NIV solutions for their patients.

# BPL LifePAP

## Quiet therapy

The new advanced flow generator enables the air to exit/ flow axially. This leads to less turbulence and a quieter therapy, ensuring that the patients & their bed partners are not disturbed during their sleep.

## Advanced algorithm

BPL LifePAP's Advanced Ventilation algorithm works in synchrony with the patient's own breathing pattern, thereby improving the patient's compliance with the therapy.

## Auto E-pap

Auto E-pap automatically addresses any upper airway obstruction that the patient may be experiencing during the course of the therapy.

## Intelligent Pressure release (iPR)

Intelligent pressure release is designed to make the therapy more comfortable by reducing the treatment pressure in the cycle process and expiration. By applying iPR, the average treatment pressure is lowered than its counterpart in normal operation.



## Auto On/ Off

Convenient for patients as the treatment automatically starts/stops when and if the mask is taken off or put on during therapy.

## Integrated Humidifier

Effective humidification leads to a better and comfortable sleep without the discomfort of a dry or sore throat.

## Simple and intuitive user interface

Simple and intuitive user interface with a personalized patient comfort settings and different modes, ensures a seamless and a worry-free therapy experience for the patient. A Touch Screen further allows for a hassle free navigational experience.

## e-VAPS (Volume Assured Pressure Support)

e-VAPS intelligently ensures the required tidal volume for patients by automatically adjusting the required pressure support





## LIFEPAP Models & Modes

| Models    | : | 25 ST with Auto EPAP | 25ST | 25S |
|-----------|---|----------------------|------|-----|
| eVAPS     | : | ✓                    | ✓    |     |
| Auto EPAP | : | ✓                    |      |     |
| ST Mode   | : | ✓                    | ✓    |     |
| S Mode    | : | ✓                    | ✓    | ✓   |
| CPAP      | : | ✓                    | ✓    | ✓   |

## Product Specifications

| Parameters                       | BPL Harmony 1 Auto CPAP                       | BPL LIFE PAP BiPAP                            |
|----------------------------------|-----------------------------------------------|-----------------------------------------------|
| Display                          | 3.5" Colour LCD Display                       | 5" Colour touch screen display                |
| Flow                             | >120 L/min                                    | >120L/min                                     |
| Safety Precautions               | Class II Type BF                              | Class II Type BF                              |
| Ingress Protection               | IP22                                          | IP22                                          |
| Air Filter Efficiency            | >75% (7-micron dust)                          |                                               |
| Pressure                         |                                               |                                               |
| Setting range                    | 4-20 cmH2O                                    | 4 -25 cmH2O                                   |
| Max Single Fault Steady Pressure | 40 cmH2O                                      | 40cm H2O                                      |
| Dynamic Pressure variation       | < 1 cmH2O                                     | <1 cmH2O                                      |
| Pressure Monitoring Accuracy     | ± (2%*full scale reading + 4%*actual reading) | ± (2%*full scale reading + 4%*actual reading) |
| Humidifier                       |                                               |                                               |
| Water Capacity                   | 290 ml (MAX Water Level)                      | 290ml (MAX Water Level)                       |
| Humidity                         | >10 mg/L BTPS (Within the set pressure range) | >10mg/L BTPS (Within the set pressure range)  |
| Noise Value                      |                                               |                                               |
| A weighted sound pressure level  | ≤28dBA (uncertainty of 2 dBA)                 | ≤28dBA (uncertainty of 2 dBA)                 |
| A weighted sound power level     | ≤36 dBA (uncertainty of 2 dBA)                | ≤36 dBA (uncertainty of 2 dBA)                |
| Dimension                        |                                               |                                               |
| Dimension                        | 222*125*122mm (L × W × H)                     | 235 × 148× 125mm (L × W × H)                  |
| Weight                           | 1.35 kg                                       | 1.55Kg                                        |
| Power                            |                                               |                                               |
| AC Power Input                   | 100~240 Vac 50/60 Hz 2.0A Max                 | 100~240Vac, 50/60Hz, 2.0A max                 |
| DC Power Input                   | 24 Vdc, 2.5A                                  | 24 Vdc, 2.5A                                  |
| Operating conditions             |                                               |                                               |
| Temperature                      | 5°C- 35°C                                     | 5°C- 35°C                                     |
| Relative Humidity                | 10% - 95% (Non condensing)                    | 10% - 95% (Non condensing)                    |
| Atmospheric Pressure             | 70kPa – 106kPa                                | 70kPa – 106kPa                                |
| Storage Conditions               |                                               |                                               |
| Temperature                      | -25°C - 70°C                                  | -25°C - 70°C                                  |
| Relative Humidity                | 5% - 95% (Non condensing)                     | 5% - 95% (Non condensing)                     |
| Atmospheric Pressure             | 70kPa – 106kPa                                | 70kPa – 106kPa                                |

## BPL Range of Accessories (CPAP & BiPAP)

|                                                                                                                                                                         |                                                                                                                                                                          |                                                                                                                                                  |                                                                                                                                     |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|
|  <p>15mm<br/>for CPAP</p> <p>BPL PART NO: 13L7H009</p> <p>Standard Air Tube 6 Feet</p> |  <p>19mm<br/>for BiPAP</p> <p>BPL PART NO: 13L7H010</p> <p>Standard Air Tube 6 Feet</p> |  <p>BPL PART NO: 13L7H007</p> <p>Heated tube</p>               |  <p>BPL PART NO: 13L7H012</p> <p>AC Adaptor</p>  |
|  <p>BPL PART NO: 13L7H001</p> <p>Nasal Mask : Small</p>                               |  <p>BPL PART NO: 13L7H003</p> <p>Nasal Mask : Medium</p>                               |  <p>BPL PART NO: 13L7H002</p> <p>Nasal Mask : Large</p>       |  <p>BPL PART NO: 13L7H032</p> <p>Air Filter</p> |
|  <p>BPL PART NO: 13L7H004</p> <p>Full Face Mask : Small</p>                          |  <p>BPL PART NO: 13L7H005</p> <p>Full Face Mask : Medium</p>                          |  <p>BPL PART NO: 13L7H006</p> <p>Full Face Mask : Large</p> |                                                                                                                                     |



[www.rajbiosis.com](http://www.rajbiosis.com)

**CERTIFIED ISO 13485 : 2016 COMPANY**

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