



155 Boyce Drive, Mocksville, NC USA
336-753-5000 www.ventlab.com

Rx ONLY LATEX FREE
DO NOT STERILIZE
SINGLE PATIENT USE ONLY

**Ventlab Nasal Cannula System for CPAP & Bi-Level
with Disposable Universal Circuit**

REORDER PART NUMBER
Small - CS4000C, Medium - CS4001C
Large - CS4002C, X-Large - CS4003C



The Ventlab Nasal Cannula System for CPAP and Bi-Level is used in conjunction with the Ventlab Disposable Universal Bi-level Circuit to provide an interface and connection to a flow generator for a patient requiring positive pressure non-invasive ventilation.

Pressure will be monitored proximal to the patient at the interface swivel and the in-line pressure port connector.

CAUTION: Do not remove in-line pressure port connector or pressure monitoring tubing .

CONTENTS INCLUDED:

Nasal Cannula System: 1- Adjustable Standard Headgear with locking screw tabs, 1- Latex Free Cannula with exhalation ports, 1- Plastic screwdriver, 1- tubing set with swivel connection (22mm OD), barbed connection with sampling port for easy connection to cannula, 2- tubing directional clips.
Universal Circuit: 1- six foot section of large smooth bore tubing, 1- 84" length of pressure monitoring tubing with luer adapter (used as tubing connector for dual monitoring 30" extension) attached to a pressure monitoring adapter (22mm ID) for easy connection to the cannula system, 1- large capped ported adapter that allows easy oxygen entrainment or exhalation port testing depending on flow generator, 1- 30" tubing extension with barbed T- connector when used with flow generators that have external dual alarms, 1- 22 mm ID connector for easy attachment to the flow generator.

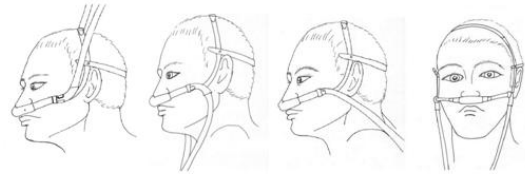
CANNULA SYSTEM

Specifications:
Pressure vs. Flow
1.3 cmH₂O @ 40 lpm
2.6 cmH₂O @ 60 lpm
5.4 cmH₂O @ 80 lpm
6.2 cmH₂O @ 100 lpm

Dead space of nasal cannula
extra large 17 ml, large 20 ml,
medium 10 ml, small 7.5 ml

Directions for Use

1. Place headgear on head with nasal inserts facing nose, (see Positions of Use illustrations).
2. Grasp cannula with fingers and position nasal inserts near nostrils.
3. Press inserts into nostrils until base of cannula is flush against the nose.
4. Attach "Y"-adapter from the CPAP interface to flow generator tubing.
5. Turn ventilation device on.
6. Once airflow begins, adjust the CPAP interface for optimal seal to the nostrils and for comfort of fit. Occasional adjustments may be needed.



Positions of Use

Precautions

1. **Warning:** This Ventlab Disposable Nasal CPAP Interface should be used with positive pressure ventilation systems recommended by a physician or respiratory therapist. The vent hole or holes associated with the cannula should never be blocked.
Warning explanation: Positive Pressure Flow generator systems are intended for use with special nasal cannulas that have vent holes, which allows air to continuously flow through the cannula. When the flow generator is turned on and functioning properly, new air from the flow generator flushes the exhaled air out through the attached exhalation port. However, when the flow generator is not operating, enough fresh air will not be provided through the cannula, and exhaled air may be rebreathed. Rebreathing of exhaled air for longer than several minutes can in some circumstances lead to suffocation. This warning applies to most models of flow generator systems.
2. **Warning:** If oxygen is used with the flow generator, the oxygen flow must be turned off when the flow generator is not operating.
Warning explanation: When the flow generator device is not in operation, and the oxygen flow is left on, oxygen delivered into the ventilator tubing may accumulate within the flow generator enclosure. Oxygen accumulated in the flow generator enclosure will create a risk of fire. This warning applies to most types of flow generator systems.
3. **Warning:** If using oxygen with this device, do not use within 3 feet of open flame or spark producing equipment.
4. **Caution:** At low positive pressures the flow through the exhalation port may be inadequate to clear all exhaled gas from the tubing. Some rebreathing may occur.
5. **Note:** At a fixed flow rate of supplemental oxygen flow, the inhaled oxygen concentration will vary depending on the pressure settings, patient breathing pattern, cannula size selection, and the leak rate.

Fig. 1: Dual Pressure Monitoring

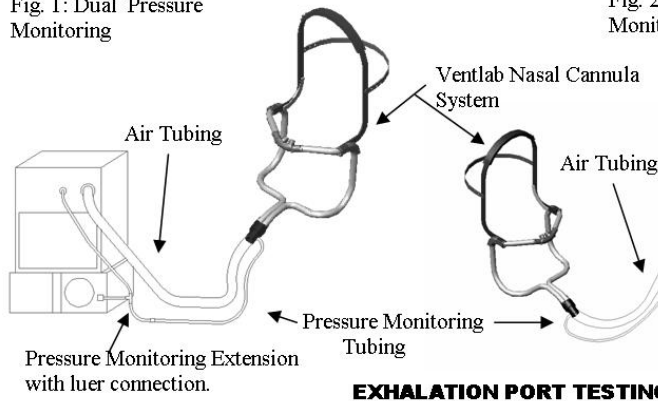
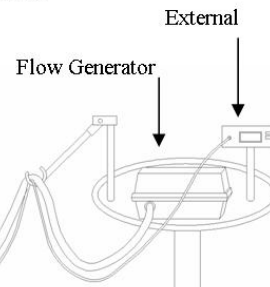


Fig. 2: External Alarm Monitoring



Directions for use: Disposable Universal Circuit

1. Attach the disposable air tubing to the outlet port of the Bi-level or CPAP device. Attach the other end of air tubing to the cannula system.
2. Attach the pressure monitoring tube with male luer lock fitting to a suitable pressure monitoring connector for the device used (see Fig. 2).

EXHALATION PORT TESTING

If exhalation port testing is required, uncover capped orifice while occluding circuit at the in-line pressure port adapter before connecting the cannula system. After exhalation port testing replace cap to orifice and attach to the swivel adapter on the cannula tubing set. Luer connection will need to be removed for proper connection to certain flow generators.