

# Cadence™ Patient Circuit

Reorder # 1028232

---

## Application

This patient circuit is intended for use only with the Cadence Transtracheal Catheter and Mid-section Hose on the Cadence™ Gas Delivery System. This is a non-sterile, single patient use disposable device. Read these instructions, the Cadence™ Self-Breathing System Operator's Manual (p/n 1025632) and all manufacturer component operator manuals before using the Cadence Self-Breathing System on a patient.

## Warnings

- Patient should be constantly monitored whenever this device is in use.
- Single patient use.
- Do not soak, rinse, wash or sterilize this product.
- Discard if patient circuit or its components are damaged or if damage is suspected.
- Do not pull, stretch or "milk" the circuit tubing.
- Prevent the circuit from coming in contact with patient skin.
- The Cadence Gas Delivery System is intended for use only with the Cadence Transtracheal Catheter and Mid-section Hose included with this patient circuit.
- Use the Fisher and Paykel MR850 Humidification System with the Respironics Patient Circuit System P/N 1028232.
- Do not attempt to remove the relief valve cover from the pressure relief valve manifold. Doing so will damage the manifold and impair the operation of the pressure relief valve.
- Do not use if pressure relief valve cover has been removed or is missing from the pressure relief valve manifold.
- Ensure that relevant caps and/or plugs are removed from the pressure relief valve manifold before connecting monitoring equipment.
- Ensure that any unused ports of the pressure relief valve manifold have their caps and/or plugs in place before use.
- Use only on the inlet port of the humidification chamber as the operation of the pressure relief valve may be impaired if connection is made to the outlet port.
- Refer to manufacturer's instructions and follow institutional infection control guidelines when disposing of patient used plastic products. This is medical waste, DO NOT recycle.

## Cautions

- Federal law (U.S.A.) restricts this device to sale by or on the order of a physician.
- Do not use this circuit where gas temperature at the outlet of the humidifier exceeds 154 degrees Fahrenheit (68 degrees Celsius).
- Be aware that the compliance and flow resistance characteristics of the circuit may affect the operating parameters and capabilities of the Cadence Gas Delivery System.
- Always maintain a minimum of 3 L/min through the circuit while humidifier is operating.
- Do not place material on or around the heated wire tubing. objects such as heavy tapes, towels, or bed linens may over insulate the circuits, impede normal heat convection, and cause damage to the tubing or interruption of gas delivery to the patient.

## Assembly Instructions

1. Locate the oxygen tubing with the built in threaded flowmeter connector. Connect the female threaded end of the oxygen tubing onto the outlet of the flowmeter.
2. Connect the flowmeter gas delivery tube to inlet port (nipple adaptor) of the pressure relief valve assembly.
3. Locate an MR290 humidification chamber and attach the pressure relief valve manifold to the chamber input, then slide the chamber onto the humidifier base.
4. Attach the heated wire circuit assembly on to the humidifier chamber outlet.
5. Connect the temperature probe plug to the blue socket on the humidifier base until an audible click is heard.
6. Push the blue chamber probe and airway probes into the heated wire circuit. Make sure the chamber probe is correctly located with the 'V's matching. Also make sure that both probes are fully inserted.

Manufactured for:  
Respironics California, Inc.  
2271 Cosmos Court  
Carlsbad, CA 92011  
USA  
1-800-345-6443  
or 724-387-4000

  
**RESPIRONICS**®



7. Connect the heater wire adaptor plug to the yellow socket on the humidifier base until an audible click is heard.
8. Connect the other end(s) of the heater wire adaptor to the breathing circuit socket(s).
9. Ensure adequate water supply is in the humidifier chamber.
10. Ensure all connections are tight.
11. Connect gas source to air/oxygen blender.
12. Connect Criterion® 40 pressure monitor tubing, the filter end luer fitting to the pressure monitor. The other luer fitting connects later to the Cadence Catheter.
13. Power on the monitor. Verify Criterion 40 pressure monitor is operating.
14. Adjust oxygen concentration to desired setting.
15. Adjust flow setting to desired flow rate. (6-15 L/min but generally between 10 and 12 L/min).
16. Power on humidifier. Verify humidifier is in Invasive Mode. Refer to operator's manual for complete details.
17. Patient circuit is now ready to connect to Cadence Catheter.
18. Insert Cadence Catheter into tracheostomy tube following cuff deflation and removal of non-fenestrated inner cannula. Where appropriate for Qualified Tracheostomy Tube design, a fenestrated inner cannula should be inserted. Refer to operator's manual for Cadence Catheter insertion instructions. Patient circuit should not be connected to catheter while inserting catheter.
19. Run a Pre-Operational Test as described in chapter 6 of the Cadence Self-Breathing System Operator's Manual.
20. Connect 11 mm Cadence Mid-section Hose connector to the Cadence Catheter inlet.
21. Connect pressure monitor to the Cadence catheter once catheter is securely in place.

### Single-Use Components Change Schedule

Single-Use Component	Scheduled Change
Cadence Circuit and Mid-section Hose	7 days
Cadence Catheter	24 hours or after each self-breathing trial that is less than 24 hours in length
2' Oxygen tubing	7 days
Pressure Relief Valve	7 days
Pressure Monitor Pressure tubing	7 days
Humidification Chamber	30 days
Qualified Tracheostomy Tubes which are the following cuffed fenestrated tracheostomy tubes: Portex Blue Line (sizes 7, 8, & 9 mm), Shiley DFEN (sizes 6 & 8 mm), Boston Medical Tracoe Twist (sizes 6, 7, 8, & 9 mm), Portex D.I.C. (sizes 6, 7, 8 & 9 mm), Portex Ultra (Sizes 6, 7, 8 & 9 mm)	According to manufacturer's recommended guidelines

