



## BiPAP A40 Pro allows you to automate and customize each patient's care to help your patient management be more **efficient and effective**

The Philips Respironics BiPAP A40 Pro ventilation solution gives you the ability to intuitively treat patient's suffering from chronic respiratory disease and their constantly changing therapeutic demands. By using clinically proven therapies with automated solutions, such as AVAPS, AVAPS-AE, Automated Airway Management and Auto-Trak, BiPAP A40 Pro adapts to your patient's changing conditions to provide enhanced therapy while delivering the lowest possible pressure to comfortably vent the patient.

Also, BiPAP A40 Pro creates efficiencies for your business by intuitively and automatically adjusting therapy, thereby reducing manual adjustments as well as setup times, allowing you to focus your attention where it is needed – on your patients.

### **Intuitive ventilation therapies**

- AVAPS – Automatically delivers customized care by adapting to disease progression
- Digital Auto-Trak – Contributes to the patient's synchrony and comfort, without manual adjustments to each patient's breath
- AVAPS-AE – Auto-titration mode has the proven performance of AVAPS, maintains a patient's airway and can apply an auto backup rate
- Automated Airway Management – automatically and dynamically manages a patient's upper airway – in any ventilation mode

### **Features and benefits**

- The AVAPS ventilation feature automatically provides treatment for PaCO<sub>2</sub> reduction.<sup>1</sup>
- The Automated Airway Management feature provides the ability to treat overlapping breathing syndromes in bi-level patients so that clinicians can manage OSA and hypoventilation in any noninvasive ventilation mode.
- In a pre- and post-interventional trial, AVAPS-AE provided adequate control of nocturnal hypoventilation and upper airways obstruction as well as enhancing sleep efficiency and NIV adherence.<sup>2†</sup>
- Visual leak management: colored visual indicator of the patient's total circuit leak value to better understand and manage leaks for more consistent therapy, comfort and mask fit.

<sup>1</sup>Only in BiPAP A40 Pro

<sup>2</sup>Windisch, Wolfram. "Average Volume-Assured Pressure Support in Obesity Hypoventilation." CHEST 130 (2006): 815 With respiratory insufficiency patients diagnosed with Obesity Hypoventilation Syndrome

<sup>†</sup>Murphy, Patrick, et al. "The effect of volume targeted pressure support (PS) ventilation with autotitrating expiratory positive airways pressure (EPAP) and back up rate (BUR) on sleep quality in COPD-obstructive sleep apnea (OSA) overlap syndrome." European Respiratory Journal 42.Suppl 57 (2013): P2583.

## Prescription guidelines

**Note:** Pressure units can be expressed as cmH<sub>2</sub>O or in hPa

### Ventilation pressure range:

4 to 40 cmH<sub>2</sub>O (in increments of .5 cmH<sub>2</sub>O)

EPAP: 4 to 25 cmH<sub>2</sub>O

CPAP maximum pressure: 20 cmH<sub>2</sub>O

**Ventilation modes:** CPAP, S, S/T, T, PC, AVAPS-AE\*

**Interface modality:** Noninvasive / Invasive (non-life-support)

### Ventilation features

#### AVAPS:

Target Volume 200 to 1500 ml (10 ml increments)

Max IPAP 4 to 40 cmH<sub>2</sub>O

Minimum IPAP: EPAP to 40 cmH<sub>2</sub>O

Rate: 0.5 to 5 cmH<sub>2</sub>O/min

#### Automated Airway Management:

Pressure support: minimum 0 to 36 cmH<sub>2</sub>O

EPAP max pressure: 4 to 25 cmH<sub>2</sub>O

EPAP min pressure: 4 to 25 cmH<sub>2</sub>O

#### AVAPS-AE:

Pressure support: minimum 0 to 36 cmH<sub>2</sub>O

EPAP max pressure: 4 to 25 cmH<sub>2</sub>O

EPAP min pressure: 4 to 25 cmH<sub>2</sub>O

Max pressure: 36 cmH<sub>2</sub>O

Target volume: 200 to 1500 ml (10 ml increments)

AVAPS rate: 0.5 to 5 cmH<sub>2</sub>O/min

Breath rate: Off, auto or fixed, 1 to 40 BPM

**Inspiratory time:** .5 to 3.0 seconds (1 second increments)

**Rise time:** 1 to 6 (1=100 ms to 6= 600 ms)

**Ramp length:** 5 to 45 minutes (5-minute increments)

**Flex pressure relief:** 0 to 3 (only in S-mode)

**System One resistance:** 0 (off), X1, X2, X3, X4, X5, Invasive

**Humidification:** System One heated humidification  
Heated tube humidification

**Supplemental oxygen:** Low flow up to 15 lpm (FiO<sub>2</sub> not settable)

**Breaths per minute (settable):** 0 to 40 BPM

(4 to 40 BPM in T mode, 1-breath increment)

### Triggering type options:

Auto-Trak (default), Sensitive Auto-Trak

Flow Trigger

- Flow sensitivity: 1 to 9 lpm (1-lpm increments)

- Cycle sensitivity: 10% to 90% (1% increments)

### Patient alarms (settable):

Circuit disconnection: off, 15, 60 seconds

Apnea: off, 10, 20, 30 seconds

High respiratory rate: 1 to 60 BPM (in increments of 1)

Low minute ventilation: 1 to 99 l/min (in increments of 1)

Low tidal volume (with AVAPS or AVAPS-AE mode): off or enabled

Low SpO<sub>2</sub> Alarm: default 85%, 50% to 95%

### Data management:

Care Orchestrator, Care Orchestrator Essence and EncoreAnywhere

**Oximetry:** Nonin Xpod

### Diagnostic support:

#### Remote control:

OmniLab Direct to OmniLab Advanced +

**Polygraph and polysomnograph connections:**

Direct connection to Alice PDx and Alice 6 PSGs

OmniLab connect to other PSG Systems

### Device specifications:

**Dimensions:** 22.23 cm W x 18.42 cm L x 10.80 cm H  
(8.75" W x 7.25" L x 4.25" H)

**User interface display:** 7 cm x 5.3 cm

**Weight:** approximately 2 kg (4.4 lbs)

**AC voltage source:** 100 to 240 VAC, 50/60 Hz, 1.2 A

**DC power source:** 24 VDC, 4.2 A (power supply)

12 VDC, 5.0 A (external battery)

**Sound:** < 30 dBA at 10 cmH<sub>2</sub>O

## Ordering information

### Devices

	Part Number
BiPAP A40 Pro, INTL	INX3100S19
BiPAP A40 Pro with detachable battery module (no battery), INTL	INX3100B19
BiPAP A40 Pro with heated humidifier, INTL	INX3100H19
BiPAP A40 Pro with heated tube humidifier, INTL	INX3100T19

## Accessories ordering information

Humidification (integrated)	Part number	Power management	Part number
A-Series, System One, heated humidifier, INTL	INX3H	Detachable battery module, USA/INTL	3000DMB
A-Series, System One, heated tube humidifier, INTL	INX3T	Detachable battery pack, USA/INTL	1043570
Cases	Part number	100-watt power supply	1142982
BiPAP A40 carry case	1098514	Shielded DC cable (requires fuse 1008104)	1001956
Philips RI BiPAP A40 in-use case	1098513	Universal battery kit, INTL	112945
Roll stand	Part number		
Roll stand BiPAP A-Series	1098538		

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Caution: U.S. federal law restricts these devices to sale by or on the order of a physician.

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