VPAP™ COPD
NONINVASIVE VENTILATION

NIV treatment specifically for COPD patients
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. 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.4,5

TiControl1 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.

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 shorted Ti Max all contribute to minimizing hyperinflation and improving synchrony and comfort.

Design notes 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 hyperssecretion and maintain clear airways.4-5 VPAP COPD accessories assist in delivering warm, humidified air—automatically adjusted to minimise rainout.

HSi heated humidifier with Climate Control

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

ClimateLine™ MAX Oxy

Ideal for patients who need supplemental oxygen, it readily 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.

NOTE: COPD is defined as per the GOLD (Global Initiative for Chronic Obstructive Lung Disease) classification and hypercapnia as CO2 > 45 mm Hg.

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
- 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.

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.

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Revised respiratory parameters provide additional insight into patient therapy:
- Respiratory rate
- Tidal volume
- 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.

NOTES: 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.
ResMed

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

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.

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