Hans Rudolph 7600 Series V2 Mask (1) **Oro-Nasal CPAP/BiLevel Reusable** with Vents & AAV

Instructions for Use & Maintenance

1. Intended Use

The 7600 V2 Mask is a reusable, multi-patient, multi-use, Oro-Nasal CPAP/BiLevel mask which incorporates a passive, continuous flow exhaust port. It is intended for use with certain CPAP/BiLevel machines for treatment of obstruc-tive sleep apnea, and for use with other similar ventilators that use this exhaust port configuration providing a minimum of 3 cm H_20 pressure measured at the mask.

LATEX FREE

2. Environment of Use

This mask is for use in homes, hospitals, and other clinical settings by individuals that have received at least minimal instruction or training on the use of the masks as well as the device to which the masks are intended to connect.

3. Indications for Use

This mask is indicated for use on adult patients (greater than 30 kg weight) for treatment of Obstructive Sleep Apnea or any other conditions requiring CPAP/BiLevel or non-invasive ventilatory support at pressures greater than or equal to 3 cm H₂0 at the mask in homes, hospitals, and other clinical settings.

4. Cautions

- Federal law restricts this device to sale by or on the order of a a. physician.
- At low CPAP/BiLevel pressures the flow through the mask b. vent holes may be inadequate to clear all exhaled gas from the tubing. Some rebreathing may occur.
- Patients with facial hair may experience mask leakage even c. though all fitting instructions are followed. If mask leakage is excessive, facial hair may need to be shaved to assure mask effectiveness.

Warnings 5.

This CPAP/BiLevel mask should be used only with a. CPAP/BiLevel systems recommended by your physician or repiratory therapist. This mask should not be used unless the CPAP/BiLevel system is turned on and operating properly. The

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Apply and Fitting Mask 9.

- Mask sizes: L (large), M (medium), S (small), ES (extra small), P (petite)
- b Headgear sizes: L (large), M (medium), S (small)

Recommended Headgear Sizes for each Mask Size					
Mask	L	М	S	ES	Р
Headgear	L	М	М	S	S
<u> </u>	Det	termine mask	size of natient	t with a Mask	Sizing Gauge

mask size of patient with a Mask Sizing Gauge (fig 3) provided to measure the patient's face and aid in selecting the best mask size. For sizing the patient's facial muscles should be relaxed and jaw closed. Fit the patient's chin in the chin cup section of the mask and slightly press the mask onto the face. The top of the mask should be slightly below the nasal root depression (where the nose meets the forehead).



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- vent holes in the mask should never be blocked. These masks are intended to be used only with CPAP/BiLevel b. systems which require vent holes in the mask to allow continuous air flow out of the mask. When the CPAP/BiLevel machine is turned on and functioning properly, new air from the CPAP/BiLevel machine flushes the exhaled air out through the mask vent holes. However, when the CPAP/BiLevel machine is not operating properly, enough fresh air will not be provided through the mask, and exhaled air may be rebreathed. Rebreathing of exhaled air for longer than several minutes can in some cases lead to suffocation.
- с. This mask is shipped clean but nonsterile. If disinfected or sterile use is required, follow the disinfection of sterilization procedures described in this document prior to use of the mask.
- d Discontinue use of the mask if patient skin or mucous membrane irritation or allergic reaction develops due to the mask.
- Failure to arouse and remove the mask after vomiting could e. result in aspiration of vomitus.
- If a fixed flow rate of supplemental oxygen is used, the inhaled f percent oxygen will vary depending upon the pressure settings, patient breathing pattern, mask size and leak rate. Oxygen flow must be turned off when the CPAP/BiLevel system is not operating

Contraindications

- a minimum pressure less than 3 cm H20 at mask а.
- open wounds that are prone to infection b.
- C. hemodynamic or cardiorespiratory instability
- unconsciousness d.
- claustrophobia, anxiety, or other discomfort with an Oro-Nasal e. mask
- facial or nasopharyngeal deformity, beard, or other inability to fit mask and seal properly
- excessive reflux, GI blood or other secretions

- clear secretions

- per day
- 1
- vomiting

Complications

- а b. mask
- nasal or dental pain or deformity c.
- d.
- eye irritation or conjunctivitis e.
- gastric distention and abdominal pain or flatulence from indested air
- q
- respiratory tract infections



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Fitting the mask The mask and headgear is supplied fully assembled

d.

Place the mask over the patient's nose and mouth. The patient's 1. chin should fit into the chin cup portion of the mask with the top of the mask sealing area on the bridge of the nose.

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- (a) Slide the headgear over the patient's head. It may be easier 2. for some patients if one of the lower headgear guick-release strap clips is disconnected before putting the headgear on the patient. (b) Reconnect the headgear strap clip after the headgear is placed on. The bottom straps should be positioned below the ears and the top straps above the ears and below the eves
- 3. (a & b) Adjust the tension of the headgear Velcro[™] straps by pulling back slightly on the straps. Tighten the lower two straps then the top two to achieve a comfortable fit. (c) Finally, adjust the two straps attached by the tri-glide connection at the crown of the head by pulling each in opposing directions until reaching the required tension and then reconnecting the velcro. Overtightening can cause leaks.
- 4 Connect the mask to the ventilator patient circuit by following the ventilator operating instructions.
- 5. Turn the ventilator on. If you or the patient detects a leak around the mask sealing area, reposition the mask and or adjust the strap tension to eliminate the leak. If the leak continues regardless of your adjustments try another mask size.



Headgear

a. Submerge the headgear in warm soapy tap water and gently rub all the areas

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- b. Rinse in clean tap water for 1 minute or until all signs of the soap are removed
- c. Air dry
- d. Caution: Fabric dye in the headgear material may run the first couple times during cleaning. We recommend washing the headgear before first time use.
- e. Precaution: Do not use bleach, chlorine or alcohol based solutions to clean any of the mask and headgear components. These solutions can damage this product. Direct sunlight exposure with the mask and headgear components can cause deterioration and reduce product life.

14. High Level Disinfection (Mask and Swivel port components only)

- a. The mask assembly should be disinfected or sterilized between multiple patient uses.b. The mask must be thoroughly cleaned in accordance with
- the cleaning instructions prior to disinfection or sterilization.c.For disinfection use Cidex™ liquid glutaraldehyde solution
- or hot water pasteurization method. d. Liquid Chemical Disinfection
- Liquid Chemical Disinfection
 - Submerge and soak the device components in the liquid solution according to manufacturers recommendations.
 - Remove the device from the colution and submerge in 1500 ml of sterile water for at least 1 minute
 - 3. Repeat the previous step a second time.
 - 4. Dry the device with a clean (preferably sterile) lint free cloth.

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- d. Steam Sterilization cycles
 - Pre-vacuum cycles
 - 1. Temperature: 132.2 +3/-1 C
 - 2. Sterilization time: 4 minutes
 - 3. Dry time: 10 minutes
 - 4. Packaging: Double pouched or wrapped in CSR
 - Gravity Displacement cycle
 - 1. Temperature: 132.2 +3/-1 C
 - 2. Sterilization time: 30 minutes
 - 3. Dry time: 10 minutes
 - 4. Packaging: Tyvek[®] sterilization pouch

16. Mask Vent Pressure Flow Curve

This graph illustrates the air flow leak rate through the mask vent holes at a full range of mask pressures



16. Mask Resistance to Flow

The resistance to flow through the mask assembly is less than 0.5 cm $\rm H_{2}0$ at 50 L/min

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- Hot Water Pasteurization
 - Completely immerse the device components in a hot water bath. All surfaces should be in direct contact with the hot water for 30 minutes at temperatures set between 71.1 C and 76.6 C.
 Dry the device with a clean (preferably sterile) lint
 - Dry the device with a clean (preferably sterile) lint free cloth.
- Inspect all Components for Cleanliness, Function and Defects
- If there are any signs of residues, stains or organic debris then repeat the previous steps. If these signs remain following further cleaning and disinfection then replace with new components.
- 2. Visually inspect all components for defects. Check rubber parts for nicks, tears, deformation or distortion. Check plastic parts for crazing and cracking.
- 3. Dispose of and replce all defective parts.
- g. Reassemble
 - Check AAV diaphragm function: with the mask installed the diaphragm should flex instantly to CLOSE the room air breathing port with a minimum CPAP/BiLevel of 3 cm H₂O mask pressure. When there is no CPAP/BiLevel pressure in the mask the diaphragm will OPEN and wallow room qair breathing directly through the room air port opening.
 - 2. Snap the AAV into the elbow of the swivel port assuring the elbow locking tabs are fully engaged witht the slots of the AAV.
 - 3. Press the two rubber cap plugs on to the sampling ports of the mask adapter.
 - 4. Install the swivel port assembly into the grooved opening of the face mask. Orient the two

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17. Mask Deadspace

Values measured using a facial profile include the face mask and swivel port assembly (22mm OD swivel port)

Mask Assembly Deadspace Volume ml					
Large 169	Medium 151	Small 125	Extra Small 114	Petite 104	

18. Mask and Headgear Service Life

Mask and swivel port components are expected to stay in service for minimum of 25 disinfection and steams sterilization cycles or 6 months of use under normal conditions, whichever occurs first. The headgear is expected to stay in service for 6 months of use.

- 19. Operational Temperature and Humidity ranges for the Mask assembly and Headgear Temperature range: 5-40 C Humidity range: 0-95% RH
- 20. Recommendations for Mask Disposal

All components of this product can be treated as conventional solid waste and disposed of in accordance with your local and federal regulations.

21. Ordering Information

7600 Series Reusable V2 Oro-Nasal Mask with Elbow Swivel Port 22mm OD with AAV, Vents & Headgear (HG)

D/N	Description
F /1 N	Mask, AAV, Vented, 22mm OD with HG
113485	7600 LARGE
113486	7600 MEDIUM
113487	7600 SMALL
113488	7600 EXTRA SMALL
113489	7600 PETITE

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- sampling ports on either side of the nose portion of the face mask. The flange of the swivel port mask adapter mates with the groove of the mask Start with placing one portion of the adapter into the mask groove then continue completely around stretching it and working it into the mask groove until completely installed.
- Mount the headgear to the face piece. Snap the strap quick-release clips into the appropriate plastic slots on the mask.
- Functional Check

5.

h.

- All swivel port joints should swivel freely.
 AAV is installed completely in the port, locking
- tabs fully engaged and the diaphragm flexes freely without any obstruction.
 Swivel port assembly is completely engaged i
- Swivel port assembly is completely engaged in the mask face piece.
 Storage
- 1. All components should be completely dry before storage.
- 2. Place complete assembly in clear plastic bag and seal the bag.
- 3. Label the bag with disinfection/clean status, mask description, date and initials.

15. Steam Sterilization (Face Mask assembly less Headgear)

- a. Mask must be cleaned and dry in accordance with instruc tions prior to sterilization.
- b. The mask should be completely assembled (less headgear).
 c. It is the user's responsibility to validate any deviations from these methods.

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D/N	Description		
r/N	Mask, AAV, Vented, 22mm OD LESS HG		
113570	7600 LARGE		
113571	7600 MEDIUM		
113572	7600 SMALL		
113573	7600 EXTRA SMALL		
113574	7600 PETITE		
P/N	Description		
	Replacement Parts		
669180	Face Piece LARGE		
669181	Face Piece MEDIUM		
669182	Face Piece SMALL		
669183	Face Piece EXTRA SMALL		
669184	Face Piece PETITE		
201494	Headgear LARGE		
201493	Headgear MEDIUM		
201492	Headgear SMALL		
201523	Swivel Port, Vented, AAV, 22mm OD		
201555	HG Strap Clips package of four		
201521	AAV Port assembly		
211022	Cap Plugs for sampling port package of two		
	Description		
P/N	Accessories		
691143	Mask Sizing Gauge for V2 Oro-Nasal Masks		
660353	METROIM NG Tube Seal Disposable package of 1		
007555	METRO Trube Sear Disposable package of I		

22. Safety Information

23.

Safety or technical information regarding this product can be obtained from Hans Rudolph inc.

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