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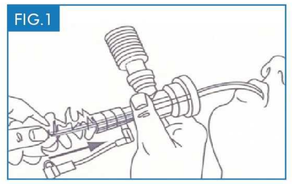
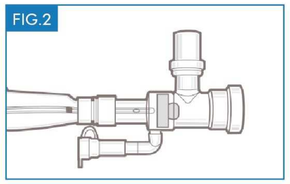
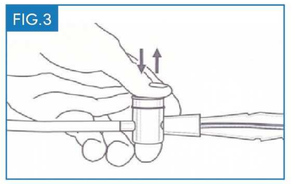
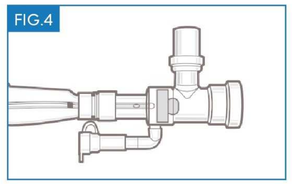
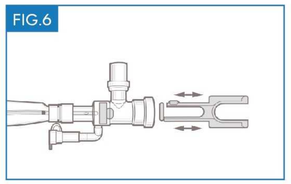
Instructions for use











Setup:

1. Select appropriate size catheter.
2. Attach thumb control valve to suction tubing.
3. Depress and hold thumb valve and simultaneously adjust vacuum regulator to desired level.
4. Release thumb control valve and attach catheter between patient and the ventilator circuit.

Suggested Suction Procedure:

1. Stabilize catheter and endotracheal (ET) adapter with one hand then push the catheter into the endotracheal tube with the thumb and forefinger of the opposite hand (Fig1)
2. Advance catheter to desired depth.
3. Depress and hold thumb control valve, then gently withdraw catheter. Stop withdrawal when black marking ring is visible inside sleeve (Fig2)
4. Release thumb control valve .
5. Instill desired amount of fluid by syringe (other flush infusion set) into the irrigation port. Depress and hold thumb control valve while flushing.
6. After flushing the tube tip, remove syringe and close the cap on the irrigation port.
7. Repeat steps1 through 6 above as necessary.
8. It is intended to be used for 72 hours before changing. Change more frequently if catheter becomes heavily soiled during use.
9. The maximum sputum suction pressure for adults does not exceed 150mmHg, and the sputum suction pressure for infants and children is 80-100mmHg. The actual sputum suction time is recommended not to exceed 15s.

Patient Lavage Instructions:

1. For intubated patient, advance catheter 10-13cm (4-5 inches) into the endotracheal tube. For tracheostomy patient, advance the catheter 3-4 cm (1.5-2 inches) into the tracheostomy tube.
2. Advance catheter to desired depth and follow the above suggested suction procedure.

Catheter Irrigation Instruction:

1. Be sure the black marking ring is visible in the sleeve (Fig 2). Open cap on irrigation port.
2. Insert syringe into irrigation port and release your hand.
3. Depress the thumb control valve (Fig3) until the catheter and chamber are clear (Fig4).
4. Remove syringe and close cap on the irrigation port.
5. Lift and turn thumb control valve 180 degrees to lock position (Fig5)
6. Place catheter and suction tubing alongside breathing circuit.

Tracheostomy Patients:

1. Use tracheostomy 30cm (12 inch) catheters for patients with tracheostomy artificial airway only. If 30cm catheter is used on endotracheal artificial airway, ineffective suction may result.
2. Do not use 60cm (23.6 inch) catheters on tracheostomy patients. Mucosal damage may result.

Control Depth Suction (For catheters with numerical markings only)

1. Align any printed depth number on the catheter with the similar number printed on the endotracheal tube, or observe the printed number on the endotracheal tube closest to the endotracheal tube adapter.
2. Add 6 cm to this number.
3. Advance catheter untill the sum (depth plus 6) appears in the window directly across from irrigation port connector.
4. Catheter tip will be within 1 cm of the end of the artificial airway.

Thumb Control Valve Operation:

The thumb control valve can be locked to prevent inadvertent or accidental suction. To lock, lift white part of thumb control valve and rotate 180 degrees. To unlock, repeat this action (Fig5).

Closed Suction System Automatic Flushing 72H

Double Swivel Elbow

L-type 72 hour gas plug-in automatic switch
For Endotracheal Tube

L-type 72 hour gas cutting - automatic switch
For Tracheotomy tube

- Automatic Flushing Closed Suction System is the catheter that retracts within an isolated tubulent cleaning chamber. This reduced colonization may help reduce risk of VAE and VAP in your ventilated patients.
- Turbulent cleaning chamber creates cleansing action, resulting in a cleaner catheter.
- Hinged valve isolates catheter tip and helps prevent inadvertent lavage.
- Unique blue soft tip design reduces damage to the patients.

Product code	Size	Colour Code	Tube OD (mm)	Length of Tube (mm)
MC-07210	Adult/72H/Endotracheal	Black	10Fr (3.35mm)	600mm
MC-07211	Adult/72H/Endotracheal	White	12Fr (4.05mm)	600mm
MC-07212	Adult/72H/Endotracheal	Green	14Fr (4.75mm)	600mm
MC-07213	Adult/72H/Endotracheal	Orange	16Fr(5.45mm)	600mm
MC-07200	Adult/72H/Tracheostomy	Black	10Fr (3.35mm)	300mm
MC-07201	Adult/72H/Tracheostomy	White	12Fr (4.05mm)	300mm
MC-07202	Adult/72H/Tracheostomy	Green	14Fr (4.75mm)	300mm
MC-07203	Adult/72H/Tracheostomy	Orange	16Fr(5.45mm)	300mm

Closed Suction System Automatic Flushing 72H

T-Piece

- Automatic Flushing Closed Suction System is the catheter that retracts within an isolated tubulent cleaning chamber. This reduced colonization may help reduce risk of VAE and VAP in your ventilated patients.
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- Hinged valve isolates catheter tip and helps prevent inadvertent lavage.
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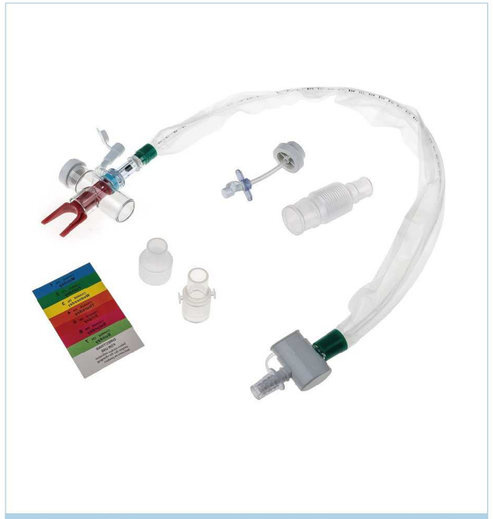


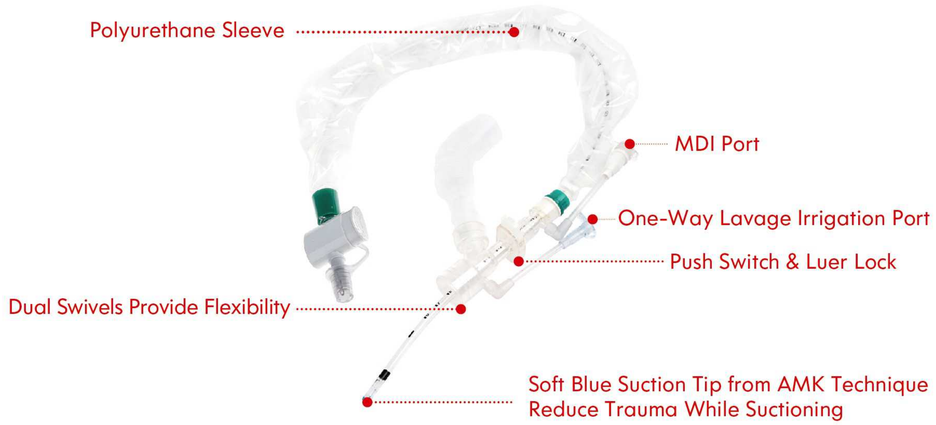
T-type 72 hour gas plug-in automatic switch
For Endotracheal Tube

T-type 72 hour gas cutting - automatic switch
For Tracheotomy tube

	Product code	Size	Colour Code	Tube OD (mm)	Length of Tube (mm)
	MC-07230	T-Piece Adult /72H/Endotracheal	Black	10Fr (3.35mm)	600mm
	MC-07231	T-Piece Adult /72H/Endotracheal	White	12Fr (4.05mm)	600mm
	MC-07232	T-Piece Adult /72H/Endotracheal	Green	14Fr (4.75mm)	600mm
	MC-07233	T-Piece Adult /72H/Endotracheal	Orange	16Fr(5.45mm)	600mm
	MC-07220	T-Piece Adult /72H/Tracheostomy	Black	10Fr (3.35mm)	300mm
	MC-07221	T-Piece Adult /72H/Tracheostomy	White	12Fr (4.05mm)	300mm
LOT nr. 196	MC-07222	T-Piece Adult /72H/Tracheostomy	Green	14Fr (4.75mm)	300mm
LOT nr. 195	MC-07223	T-Piece Adult /72H/Tracheostomy	Orange	16Fr(5.45mm)	300mm

Closed Suction System Single Lumen 72 H

Double Swivel Elbow & Push Switch



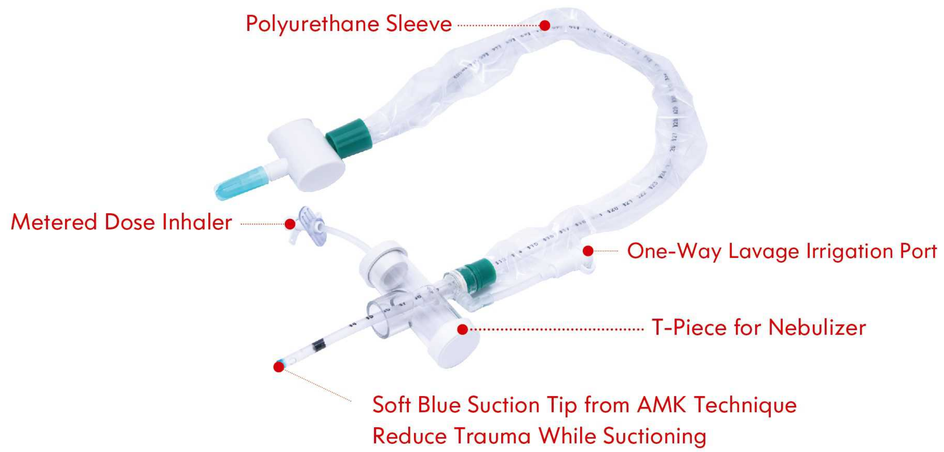
DISPOSABLE CLOSED SUCTION CATHETERS 72 HOURS

- The smart design of the Closed Suction Catheters allows the patients' breath-mechanical ventilation and suctioning simutaneously.
- Push switch and Luer lock. This design can keep breathing and isolate the turbulent cleaning chamber, and prevent spray back, which reduces the risk of VAP (ventilator-associated pneumonia) for ventilated patients.
- Prevent cross infection. The closed suction systems are designed with protective sleeve to isolate the germs inside the patients and help caregivers avoid cross infection.
- Soft and smooth blue suction tip. This design reduces damage to mucous membranes.
- Double swivel connectors reduce strain on ventilator tubing.
- Easy operation in suction process by being equipped with a wedge (separator) to disconnect and clip functions.
- Available for tracheostomy tubes. The suction catheters match tracheostomy tubes, of which different lengths are available. The catheters are marked with accurate depth to understand the proper catheter insertion in the trachea.
- The design of push switch and Luer lock can reduce the risk of VAP for ventilated patients.

Product Code	Size	Colour Code	Tube OD (mm)	Length of Tube (mm)
MC-07240	Adult/72H/Tracheostomy	Black	10Fr (3.35mm)	300mm
MC-07241	Adult/72H/Tracheostomy	White	12Fr (4.05mm)	300mm
MC-07242	Adult/72H/Tracheostomy	Green	14Fr (4.75mm)	300mm
MC-07243	Adult/72H/Tracheostomy	Orange	16Fr(5.45mm)	300mm
MC-07250	Adult/72H/Endotracheal	Black	10Fr (3.35mm)	600mm
MC-07251	Adult/72H/Endotracheal	White	12Fr (4.05mm)	600mm
MC-07252	Adult/72H/Endotracheal	Green	14Fr (4.75mm)	600mm
MC-07253	Adult/72H/Endotracheal	Orange	16Fr(5.45mm)	600mm

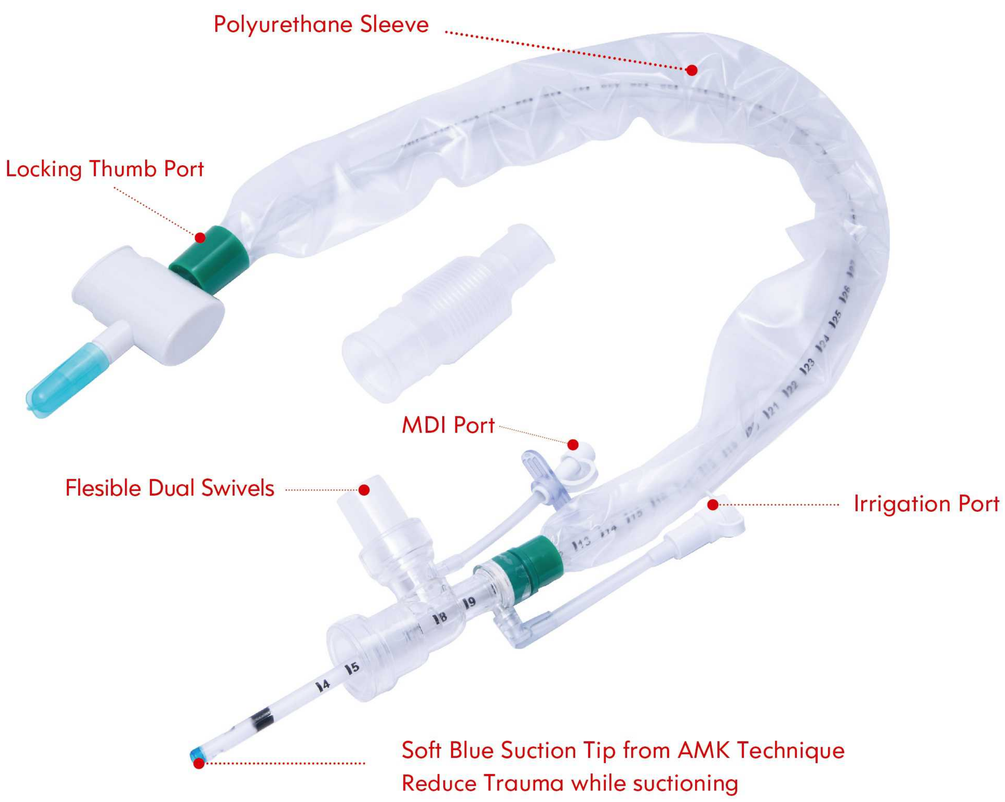
Closed Suction System (T-piece) 24 H

- With T-Piece, 15mm Swivel Adapter, 22mm Flex Tube, and built in MDI Adapter, the Closed Suction Systems (T-piece) are designed to safely suction the sputum of the patients on mechanical ventilation by removing secretions from the airway, while maintaining ventilation and oxygenation throughout the suctioning procedure.



Product Code	Size	Colour Code	Tube OD (mm)	Length of Tube (mm)
MC-02420	T-Piece Neonatal /24H/Tracheostomy	Grey	5Fr (1.7mm)	300mm
MC-02421	T-Piece Neonatal /24H/Tracheostomy	Light Green	6Fr (1.95mm)	300mm
MC-02422	T-Piece Pediatric /24H/Tracheostomy	Ivory	7Fr (2.3mm)	300mm
MC-02423	T-Piece Pediatric /24H/Tracheostomy	Light Blue	8Fr (2.7mm)	300mm
MC-02424	T-Piece Adult /24H/Tracheostomy	Black	10Fr (3.35mm)	300mm
MC-02425	T-Piece Adult /24H/Tracheostomy	White	12Fr (4.05mm)	300mm
MC-02426	T-Piece Adult /24H/Tracheostomy	Green	14Fr (4.75mm)	300mm
MC-02427	T-Piece Adult /24H/Tracheostomy	Orange	16Fr (5.45mm)	300mm
MC-02430	T-Piece Neonatal /24H/Endotracheal	Grey	5Fr (1.7mm)	300mm
MC-02431	T-Piece Neonatal /24H/Endotracheal	Light Green	6Fr (1.95mm)	300mm
MC-02432	T-Piece Pediatric /24H/Endotracheal	Ivory	7Fr (2.3mm)	300mm
MC-02433	T-Piece Pediatric /24H/Endotracheal	Light Blue	8Fr (2.7mm)	300mm
MC-02434	T-Piece Adult /24H/Endotracheal	Black	10Fr (3.35mm)	600mm
MC-02435	T-Piece Adult /24H/Endotracheal	White	12Fr (4.05mm)	600mm
MC-02436	T-Piece Adult /24H/Endotracheal	Green	14Fr (4.75mm)	600mm
MC-02437	T-Piece Adult /24H/Endotracheal	Orange	16Fr (5.45mm)	600mm

Closed Suction System Single Lumen 24 H



- The Closed Suction Catheter is a suctioning device to remove secretions from patients receiving mechanical ventilation.
- Soft and smooth blue suction tip. This design reduces damage to mucous membranes.
- Allows the patients' breath-mechanical ventilation and suctioning simultaneously.
- Prevent cross infection. The PU protective sleeve can protect the caregivers from infection.
- Double swivel connectors reduce strain on ventilator tubing.
- Easy operation in suction process by being equipped with a wedge to disconnect and clip functions.
- Available for tracheostomy tubes. The suction catheters match tracheostomy tubes, of which different lengths are available. The catheters are marked with accurate depth to understand the proper catheter insertion in the tracheal.
- Color coded rings provide fast recognition

Product code	Size	Colour Code	Tube OD (mm)	Length of Tube (mm)
MC-02400	Neonatal/24H/Tracheostomy	Grey	5Fr (1.7mm)	300mm
MC-02401	Neonatal/24H/Tracheostomy	Light Green	6Fr (1.95mm)	300mm
MC-02402	Pediatric/24H/Tracheostomy	Ivory	7Fr (2.3mm)	300mm
MC-02403	Pediatric/24H/Tracheostomy	Light Blue	8Fr (2.7mm)	300mm
MC-02404	Adult/24H/Tracheostomy	Black	10Fr (3.35mm)	300mm
MC-02405	Adult/24H/Tracheostomy	White	12Fr (4.05mm)	300mm
MC-02406	Adult/24H/Tracheostomy	Green	14Fr (4.75mm)	300mm
MC-02407	Adult/24H/Tracheostomy	Orange	16Fr (5.45mm)	300mm
MC-02410	Neonatal/24H/Endotracheal	Grey	5Fr (1.7mm)	300mm
MC-02411	Neonatal/24H/Endotracheal	Light Green	6Fr (1.95mm)	300mm
MC-02412	Pediatric/24H/Endotracheal	Ivory	7Fr (2.3mm)	300mm
MC-02413	Pediatric/24H/Endotracheal	Light Blue	8Fr (2.7mm)	300mm
MC-02414	Adult/24H/Endotracheal	Black	10Fr (3.35mm)	600mm
MC-02415	Adult/24H/Endotracheal	White	12Fr (4.05mm)	600mm
MC-02416	Adult/24H/Endotracheal	Green	14Fr (4.75mm)	600mm
MC-02417	Adult/24H/Endotracheal	Orange	16Fr (5.45mm)	600mm

Closed Suction System Child Type 24 H

- DISPOSABLE PEDIATRIC CLOSED SUCTION CATHETERS 24 HOURS
- The smart design of the Closed Suction Catheters allows the patients' breath-mechanical ventilation and suctioning simutaneously.
- Y connector type. ET "Y" neonatal and pediatric care adaptors are available for 5, 6, 7, 8, French sizes closed suction catheter.
- Prevent cross infection. The closed suction systems are designed with protective sleeve to isolate the germs inside the patients and help caregivers avoid cross infection.
- Soft and smooth blue suction tip. This design reduces damage to mucous membranes.
- Irrigation port with non-return. valve which prevents back flow leakage during washing and aerosolized secretion contamination.

Closed Suction System Child Type 24 H

- Available for tracheostomy tubes. The suction catheters match different sizes of endotracheal tubes. The catheters are marked with accurate depth to understand the proper catheter insertion in the trachea.

Closed Suction System Child Type 24 H

Product code	Size	Colour Code	Tube OD (mm)	Length of Tube (mm)
MC-02440	Neonatal/24H	Grey	5Fr (1.7mm)	300mm
MC-02441	Neonatal/24H	Light Green	6Fr (1.95mm)	300mm
MC-02442	Pediatric/24H	Ivory	7Fr (2.3mm)	300mm
MC-02443	Pediatric/24H	Light Blue	8Fr (2.7mm)	300mm
MC-02444	Pediatric & Child/24H	Black	10Fr (3.35mm)	400mm
MC-02445	Big Child/24H	White	12Fr (4.05mm)	400mm

Simple Design for Both Child and Adult

- The Closed Suction Catheter is a suctioning device to remove secretions from patients receiving mechanical ventilation.
- Soft and smooth blue suction tip. This design reduces damage to mucous membranes.
- Allow the patients' breath-mechanical ventilation and suctioning simultaneously.
- Prevent cross infection. The PU protective sleeve can protect the caregivers from infection.
- Easy operation in suction process by being equipped with a wedge to disconnect and clip functions.
- Available for tracheostomy tubes. The suction catheters match tracheostomy tubes, of which different lengths are available. The catheters are marked with accurate depth to understand the proper catheter insertion in the tracheal.
- Color coded rings provide fast recognition

Product code	Size	Colour Code	Tube OD (mm)	Length of Tube (mm)
MC-24SL0	Simple Neonatal/24H/Tracheostomy	Grey	5Fr (1.7mm)	300mm
MC-24SL1	Simple Neonatal/24H/Tracheostomy	Light Green	6Fr (1.95mm)	300mm
MC-24SL2	Simple Pediatric/24H/Tracheostomy	Ivory	7Fr (2.3mm)	300mm
MC-24SL3	Simple Pediatric/24H/Tracheostomy	Light Blue	8Fr (2.7mm)	300mm
MC-24SL4	Simple Adult/24H/Tracheostomy	Black	10Fr (3.35mm)	600mm
MC-24SL5	Simple Adult/24H/Tracheostomy	White	12Fr (4.05mm)	600mm
MC-24SL6	Simple Adult/24H/Tracheostomy	Green	14Fr (4.75mm)	600mm
MC-24SL7	Simple Adult/24H/Tracheostomy	Orange	16Fr (5.45mm)	600mm
MC-24SE0	Simple Neonatal/24H/Endotracheal	Grey	5Fr (1.7mm)	300mm
MC-24SE1	Simple Neonatal/24H/Endotracheal	Light Green	6Fr (1.95mm)	300mm
MC-24SE2	Simple Pediatric/24H/Endotracheal	Ivory	7Fr (2.3mm)	300mm
MC-24SE3	Simple Pediatric/24H/Endotracheal	Light Blue	8Fr (2.7mm)	300mm
MC-24SE4	Simple Adult/24H/Endotracheal	Black	10Fr (3.35mm)	600mm
MC-24SE5	Simple Adult/24H/Endotracheal	White	12Fr (4.05mm)	600mm
MC-24SE6	Simple Adult/24H/Endotracheal	Green	14Fr (4.75mm)	600mm
MC-24SE7	Simple Adult/24H/Endotracheal	Orange	16Fr (5.45mm)	600mm