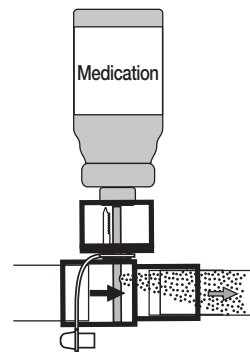


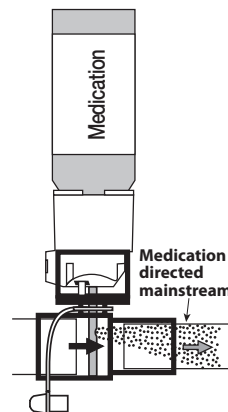
## G Canister Activation

- Prior to activation, make sure that the Pressurized Medicine Canister is fully seated in RTC 24-V.
  - While activating the Pressurized Medicine Canister, press the canister straight down without tilting.
  - Two hands may be necessary to keep canister aligned properly.
1. At the beginning of the inspiratory cycle, depress the Pressurized Medicine Canister by placing fingers underneath RTC 24-V and pressing top of canister with thumb.  
*If canister has a Dose Counter, it will be tripped by the Dose Counter Activator.*
  2. Remove Canister from RTC 24-V.
  3. Replace Rubber Cap.

Standard Canister



Canister with Dose Counter



## H Sterilization/Disinfection

- These products are designed for **Single Patient Reuse**. (Can be used to repeatedly administer medications to one single patient while installed in a breathing circuit.)
- These products are packaged as **non-sterile**. Instrumentation Industries, Inc. recommends processing before use. After installation into a breathing circuit, cleaning is not recommended. Discard when replacing the circuit according to facility guidelines.

### RTC 24-V/RTC 24-V KIT Sterilization/Disinfection Recommendations:

Carefully follow facility guidelines for preparing products and solutions for the sterilizing and disinfecting methods and equipment being used. Sterilization and High Level Disinfection Procedures have been validated for the following equipment and methods:

#### Sterilization

##### STERRAD 100S

Full short sterilization cycle (Hydrogen peroxide gas plasma, 55 minutes, 45°C - 55°C (113°F -131°F)).

#### High Level Disinfection

##### PASTEURIZATION

Pasteurize at 70°C +/- 3°C (153° - 163°F) for a minimum of 30 minutes.

##### CIDEX® OPA

Prepare Cidex® OPA solution.

Totally submerge adapter in the disinfectant.

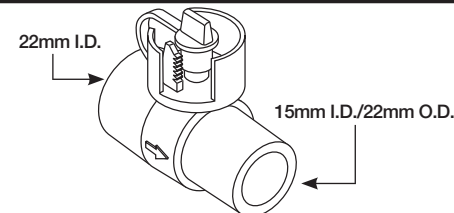
Immerse device completely, filling all lumens and eliminating air pockets, in CIDEX® OPA Solution for a minimum of 12 minutes at 20°C (68°F) to destroy all pathogenic microorganisms. Remove device from the solution and rinse thoroughly as per these rinsing instructions:

- Following removal from CIDEX® OPA Solution, thoroughly rinse the RTC 24-V/RTC 24-V KIT by immersing it completely in a large volume (e.g. 2 gallons) of water. Sterile water rinse is recommended unless potable water is acceptable.
- Keep the device totally immersed for a minimum of 1 minute in duration.
- Manually flush all devices with large volumes (not less than 100 mL) of rinse water.
- Remove the device and discard the rinse water. Always use fresh volumes of water for each rinse. Do not reuse the water for rinsing or any other purpose.
- Repeat the procedure TWO (2) additional times, for a total of THREE (3) RINSES, with large volumes of fresh water to remove CIDEX OPA Solution residues. Residues may cause serious side effects.
- Dry using sterile, lint-free cloths.

- Always carefully examine the physical integrity of this product after processing. Do not use if cracking or crazing is seen, or if parts fit together improperly after processing.

## I Product Specifications

### RTC 24-V



Model #	RTC 24-V	
Type	Metered Dose Inhaler Adapter	
Use	Single Patient Reuse	
Port Sizes	Inlet	22mm I.D.
	Outlet	15mm I.D./22mm O.D.
Dimensions	Length	2 in.
	Width	1.1 in.
	Height	2 in.
Materials	Body	Polystyrene-Butadiene
	Cap	Thermoplastic Rubber
Color	Body	Clear
	Cap	Clear

### RTC 24-V KIT

Model #	RTC 24-V KIT	
Use	Single Patient Reuse	
Kit includes one each:		
1. Model #	RTC 24-V	See Above
2. Model #	KC 004-5	
Type	22mm I.D. Tubing	
Dimensions	Length 4 in. Width 1 in.	
Material	Polyolefin Plastomer	
Color	Transparent	
3. Model #	KC 2124	
Type	Adult Adapter	
Port Sizes	15mm I.D./22mm O.D. x 15mm I.D./22mm O.D.	
Dimensions	Length 1.9 in. Width 1.1 in.	
Material	Polystyrene-Butadiene	
Color	Clear	

Instrumentation Industries, Inc.

# MDI Adapter

Installation & Usage Directions



## RTC 24-V RTC 24-V KIT

For use with metered dose inhaler canisters, with or without a dose counter, with standard size metal (.109 inch diameter) or plastic (.124 inch diameter) stems.

### Single Patient Reuse

Can be used to repeatedly administer medications to one single patient while installed in a breathing circuit

- Not made with Natural Rubber Latex
- Not made with Di(2-ethylhexyl) phthalate (DEHP)
- Not made with Bisphenol A (BPA)

These user instructions are available in Canadian French at [iiimedical.com](http://iiimedical.com)

Ces instructions d'utilisation sont disponibles en français canadien à [iiimedical.com](http://iiimedical.com)

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## A Indications for Use

### RTC 24-V – Metered Dose Inhaler Adapter

### RTC 24-V KIT – Metered Dose Inhaler Adapter Kit

The Instrumentation Industries, Inc. RTC 24-V MDI Adapter and RTC 24-V KIT MDI Adapter Kit are actuators for intermittent delivery of prescribed aerosol medication dispensed in cylindrical-style metered dose inhalers. The RTC 24-V MDI Adapter and RTC 24-V KIT MDI Adapter Kit are intended for use only when connected to ventilator tubing or tracheal tubes.

The RTC 24-V MDI Adapter and RTC 24-V KIT MDI Adapter Kit are intended to be prescribed for any patient who is ventilator-dependent and to whom a metered dose inhaler has been prescribed. The expected clinical environment for the RTC 24-V MDI Adapter and RTC 24-V KIT MDI Adapter Kit is Critical Care and/or long term or short term ventilation.

The components of the RTC 24-V KIT consist of one RTC 24-V MDI Adapter, one four inch length of 22mm inner-diameter tubing, and one 15mm inner-diameter/22mm outer-diameter adapter.

The RTC 24-V MDI Adapter and RTC 24-V KIT MDI Adapter Kit are intended for sale by or on the order of a physician.

## B Contraindications

None known.

## C Notes

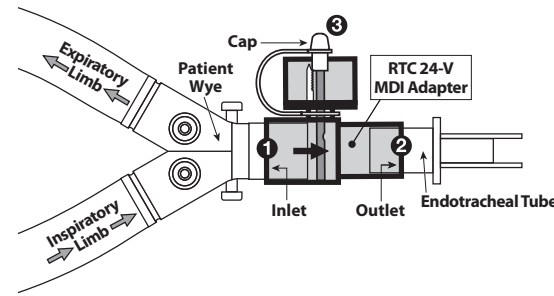
- All illustrations are examples.
- Consult facility validated procedures for desired placement.

## D RTC 24-V – Installation Directions

### RTC 24-V – Placed at Endotracheal Tube

1. Connect RTC 24-V Inlet to Patient Wye, as shown. ①
2. Connect RTC 24-V Outlet to Endotracheal Tube. ②
3. Ensure that Rubber Cap is placed on MDI Activator Port until MDI canister is inserted. ③

*Direction arrow on RTC 24-V must be pointing in the direction of airflow.*

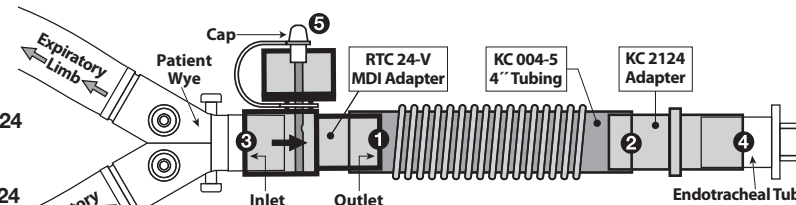


## E RTC 24-V KIT – Installation Directions

### RTC 24-V KIT – Placed at Endotracheal Tube

• RTC 24-V MDI Adapter • KC 004-5 Tubing • KC 2124 Adapter

1. Assemble RTC 24-V, KC 004-5, and KC 2124 before connecting to the Patient Circuit.
  - a. Connect RTC 24-V Outlet to KC 004-5. ①
  - b. Connect RTC 24-V/KC 004-5 to KC 2124. ②
2. Connect RTC 24-V/KC 004-5/KC 2124 Assembly to Patient Wye at RTC 24-V Inlet, as shown. ③
3. Connect RTC 24-V/KC 004-5/KC 2124 Assembly to Endotracheal Tube at KC 2124. ④
4. Ensure that Rubber Cap is placed on MDI Activator Port until MDI canister is inserted. ⑤

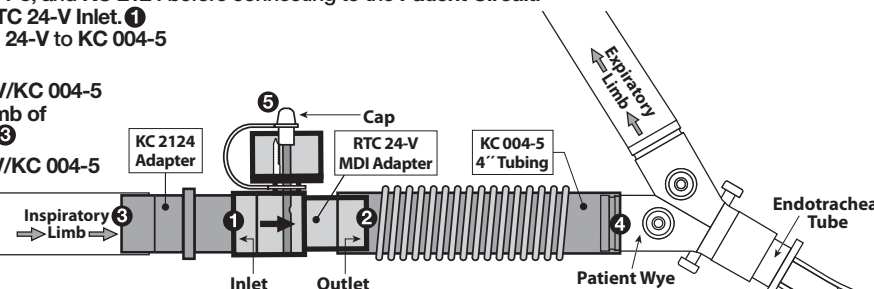


*Direction arrow on RTC 24-V must be pointing in the direction of airflow.*

### RTC 24-V KIT – Placed Inline

• RTC 24-V MDI Adapter • KC 004-5 Tubing • KC 2124 Adapter

1. Assemble RTC 24-V, KC 004-5, and KC 2124 before connecting to the Patient Circuit.
  - a. Connect KC 2124 to RTC 24-V Inlet. ①
  - b. Connect KC 2124/RTC 24-V to KC 004-5 at RTC 24-V Outlet. ②
2. Connect KC 2124/RTC 24-V/KC 004-5 Assembly to Inspiratory Limb of Patient Circuit at KC 2124. ③
3. Connect KC 2124/RTC 24-V/KC 004-5 Assembly to Patient Wye at KC 004-5. ④
4. Ensure that Rubber Cap is placed on MDI Activator Port until MDI canister is inserted. ⑤



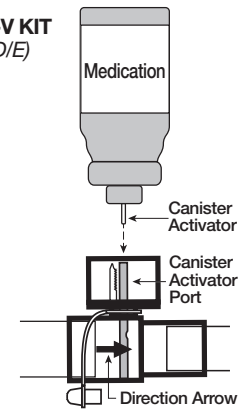
*Direction arrow on RTC 24-V must be pointing in the direction of airflow.*

## F Canister Insertion

### Standard Canister

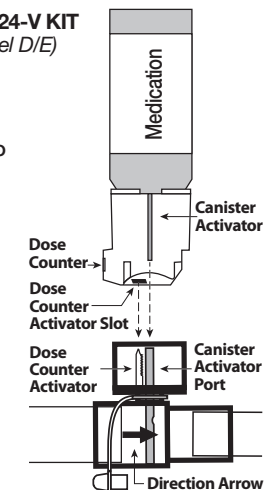
1. Install RTC 24-V/RTC 24-V KIT in Patient Circuit. (panel D/E)
2. Remove Rubber Cap from RTC 24-V.
3. Insert Pressurized Medicine Canister into top of RTC 24-V.
4. Ensure that Canister Activator is inserted into Canister Activator Port.

*Note: Standard Canisters are not stable after insertion into RTC 24-V. Constant support between Standard Canister and RTC 24-V must be provided.*



### Canister with Dose Counter

1. Install RTC 24-V/RTC 24-V KIT in Patient Circuit. (panel D/E)
2. Remove Rubber Cap from RTC 24-V.
3. Insert Pressurized Medicine Canister into top of RTC 24-V with Dose Counter facing away from Direction Arrow.
4. Ensure that Canister Activator is inserted into Canister Activator Port.
5. Ensure that Dose Counter Activator is inserted into Dose Counter Activator Slot.



Visit [iiimedical.com/symbols.pdf](http://iiimedical.com/symbols.pdf) for the Glossary of Symbols used in Instrumentation Industries, Inc. labeling.

