Infant Flow® LP system headgear
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Prepare Infant Flow SiPAP driver

1. Attach the infant circuit to the humidifier and nCPAP driver.
2. Attach the generator to the circuit.
3. Perform oxygen sensor calibration and user verification.
4. Enter the desired settings.
Infant Flow LP components

A. Mask and prongs
B. Generator
C. Bonnet sizing guide
D. Mask/Prong sizing guide
E. Headgear
F. Bonnet
Generator assembly components

A. Exhalation tube
B. Securing strap
C. Generator receiver
D. Fixation tab
E. Mask/Prong attachment base
F. Support cradle
G. Pressure and drive lines
Low pressure generator

- Lower drive pressure
  - Prevents pressure backup into the water auto-feed system
- Pressure relief valve
Nasal prongs

Anatomically designed

A. Flared tip
B. Flexible bellow
C. Base
D. Size indicator
E. Key
Nasal mask

Anatomically designed

A. Nasal bridge cushion
B. Contour shape
C. Key
D. Flexible bellow
E. Assessment window
F. Size indicator
Nasal prong and mask sizing

• Use the sizing guide to determine the appropriate mask or prong size.

• Nasal prongs: Choose the dots that fill the nare space.

• If between sizes, choose the larger size.

• Nasal masks: Choose the triangle that fits over the nose.
Headgear sizing

Measure the circumference of the head; from the crown at back of the head to the brow line (*in centimeters*).
Generator assembly application

Headgear application

1. Align the headgear with the midline of the face.

2. Align the bottom of the headgear with the nape of the neck.
Headgear application (continued)

3. Place strap 1 just above the brow line.

Note: Straps are labeled 1, 2 and 3.

4. Place strap 2 midline over strap 1.
Headgear application (continued)

5. Place strap 3 on top of straps 1 and 2.

Note: The strap should be snug—do not overtighten.

6. Fold strap 2 up and over strap 3, and secure it to the top strap.
Check for proper headgear placement

- The back of the headgear rests on the nape of the neck.

- The forehead straps rest on the brow line.
Incorrect headgear placement

- The horizontal strap rests close to the eye.
- The forehead strap rests too far above the brow line.
Incorrect headgear placement (continued)

• A headgear fold/bulge appears above the nape of the neck.

• The top strap is too tight, and forehead strap 3 is pulled back.
Attach interface to generator

Align the notch on the prongs/mask to straddle the pressure lines.
Remove support cradle

1. Expand the collapsible corrugated tubing.

2. Remove the support cradle from the generator assembly.
Apply support cradle to headgear

1. Center the support cradle properly on the straps.

2. Secure the center tab.
Align generator assembly

1. Center the generator and interface over the patient’s nose and support cradle.

2. Insert the nasal prongs using a gentle rocking motion.

3. Place the drive line and pressure line in the support cradle with the exhalation tube resting on top.
Secure locking strap

1. Wrap the locking strap over the exhalation tube, and attach it to the side of the support cradle.

2. Position the small slit over the ridge of the exhalation tube.
Attach side straps to generator

1. Wrap the side straps around the generator tabs.
2. Use the Velcro® tip to secure the strap—loose is better.
3. Use the side straps to adjust the tension on the interface—do not overtighten.
Final check of generator assembly

Check for correct headgear placement

A. The generator aligns and centers with the nose.
B. The side straps are properly placed.
C. The support cradle tabs are secured to the headgear.

Note: The straps should be snug—not tight.
Check placement of exhalation tube

Incorrect

Correct
Check for proper nasal prong position

• The bellows are visible.
• The septum is visible.
• The generator assembly does not contact skin.
Incorrect nasal prong position

- The mask is too tight, and the bellows are compressed.

- The prong is not in the nare.
Verify proper mask placement

• The mask covers the nasal profile.
• The mask rests below the eyes.
• The bellows are not compressed.
• The side strap rests low on the cheek.

Note: Do not overtighten.
Incorrect mask placement

• Too much tension applies to one side.
• The mask is collapsed.
• The nares are not visible.
Incorrect mask size—too small

- The mask blocks the nares.

- The mask cannot cover the nose.
Incorrect mask size—too large

- The mask rests on the bridge of the nose.
- The mask rests against the eyes.
- The mask rests on the upper lip.
Warnings and cautions

• Use this product only as directed in the product literature to reduce risk of nasal irritation, septal distortion, skin irritation and pressure necrosis.
• Use this product only as a trained practitioner, under a qualified physician’s direct supervision.
• Use the Infant Flow LP generator only with variable flow nCPAP drivers.
• Do not overtighten the fixation straps.
Application tips

- Select the appropriate nasal mask size to minimize leaks and dead space.
- Select the appropriate nasal prong size; if between sizes, select the larger size.
- To avoid affecting the generator’s stability, only use a correctly sized prong, mask, bonnet or headgear.
- Adjust the straps to stabilize the generator, and maintain a seal at the nose using the least tension possible.
- Consider alternating the use of prong and mask interfaces at set intervals to change the pressure points on the face.
- Continuously monitor the respiratory status.
- Cover both ears evenly; ensure the ears are not folded.
- Use humidification with nCPAP systems.
Inspection

Inspect the system at least every three to four hours to:

- Ensure clearly visible eyes and unblocked nares if using a mask.
- Check the fixation device and straps for proper tension, adjusting them as needed to maintain a proper fit.
- Monitor gastric insufflation and abdominal distension.
- Monitor for excessive condensation in the circuit and generator.
- Alternate the use of prong and mask interfaces to change the pressure points on the face.
WARNING—U.S. Federal Law restricts this device to sale by or on the order of a physician.

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