



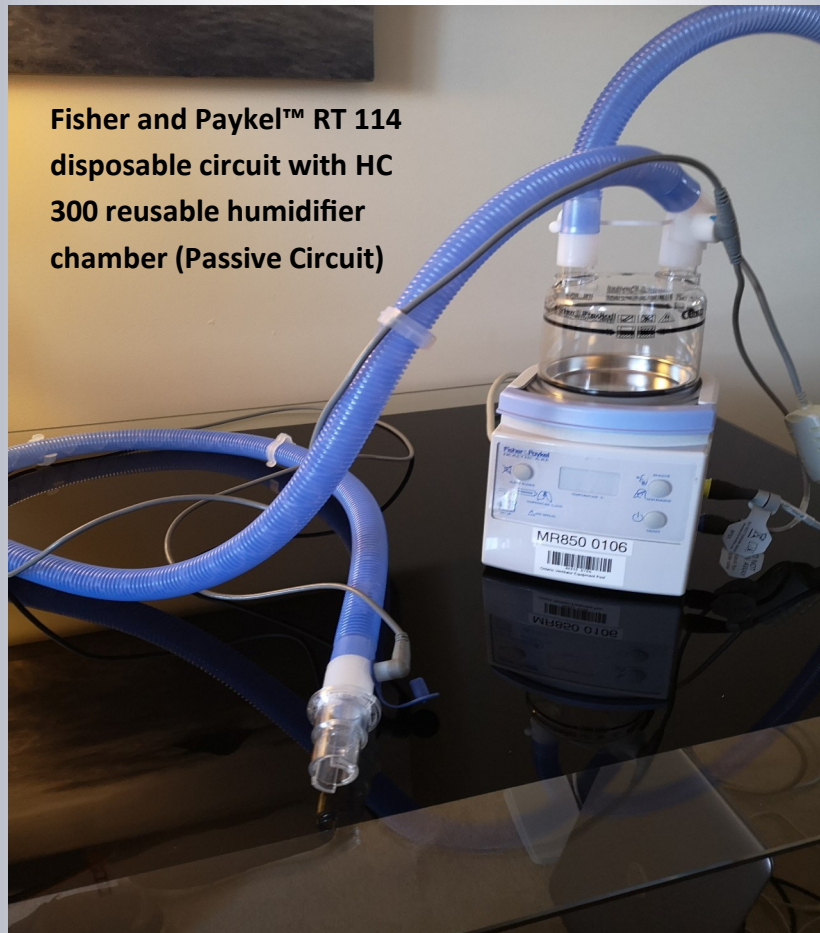
Fisher and Paykel™ Disposable Circuits
For the Trilogy 200™ Ventilator :
Set-up and Use Guide for
Clients and Clinicians



Important Considerations When Assembling and Using your Fisher and Paykel™ Disposable Circuits

- The circuits you have been provided from the Ventilator Equipment Pool are disposable and should be changed weekly and thrown out as per manufacturers recommendations.
- Certain Parts of the circuit are reusable and cleanable as per manufacturers guidelines. See the attached sheet for a description of which part of your circuits are cleanable and reusable.
- If you have been provided with a reusable humidifier chamber, it can be disassembled and cleaned and reassembled for use. Disposable humidifier chambers are to be thrown out and replaced with the circuit.
- When using a Passive Circuit with a leak port, make sure the port is kept free from mucus and debris to ensure the proper function of the circuit and to allow for exhalation.
- Never cover up the leak port on the circuit as this can affect ventilation to the ventilator assisted individual (VAI), make sure the leak port is not covered with bedding or clothing as this can affect is use.
- **The minimum weight of an infant/child using a Fisher and Paykel RT 114 or an RT 202 disposable circuit is 12 kilograms as per manufacturers guidelines for use:** Check with your physician if you have any concerns regarding the weight of your child and the circuit you are using.
- Never wrap a heated wire circuit or bury under bedding when in use. This may lead to overheating of the circuit with the potential for inhalation burns or increase risk of fire. If you are having problems with too much water/humidity, you may try readjusting the position of the circuit/temperature probe away from a source of cool air. Fans, air vents, and air conditioning outlets when placed too close to the temperature port may cool down the circuit and cause the humidifier to overheat the circuit.
- Never clean and reuse a disposable circuit as this can lead to circuit failure.
- Remember, if using an Active PAP , or Active Flow circuit, always perform an “Active Circuit Leak Test” after changing the circuit or any of its parts, prior to using the circuit on the VAI. A video of the “Active Circuit Leak Test” can be found on our website: www.ontvep.ca
- When assembling the circuit, pay special attention to making sure all connections are snug fitting. Ensure the temperature probe connections are securely and completely connected. Check all capped connections if present, to make sure they are firmly in place.
- Fill the humidifier chamber to the maximum fill line only. Overfilling the chamber may affect ventilation and may spill over into the ventilator circuit. Always place the level of the humidifier below the level of the ventilator and VAI to prevent water from spilling into the ventilator or VAI’s airway.
- Always turn off the humidifier when not in use to prevent overheating of the humidifier chamber. Flow from the ventilator must be present for the humidifier to function properly.
- If you have any questions regarding the use and care of your equipment or ventilator circuits, contact the **Ventilator Equipment Pool** at 1-800-633-8977 and we can assist you with any help you may need.

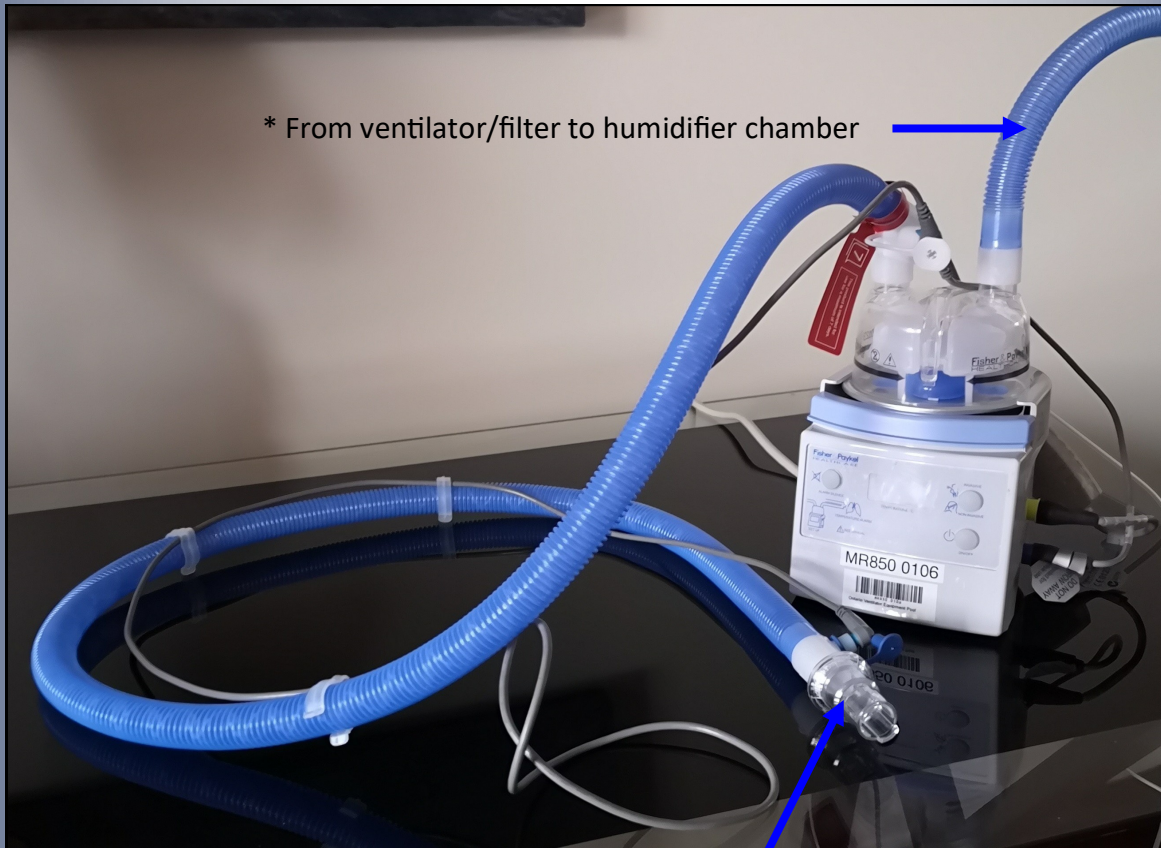
Fisher and Paykel™ Disposable Circuits and Humidifiers



Fisher and Paykel™ Circuits and Humidifier Chambers:

- **RT 202**: Adult Ventilator Circuit (> 12 kg) / **MR 290**: Autofeed Humidifier Chamber (included in package)
- **RT 114**: Adult Ventilator Circuit (>12 kg) / **HC 300**: Reusable Humidifier Chamber (provided separately)

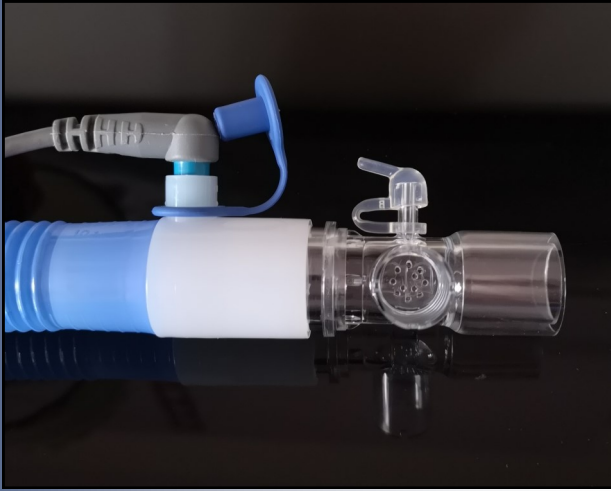
Disposable Fisher and Paykel™ Passive Heated Wire Circuit with Autofeed Chamber (RT 202)



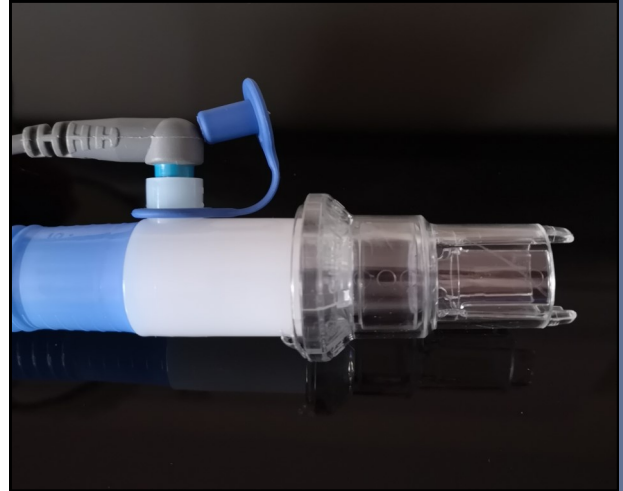
When assembling or changing the circuit:

- When using a passive circuit, a leak port MUST be in place between the temperature probe connection port and the patient (examples of leak ports can be found on the next page).
- The short blue hose is connected to the outlet filter of the ventilator * and the inlet port of the humidifier chamber. The long heated hose is connected to the outlet of the humidifier (the angled end of the hose). Connect the temperature probe and heater hose adapter cable.
- Ensure all connections are tightly and securely in place.
- Change the disposable circuit weekly or sooner if visibly soiled or damaged.

Examples of Leak Ports for Passive Circuits



Respironics Disposable Filter
Exhalation Valve with Port



Respironics Whisper
Swivel II



Respironics Pediatric Whisper
Swivel

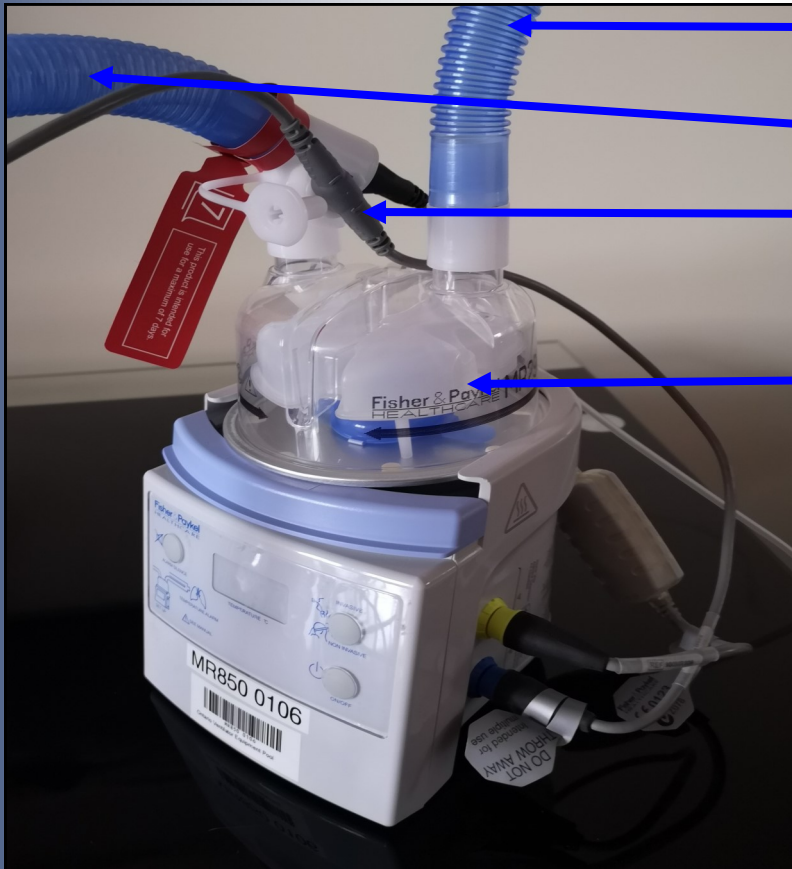


Fisher and Paykel Exhalation Port

Keep exhalation ports free of mucus and debris, clean ports as per manufacturers guidelines

Keep exhalation ports free of bedding and clothing, Do not cover up ports

Disposable Fisher and Paykel™ Heated Wire Circuit (RT 202) with Autofeed Chamber

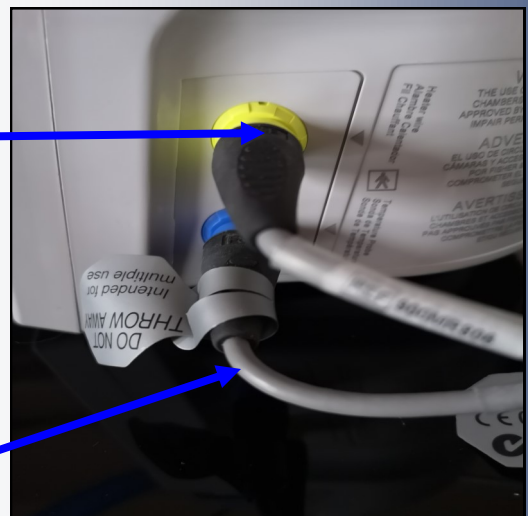


- From Trilogy 200™ ventilator / outlet filter
- To patient
- Heated Wire Port at outlet of humidifier
- Autofeed Humidifier Chamber (MR 290)

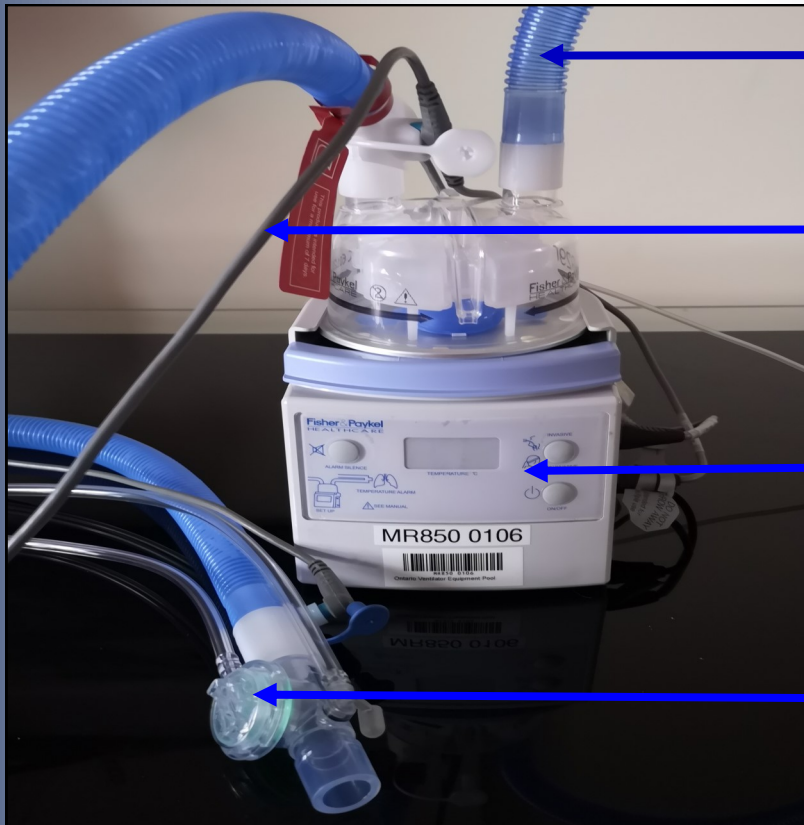
Close-up of Heated Wire Cable and Temperature Probe Cable



- Heated Wire Cable
- Insert Probe securely into Port until a “click” is heard
- Temperature Probe



Disposable Fisher and Paykel™ Heated Wire Circuit With Active Exhalation Valve (RT 202)



From Trilogy™ ventilator outlet /
filter

Heated Wire cable

Fisher and Paykel™ Humidifier

Exhalation Valve Assembly

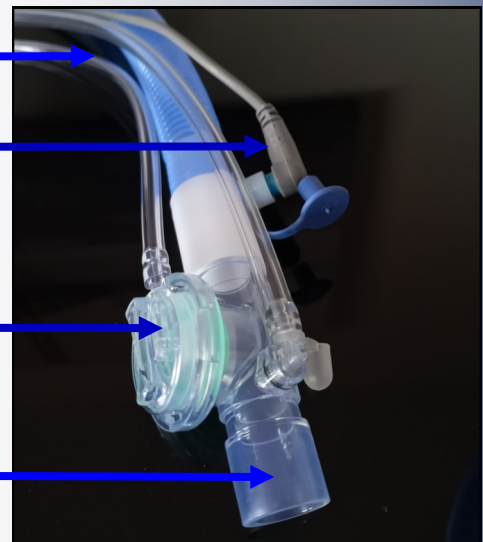
Exhalation Valve Assembly and Temperature Probe Port

Exhalation Valve tube: connect to ventilator

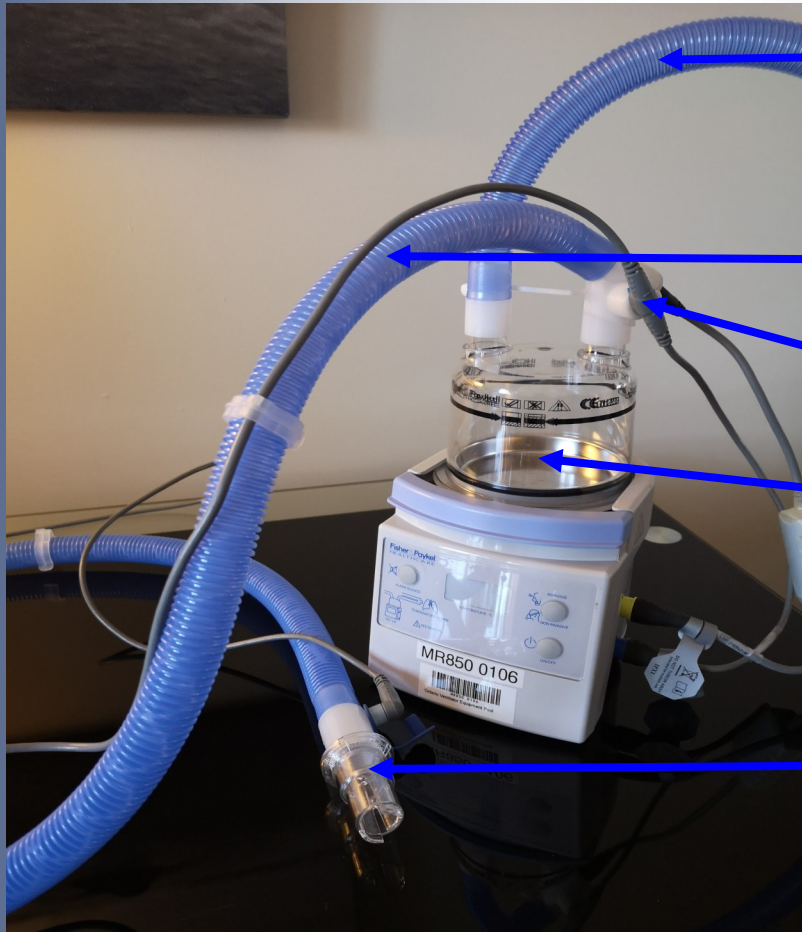
Temperature Probe: make sure securely in place

Exhalation Valve: connect at patient end of
circuit after temperature probe connector

To patient connection



Disposable Fisher and Paykel™ Passive Heated Wire Circuit (RT 114) with Reusable Water Chamber (HC 300)



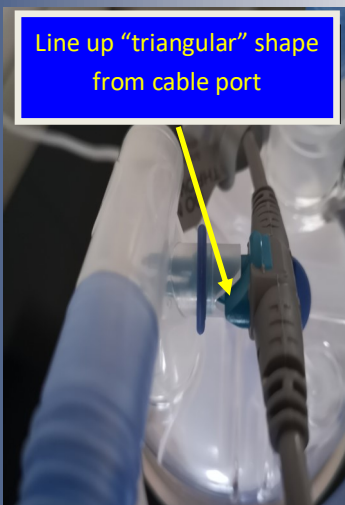
From Trilogy 200™ ventilator outlet

To Patient

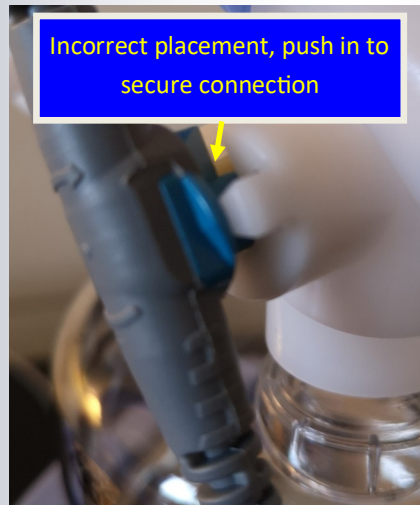
Heated Wire Port at outlet of humidifier (see below)

Reusable Humidifier Chamber (Fisher and Paykel™ (HC 300) provided separately

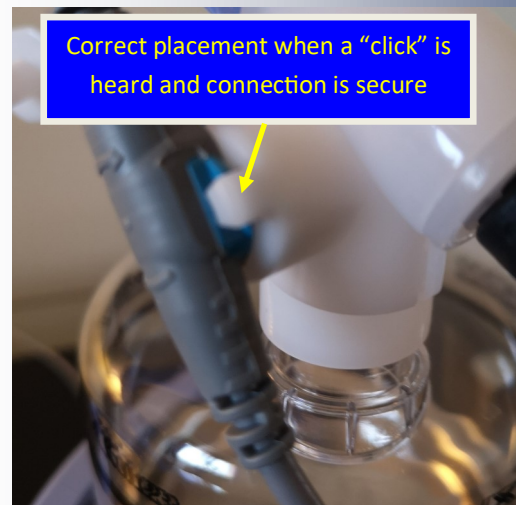
Leak Port must be present in circuit. Place leak port between the temperature probe port and the patient interface (connection to patient) (see [Leak Ports For Passive Circuits](#) page for examples of leak ports)



Line up "triangular" shape from cable port



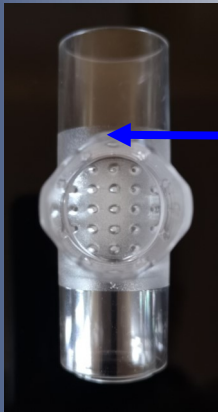
Incorrect placement, push in to secure connection



Correct placement when a "click" is heard and connection is secure

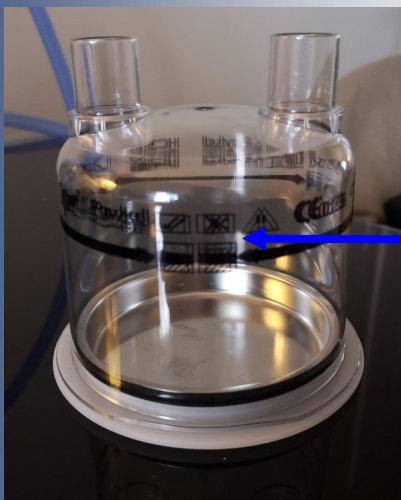
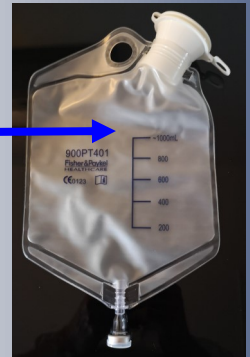
Ventilator Circuit Parts that can be Cleaned

Certain ventilator circuit parts may be cleaned and reused. Below you will find those parts that are **not** disposable and can be cleaned following manufacturers guidelines. Always check with you healthcare team if you are unsure whether a particular part can be cleaned and for methods for cleaning.



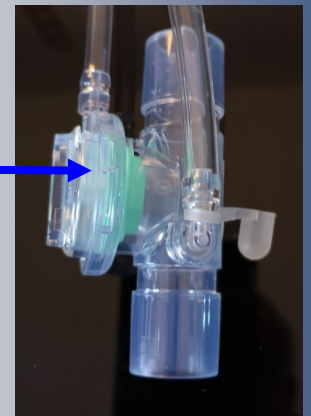
Leak Ports (see [Leak Ports for Passive Circuits](#) page for additional leak port devices)

Fisher and Paykel™
Water Bag



Reusable Humidifier (HC 300)

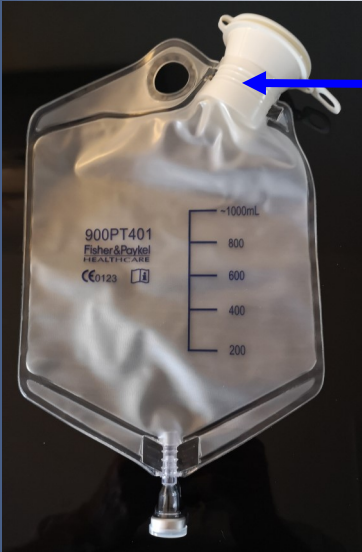
Reusable Exhalation Valve (for Active
PAP and Active Flow Circuits only)



Heater Wire Adapter and Temperature Probe Cables:
tagged: do not throw away, intended for multiple use



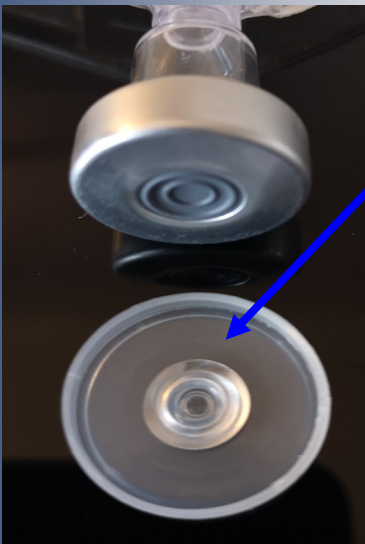
How to Use The Fisher and Paykel™ Water Bag



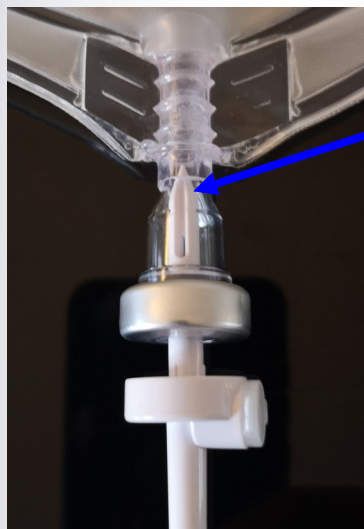
The Fisher and Paykel™ water bag (part number 900PT401) is to be used with the Fisher and Paykel Autofeed Humidifier Chamber (MR 290). It can hold up to 1 liter of sterile distilled water.



The Fisher and Paykel™ MR 290 Autofeed Humidifier Chamber comes with a “spigot” to connect to the water bag, and contains an internal water control mechanism to control the amount of water entering the chamber, thus allowing the chamber to “autofeed”, eliminating the need to add water to the chamber manually.

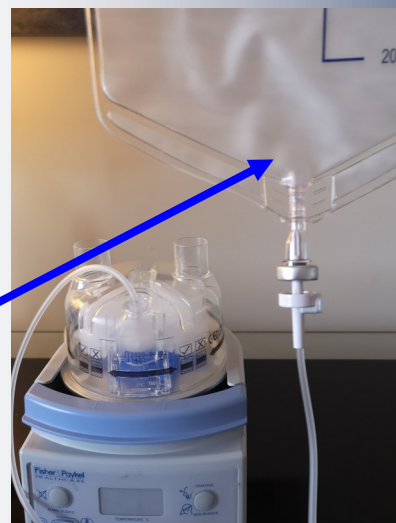


The water bag has a protective cap that must be removed before inserting the humidifier “spigot” into the bag



Insert the “spigot” securely into the water bag, making sure it is completely inserted to prevent water leakage at the connection.

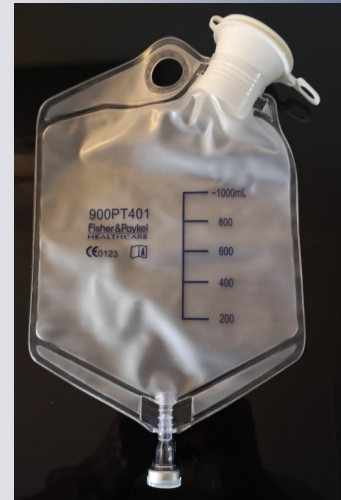
Fill the water bag with sterile distilled water and hang above the level of the humidifier chamber as the chamber “gravity” feeds the water automatically.



Care and Use of The Fisher and Paykel™ Water bag

Cleaning Instructions for the Fisher and Paykel Water bag can be found in the product packaging and include:

- The water bag should be disinfected weekly using chlorine-based sterilization tablets suitable for drink or baby bottles.
- Disinfect using “cold” water to prevent damage to the water bag.
- Replace the water bag every 60 days, or earlier if it becomes discolored.



Things to Remember When Using the Water Bag

- For safety, never overfill the water bag. It is designed to hold a maximum of 1 liter of sterile distilled water.
- Clean and disinfect the water bag regularly as per manufacturers guidelines included in packaging.
- Be mindful that the “spigot” attachment on the MR 290 humidifier is very sharp, use with caution.
- Insert the humidifier chamber “spigot” fully and securely into the water bag to prevent leakage.
- Never use a damaged water bag.
- Don’t “squeeze” water from the water bag to fill the humidifier chamber. The MR 290 humidifier chamber is designed to only have a “thin” level of water at the bottom of the chamber and is not designed to fill to the maximum fill line. Deliberately filling the chamber to the maximum fill line may damage the chamber and lead to overfilling.
- If you have any questions or concerns about using this product, you may contact the Ventilator Equipment Pool at 1-800-633-8977.
- This document can be found on our website at: www.ontvep.ca



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