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VPAP™ COPD

NONINVASIVE VENTILATION

*NIV treatment specifically
for COPD patients*



VPAP COPD and H5i™ humidifier

ResMed.com

Respiratory Care Solutions
Making quality of care easy

VPAP COPD



A new noninvasive ventilation solution for COPD

NIV is increasingly used in treating patients with chronic obstructive pulmonary disease (COPD). Clinical studies show that NIV treatment can improve outcomes—leading to better quality of life, helping slow the progression of the condition and managing it post-discharge.¹⁻² Specifically, NIV has been shown to reduce the recurrence of acute hypercapnic respiratory failure following an initial event by up to two-thirds in the first 30 days following the event.³

Adding oxygen to NIV can potentially add tubing weight and leak to mask shifting. Setting up NIV and oxygen therapy can also take more time due to patient complexity.

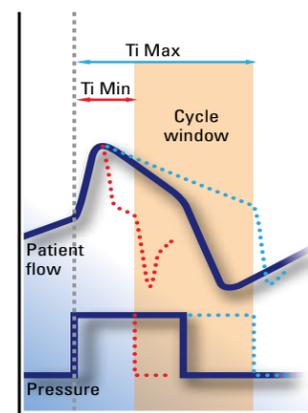
VPAP COPD helps overcome these challenges:

- Customized therapy settings make it easy to initiate therapy.
- Integrated oxygen entrainment support provides oxygen and warmed, humidified air in one line.
- ResMed EasyCare Online monitoring is ideal for post-discharge patient follow-up.

More comfort and synchrony with VPAP COPD features

From setup to therapy management and monitoring, getting patients started and keeping them compliant is now easier and more intuitive than ever. Synchronization technology protects every breath.⁶⁻⁷

TiControl™

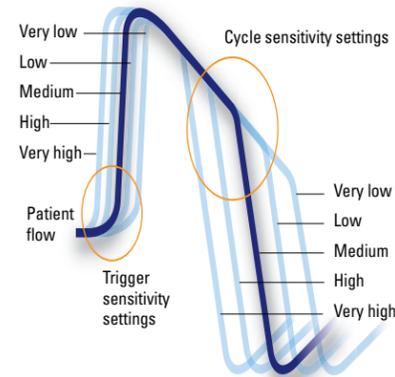


TiControl allows clinicians to manage the patient's inspiratory time according to their disease state.

Patients with an obstructive lung disease such as COPD have chronic airflow limitation. These patients require a longer exhalation, which often leads to asynchrony with standard bilevel settings.

Ti Max enables you to set the maximum time a patient can spend breathing in. Adjusting the Ti Max setting appropriately for a COPD patient ensures the patient has enough time for adequate exhalation.

Trigger and cycle sensitivities



Adjustable trigger and cycle sensitivities allow further customization at the beginning and end of each inspiration, which further improves patient-device synchrony.

A high cycle sensitivity is suggested for COPD patients to provide an earlier cycle to exhalation. The prolonged exhalation will help prevent auto-PEEP and preserve synchrony.

Device settings optimized for COPD

COPD patients who require NIV have specific needs to ensure optimal ventilation. These patients often have difficulty exhaling air, which can lead to gas trapping and hyperinflation. Maintaining synchrony and comfort for these patients is critical in getting them compliant on their therapy.

VPAP COPD's default settings make initial setup of COPD patients quick and easy. The fast Rise Time, high cycle sensitivity and shortened Ti Max all contribute to minimizing hyperinflation and improving synchrony and comfort.

Default Settings	COPD
IPAP [cm H ₂ O]	13
EPAP [cm H ₂ O]	5
Ti Max [sec] ¹	1.0
Ti Min [sec] ¹	0.3
Rise Time [ms] ²	150
Trigger sensitivity	Medium
Cycle sensitivity	High
PS [cm H ₂ O]	8

NOTE: These settings are provided as a guide and starting point for initial settings. Individual patients may require further adjustments based on their own conditions. Existing protocols within your facility should always supersede these baseline recommendations.

Designed for better COPD management

- VPAP COPD has a pressure capability up to 30 cm H₂O, which can help treat COPD patients with overlap syndrome or patients requiring higher pressures for adequate ventilation.
- VPAP COPD has a range of adjustable alarms, including low SpO₂ (when oximeter is connected), low minute ventilation, apnea, high leak and non-vented mask.
- Secretion management is also important in managing COPD. Delivering warm, moist air has been shown to help manage hypersecretion and maintain clear airways.⁴⁻⁵ VPAP COPD accessories assist in delivering warm, humidified air—automatically adjusted to minimize rainout.

H5i heated humidifier with Climate Control

The device automatically detects the H5i ClimateLine™ tubing and provides the option of auto or manual control of humidity.

ClimateLine^{MAX}™ Oxy

Ideal for patients who need supplemental oxygen, it neatly connects at the back of the device, removing the inconvenience of a separate tubing connection, while allowing the oxygen to completely mix with warmed, humidified air

Supports higher pressures and intelligently regulates temperature with the Climate Control algorithm to deliver a constant, comfortable temperature at the mask, while reducing rainout.

ClimateLine^{MAX}™ Oxy



Better therapy outcomes with EasyCare Online

ResMed's EasyCare Online therapy monitoring is a comprehensive solution that empowers you to help patients achieve better therapy outcomes and manage their condition post-discharge.

- Usage reports make it easy to identify patients who are not following their treatment plan so you can proactively address issues.
- Critical respiratory parameters provide additional insight into patient therapy:

- Respiratory rate
- Tidal volume
- Minute ventilation
- I:E ratio

VPAP COPD is indicated to provide noninvasive ventilation for patients weighing more than 30 lbs (13 kg) with respiratory insufficiency, such as that associated with hypercapnic COPD or obstructive sleep apnea (OSA). VPAP COPD is intended for home and hospital use.

NOTE: COPD is defined as per the GOLD (Global Initiative for Chronic Obstructive Lung Disease) classification and hypercapnia as CO₂ > 45 mm Hg. VPAP COPD is optimized for treatment of COPD patients without a backup rate. For patients who require a backup rate, the S9™ VPAP ST-A with iVAPS is recommended.



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VPAP COPD

Order VPAP COPD therapy systems and accessories

Purchase these items separately



VPAP COPD with H5i and ClimateLine^{MAX} Oxy 36054

VPAP COPD with H5i 36044

VPAP COPD 36034



ResMed Power Station II

249004 RPS II kit for S9



Tubing

36996 ClimateLine^{MAX} Oxy

36995 ClimateLine

36810 SlimLine[™] tube

21948 Standard tube



Oximetry pack

22305 XPOD oximeter

22306 clip for XPOD

707560 medium soft sensor

3 m cable



Oximeter adapter

36940



DC/DC converter 24V/90W

36970



SD card reader

36931

TECHNICAL SPECIFICATIONS

TiControl

Ti Max 0.3–4 sec

Ti Min 0.1–Ti Max

Rise Time

Min, 150–900 msec (approx.)

Dimensions (L x W x H)

153 x 172 x 86 mm

Weight

1.04 kg

Trigger

Five settings

Cycle

Five settings

Air filter

Electrostatic fiber mesh

Air outlet

22 mm taper, compatible with ISO 5356–1:2004

IEC 60601–1 Classification

Class II (double insulation)

Type BF continuous operation

Power supply

90W power supply unit

AC 100–240V 50–60Hz, 2.2A

AC 115V 400Hz, 2.2A

90W DC/DC converter 12V, 24V

MODES AND PRESSURE RANGE

CPAP (Continuous Positive Airway Pressure), S (Spontaneous).
Pressure IPAP: 4–30 cm H₂O, EPAP: 2–25 cm H₂O. Range of alarms.

Combine VPAP devices with ResMed's premium masks for a system that delivers more comfort and compliance.



S9[™] | Series

More. Comfort.

¹ Tsolaki et al. One-year non-invasive ventilation in chronic hypercapnic COPD: effect on quality of life. *Respir Med* 2008; 102(6):904-11

² Cheung et al. Duiverman et al. Nocturnal non-invasive ventilation in addition to rehabilitation in hypercapnic patients with COPD. *Thorax* 2008; 63(12):1052-7 3

³ A pilot trial of non-invasive home ventilation after acidotic respiratory failure in chronic obstructive pulmonary disease. *Int J Tuberc Lung Dis* 2010; 14:642–649

⁴ Rea et al. The clinical utility of long-term humidification therapy in chronic airway disease. *Respir Med* 2010;104(4):525-33

⁵ Hasani et al. Domiciliary humidification improves lung mucociliary clearance in patients with bronchiectasis. *Chron Respir Dis* 2008;5(2):81-6

⁶ Gentile MA. Cycling of the mechanical ventilator breath. *Respir Care* 2011

⁷ Berry et al. Best clinical practice for the sleep center adjustment of noninvasive positive pressure ventilation in stable chronic alveolar hypoventilation syndromes. *J Clin Sleep Med* 2010