



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 Respiration 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 PaCO₂ reduction.¹
- 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.^{2†}
- 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.

¹Only in BiPAP A40 Pro

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

[†]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 cmH₂O or in hPa

Ventilation pressure range:

4 to 40 cmH₂O (in increments of .5 cmH₂O)

EPAP: 4 to 25 cmH₂O

CPAP maximum pressure: 20 cmH₂O

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 cmH₂O

Minimum IPAP: EPAP to 40 cmH₂O

Rate: 0.5 to 5 cmH₂O/min

Automated Airway Management:

Pressure support: minimum 0 to 36 cmH₂O

EPAP max pressure: 4 to 25 cmH₂O

EPAP min pressure: 4 to 25 cmH₂O

AVAPS-AE:

Pressure support: minimum 0 to 36 cmH₂O

EPAP max pressure: 4 to 25 cmH₂O

EPAP min pressure: 4 to 25 cmH₂O

Max pressure: 36 cmH₂O

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

AVAPS rate: 0.5 to 5 cmH₂O/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 (FiO₂ 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 SpO₂ 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 cmH₂O

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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