

AirLife™ Adult Heated Wire NIV Circuit

Single-limb, Single-heated high-flow circuit

Indications for Use:

The AirLife Adult Heated Wire NIV Circuit is intended for use with the adult only population that requires mechanical ventilation. The AirLife Adult Heated Wire NIV Circuit is used with spontaneously breathing individuals that benefit from high flow therapy. The product is single use device, non-sterile and used in professional healthcare environments under a doctor's supervision and by skilled clinicians. The AirLife Adult Heated Wire NIV Circuit is designed to work with noninvasive ventilators and compatible to the Fisher & Paykel MR850 humidifier

For Single Use Only • Rx Only

Setup:

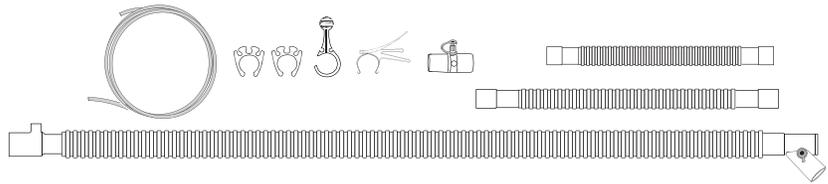
1. **INSPIRATORY LIMB (purple):** Connect the inspiratory limb to the humidifier chamber outlet port. Plug connector into appropriate heated wire adapter.
2. **HUMIDIFIER LIMB:** The humidifier limb connects the breathing machine outlet port to the humidifier chamber inlet port.
3. **UNHEATED EXTENSION LINE (purple):** Connect between inspiratory limb and patient. Attach clip to patient gown to reduce strain from weight of circuit on patient interface.
4. **Disposable Exhalation Port (DEP):** For use with non-vented NIV Mask, connect between extension line and patient interface. Connect pressure port to ventilator using supplied tubing as required. DEP exhalation flow is equivalent
Respironics DEP P/N 312149.



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5. Install temperature probe(s) into the temperature probe port(s), removing any plugs prior to inserting the probe. For application with the MR850, ensure that the wedge on the chamber probe is aligned with, and fully inserted into, the notch on the temperature probe port.

Test:

- Ensure that all connections are tight. Some connections are deliberately assembled only finger tight and must be firmly secured.
- Test circuit prior to use by occluding the patient connection port and pressure test the circuit to ensure that there are no leaks. Also, check that there are no occlusions by allowing the gas to flow and ensure that the gas is emitted from the patient connection port.
- Check that the heater wire is evenly distributed along the circuit and not bunched or kinked.

Cautions:

- Do not use this circuit where gas temperature at the outlet of the humidifier exceeds 68 degrees Celsius / 154 degrees Fahrenheit.
- Do not use this circuit with humidifiers or heated wire adapters other than those specified in the applications section of the product label.
- Do not use the heated wire circuit without gas flow. Heated circuits must have a minimum gas flow (please refer to product label) through the tubing at all times. Operating circuits with lower flow rates (minute volume + background /bias flow) may result in reduced patient humidification and increased condensation in the circuit tubing.
- 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.
- Re-use may degrade the performance of the product or contribute to cross contamination.
- The heated wire circuit has been tested at an altitude of ≤2000 m under environmental conditions of 21-25 degrees Celsius ambient temperature and 20-60 percent relative humidity. Operation outside of these ranges may vary results.
- After use properly dispose of product in accordance with local hospital protocols and all applicable Federal and State regulations.
- Portable and mobile RF communications equipment can affect Medical Electrical Equipment.

- Essential Performance of the heated wire circuit and heater base is to prevent drying out of airway secretions. During therapy measured gas temperatures can fluctuate around set gas temperatures without affecting essential performance. In a single fault condition of exposure to electrical fast transient/bursts up to ±1kV, an audible alarm will sound and power to the heater core will be lost. Measured gas temperatures can temporarily fluctuate but do not affect essential performance.

Warnings:

- Avoid prolonged contact with patient's skin.
- Do not stretch the tubing.
- Do not soak, rinse, wash, re-use, or sterilize this product.
- Ensure the circuit is gas tight and that there are no leaks.
- This product is intended to be used for a maximum of 7 days.
- The use of wire adapters or temperature/flow probes other than those specified below may result in increased emissions or decreased electromagnetic immunity of the heated wire circuit and MR850 heater base.
- The heated wire circuit and heater base should not be used adjacent to or stacked with other equipment with the exception of a mechanical ventilator. If adjacent or stacked use is necessary, check to ensure that no part of the heater base or its cables will be near other AC cables. The heater base should be observed to verify normal operation in the configuration in which it will be used.
- To prevent increased expiratory resistance due to an occluded exhalation port, monitor the port closely and check the patient for adequate ventilation.
- The Exhalation Port on the DEP is designed to exhaust CO₂ from the patient circuit. Continuous flow is required for safe operation. Do not block or try to seal the exhaust vent on the exhalation port.
- Do not use with any expiratory limbs.
- Ensure Disposable Exhalation Port (DEP) exhalation flow is pointed away from circuit. Exhalation flow directed at circuit may cause excess condensation in limb.
- Portable RF communications equipment (including peripherals such as antenna cables and external antennas) should be used no closer than 30cm (12 inches) to any part of the heated wire circuit and heater base. Otherwise, degradation of the performance of this equipment could result.

Application

REF No.	Resistance to Flow	Compliance
AH119	R(I) @ 30 l/min: 0.01 hPa/l/min (cmH ₂ O/l/min)	C @ 60 hPa: 2.6ml/hPa (ml/cmH ₂ O)

REF No.	Humidifier	Wire Adapter	Temperature/Flow Probe	Flow Rate	Rated Flow	Length
AH119	F&P MR850	900MR806	900MR869	>3 L/min	60 L/min	1.52 m

SINGLE LIMB

