RVENT

MEMBER OF PLASTIFLEX GROUP

CRITICAL CARE
RESPIRATORY CARE
ANESTHESIA

CATALOGUE

www.rventmedikal.com

Rev. 15

INTRODUCTION

R-Vent Medikal was founded in 2015 with confidence and value. Located in İzmir, Turkey, R-Vent is a professional enterprise in the field of researching, manufacturing, marketing and servicing disposable medical devices. We provide flexible patient solutions for airway management, anesthesia, critical care and oxygen & aerosol therapy for use within emergency care, the hospital environment and also in the home. All products have been clinically tested. A dynamic and inventive company, R-Vent enjoys International success via export to Europe, North and South America, Asia, Africa and Australia continents, growing up with the warmest welcome by its devoted customers.

Biocompatible raw materials used in production are in conformity to USP and ISO 10993 standards. In-house acceptance controls are also performed to meet the stringent demands of our quality system. Extrusion, injection and blow molding processes are performed in controlled environments. Product assembly and packaging are performed in class 10.000 and 100.000 clean rooms. Disposable medical devices are packaged in clean rooms using fully automated equipment with validated processes and packaging materials. Our goal is to continuously supply high quality medical devices to healthcare professionals all over the world and to ensure that these products fully comply to both national and international regulatory and customer requirements. All products bear the CE mark demonstrating compliance with the Medical Device Directive 93/42/EEC. R-Vent Quality Management System is certified according to ISO 13485:2016.

A specialist in Anesthesiology, R-Vent aims to extend its product range over the time. R-Vent commits to research and development of new products while aiming to be at the fore front of advancements in anesthesiology.

R-Vent proudly stands for its ability to serve you with OEM and ODM Services which assist you to find the best product that accommodates your unique requirement. We are dedicated to supply high quality components tailored to individual customer requirements. In the core of business, all staff holds the same belief; ''We care for patients with quality products.'' The company runs many projects with world-wide multinational healthcare providers R-Vent products, services and activities have an environmental dimension. We follow a sustainable development policy in line with the move to a cleaner and healthier world for future generations. We strive to protect and improve healthcare and welfare of the humanity.

CE 2195   EN ISO 13485:2016

OUR MISSION

Our mission is to become a distinguished company which produces and supplies reliable, high class, cost - effective, affordable medical products for the improvement for the quality of human life.

OUR VISION

We are dedicated to be admired by both our customers and partners all around the world for the best quality of our products and services. We not only aim to be good in healthcare, but also in welfare of all humanity.
We suggest; **TAKE A NEW BREATH WITH RVENT.**

CORE VALUES

• Prosperity of humanity
• Honesty
• Leadership
• Teamwork
• Customer orientation
• Innovation
• Dynamism
• Creativity
• Sustainability
• Continuous development

QUALITY POLICY

Our quality policy in R-Vent Medikal is;
• To be an innovative and leading company in medical device industry
• To provide the market with competitive prices without compromising product quality and our core values
• To keep customer satisfaction at utmost level
• To comply with ISO & FDA Standards
• To improve product quality by implementation of international standards
• To ensure that each employee in the organization adopts the same vision, mission and core values

ENVIRONMENTAL, HEALTH AND SAFETY POLICY

R-Vent Medikal dedicates itself to the welfare of humanity. Company has social responsibility concerning environmental, health and safety issues. We assure;
• To implement environmental, health and safety practices in work environments and for our employees
• To use energy sources efficiently
• To conserve natural resources and minimize the waste
• To inform and raise awareness among all our employees
• To operate all company facilities in compliance with environmental legislations

A GUIDE TO OUR CONNECTORS
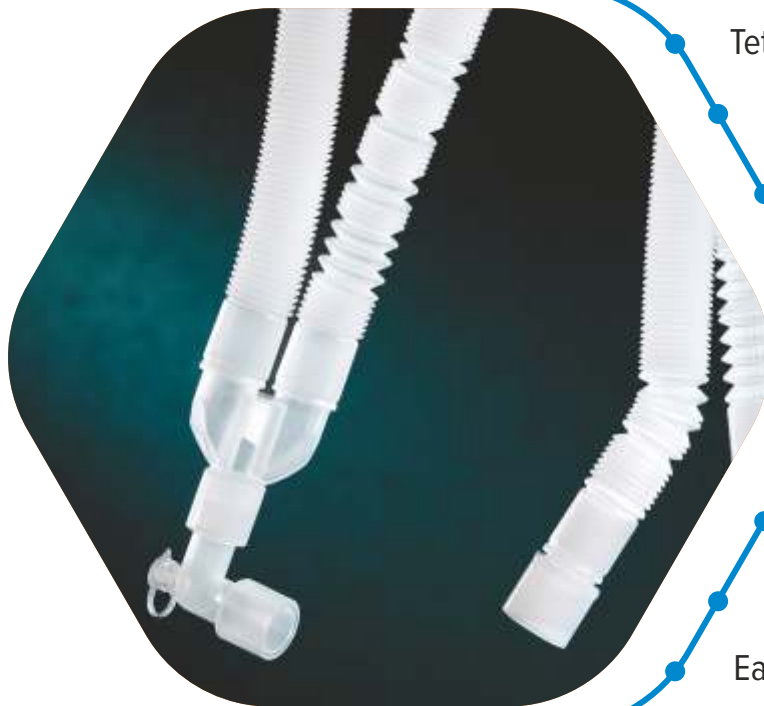
- Tethered&luer cap options
- Good flow characteristics
- Better handling
- Good pull of force
- No glue
- Unique click design
- Airtight fit
- No leakage
- Easy handling angle

A GUIDE TO OUR WATERTRAPS

- Unique open/close click mechanism It clicks when closed
- Transparent cup
- R-Vent color code in housing
- Double seal technology
- No TPE seal, no risk of leakage regardless of temperatures

RVENT

A GUIDE TO OUR TUBINGS
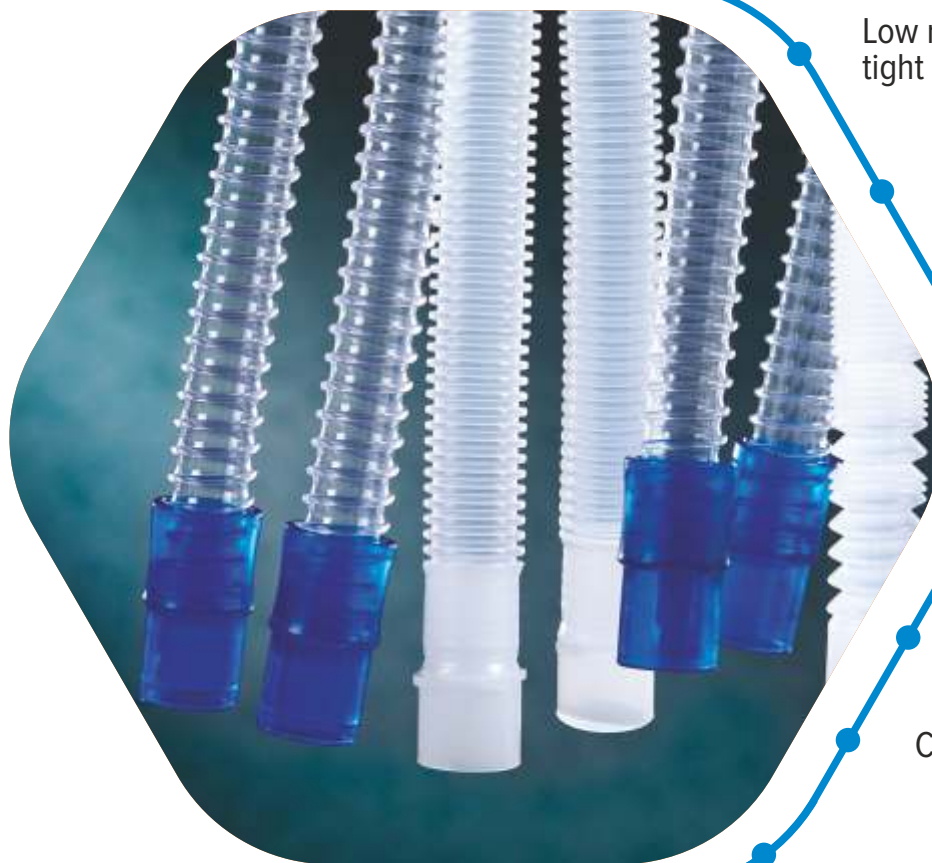
Low risk of leakage with tight notch connections

Crush-proof thereby eliminating any risk of ventilation being interrupted

Available in all colours

Minimum condensation build-up in the circuit

Less bacterial growth

Lower kinking risk

Comply with ISO 5367:2015

Corrugated Tubings
- Light weight and economical system
- Corrugated inside
- Flexible, elastic within the tube
- 4 different sizes; 26mm, 22mm, 15mm, 10mm
- Raw material PE

Extendible Tubings
- Easy positioning for convenient usage and storage
- Ability to store a memory, easy set-up for further usages
- 2 different sizes; 22mm,15mm
- Raw material PP

Smoothbore Tubings
- Reinforced by an external helix while inner surface is smooth
- Low flow resistance
- No water accumulation
- Low compliance
- 2 different sizes; 19 mm, 15 mm
- Raw material PVC
- PHT and DEHP Free

A GUIDE TO OUR CATHETER MOUNTS
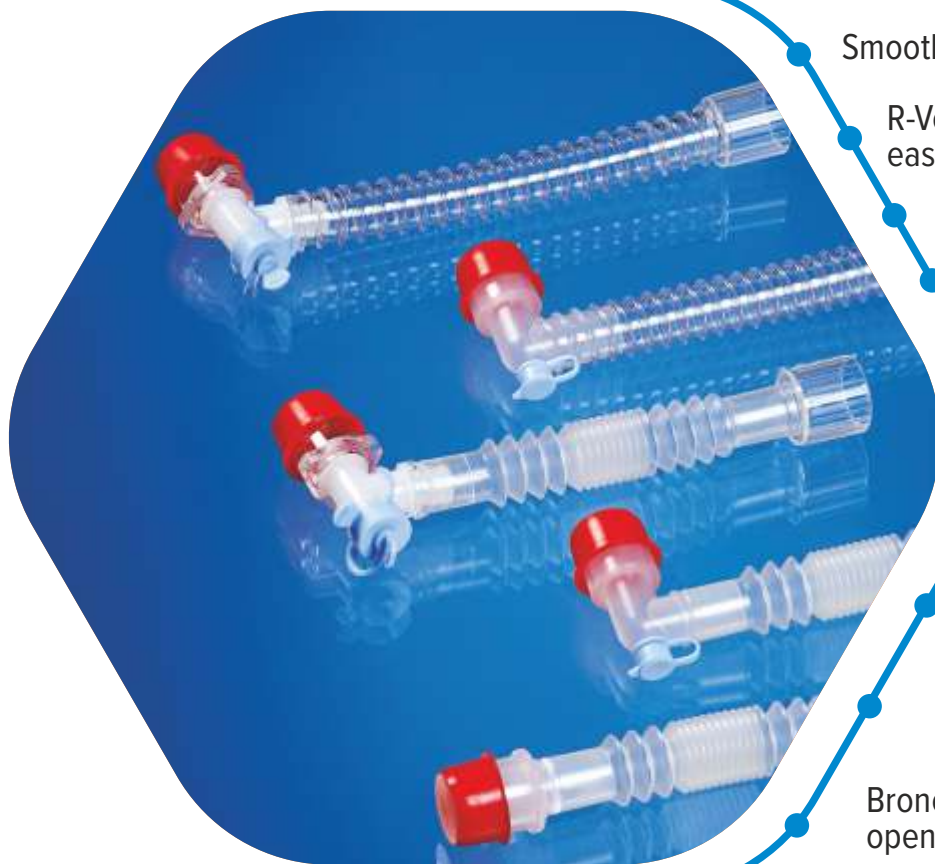
Smoothbore, extendible, corrugated versions

R-Vent color code in ports for ease of observation

Low compliance

Red safety cap option

Sterile/Nonsterile options

Phtalate-Latex Free

Good flow characteristics

Transparent, clear to see

Unique design with no leakage, easily rotating swivel ports

Bronchoscopy and suction ports first tab open bronchoscope mode with seal second full cap open suction mode

A GUIDE TO OUR FILTERS

Adult type Bacterial Filter, Transparent housing

Biocompatibility tested

Tested at TIM Laboratories, Germany
• HME efficiency
• Resistance to flow

Tested at Nelson Laboratories, USA
• Bacterial- Viral efficiency & ISO 23328-1

Sterile/Nonsterile options

Adult, Neonatal, Pediatric HMEF options

Tethered/luer cap options
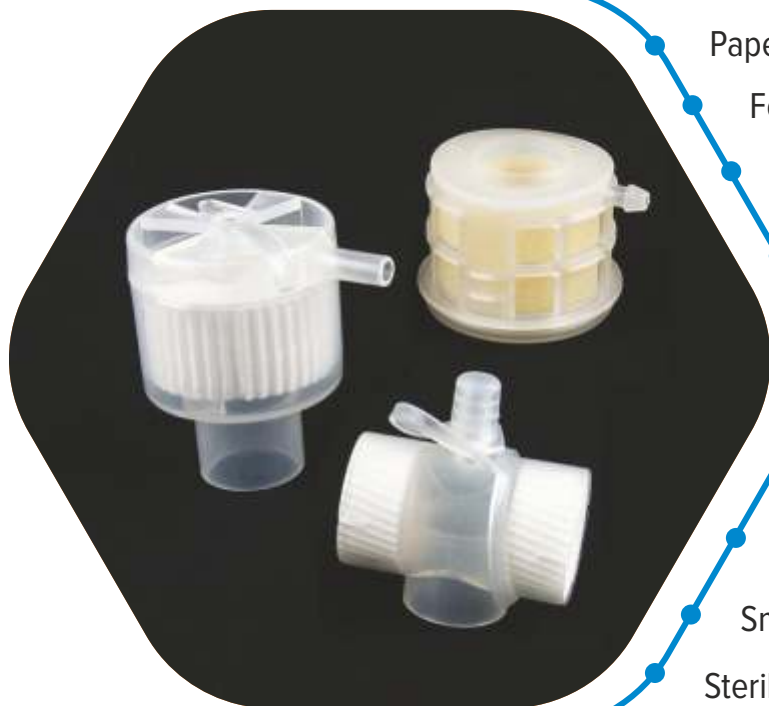
Paper media

Foam media

Universal fitting ISO 5356-1

Tested at TIM Laboratories, Germany
• HME efficiency
• Resistance to flow

Oxygen port available

Collection chamber in the presence of sputum

Oxygen port, positioned to allow heating and humidification of all inspired gases

Small volume, very light weight

Sterile/Nonsterile options

INDEX

ANESTHESIA CIRCUITS
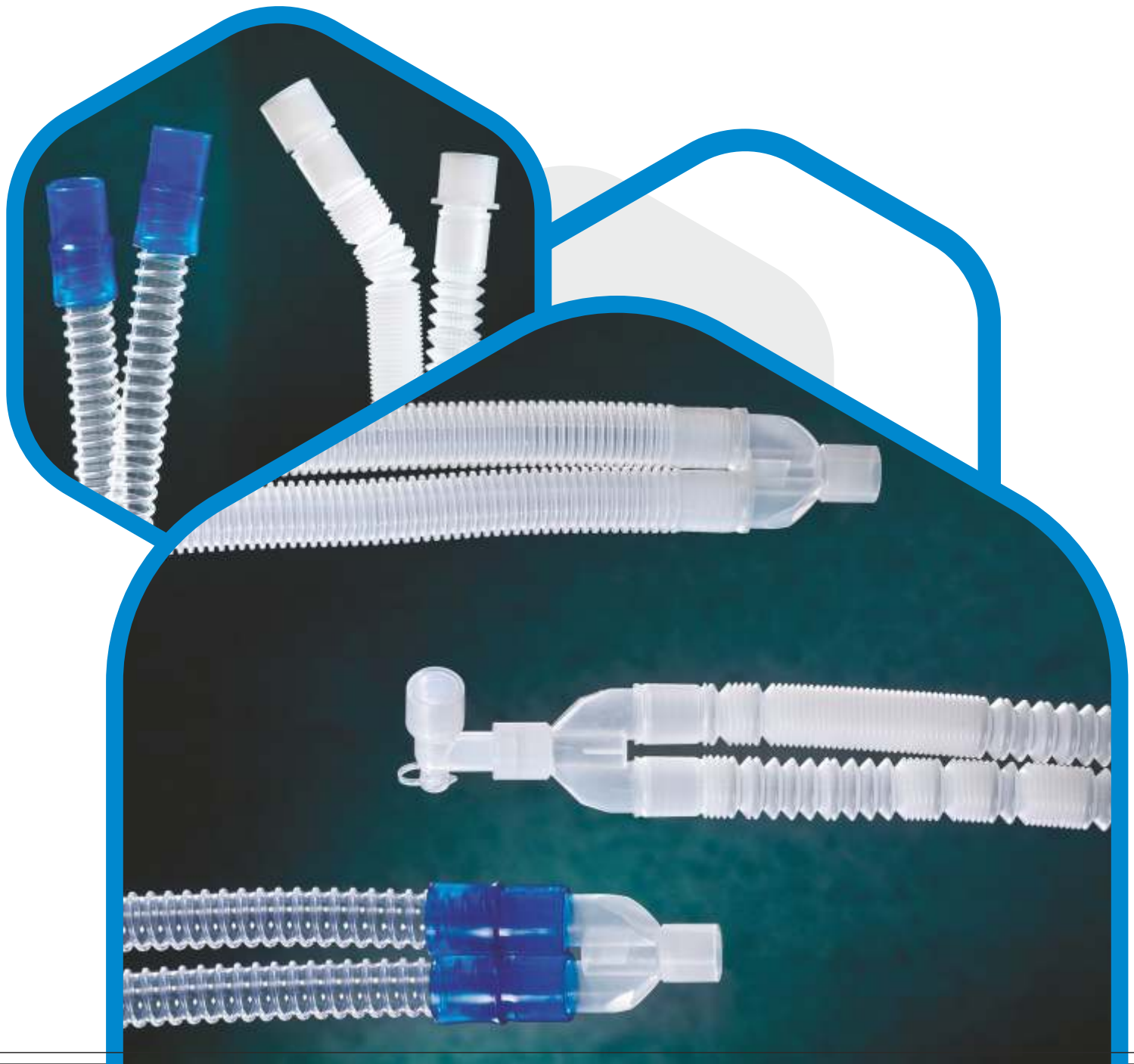
Anesthesia Circuits

• Successful notch design eliminates the risk of disconnection and leakage in the circuits
• All Circuit types can be customized. R-Vent has the capacity of customization which provide end-users
  with an endless number of disposable breathing circuit configurations
• All circuits are manufactured in 10.000 class clean room
• The products are CE marked and comply with ISO 13485: 2016 & ISO 5367: 2015 standarts
• All circuits are made of medical grade material comply with ISO 10993
• Circuits comply with ISO 18562 biocompatibility standart
• Sterile option available

Standard Anesthesia Circuits

Corrugated	Length	Code	Qty/Box
Adult	160 cm/~63"	11004000	40
Pediatric	160 cm/~63"	41004000	60

Extendible	Length	Code	Qty/Box
Adult	180 cm/~71"	31005000	100
Pediatric	150 cm/~59"	61003000	100

Smoothbore	Length	Code	Qty/Box
Adult	180 cm/~71"	21005000	40
Pediatric	150 cm/~59"	51003000	50
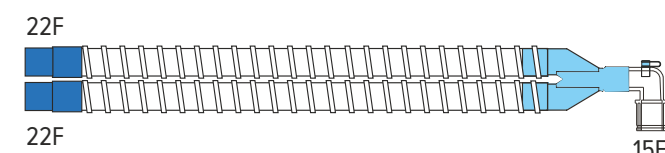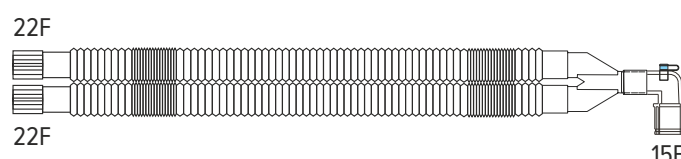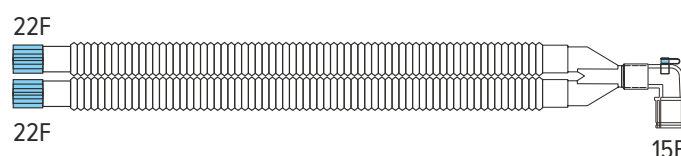
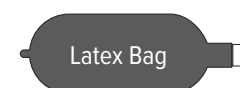## Anesthesia Circuits with Limb, Latex Breathing Bag

Corrugated	Length	Code	Qty/Box
Adult	160 cm/~63"	11104010	30
Pediatric	160 cm/~63"	41104010	50

Extendible	Length	Code	Qty/Box
Adult	180 cm/~71"	31305010	70
Pediatric	150 cm/~59"	61303010	70

Smoothbore	Length	Code	Qty/Box
Adult	180 cm/~71"	21205010	30
Pediatric	150 cm/~59"	51203010	40

RVENT

CE 2195 EN ISO 13485:2016
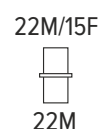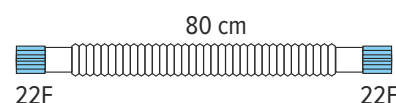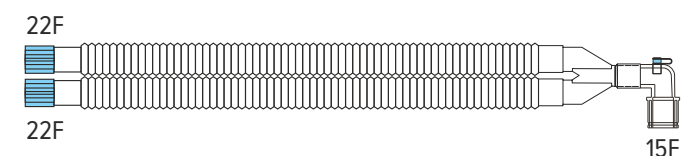
Corrugated Tubing Circuits
• Light weight and economical system
• Low risk of leakage with tight notch connections

Extendible Tubing Circuits
• Easy positioning for convenient usage and storage
• Low risk of leakage with tight notch connections
• Ability to store a memory, easy set-up for further usages

Smoothbore Tubing Circuits
• Better compliance
• Lower kinking risk
• Minimum condensation build-up in the circuit
• Less bacterial growth
• Reinforced by an external helix while inner surface is smooth
• Crush-proof thereby eliminating any risk of ventilation being interrupted
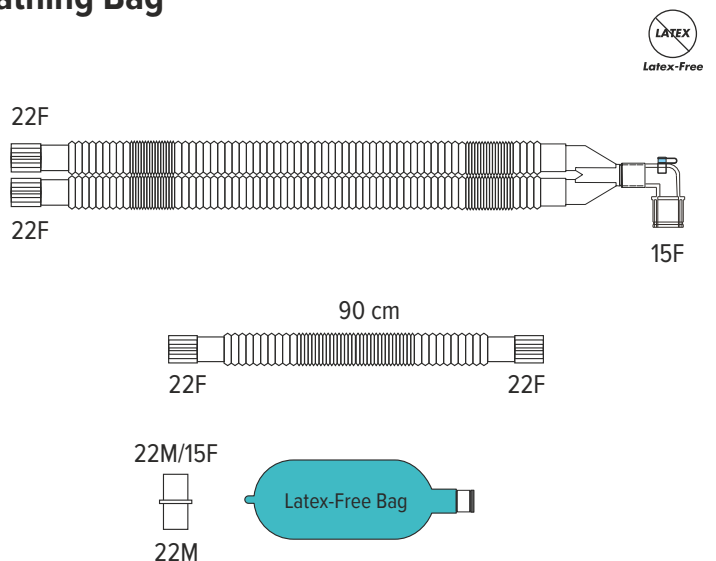
Anesthesia Circuits with Limb, Latex-Free Breathing Bag

Corrugated	Length	Code	Qty/Box
Adult	160 cm/~63"	11104020	30
Pediatric	160 cm/~63"	41104020	50

Extendible	Length	Code	Qty/Box
Adult	180 cm/~71"	31305020	70
Pediatric	150 cm/~59"	61303020	70

Smoothbore	Length	Code	Qty/Box
Adult	180 cm/~71"	21205020	30
Pediatric	150 cm/~59"	51203020	40

Anesthesia Circuits with Limb, Latex Breathing Bag, Bacterial-Viral Filter

Corrugated	Length	Code	Qty/Box
Adult	160 cm/~63"	11104110	30
Pediatric	160 cm/~63"	41104110	50

Extendible	Length	Code	Qty/Box
Adult	180 cm/~71"	31305110	70
Pediatric	150 cm/~59"	61303110	70

Smoothbore	Length	Code	Qty/Box
Adult	180 cm/~71"	21205110	30
Pediatric	150 cm/~59"	51203110	40
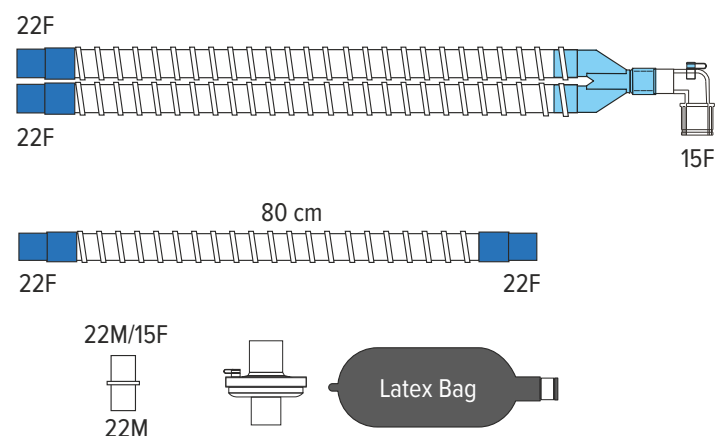
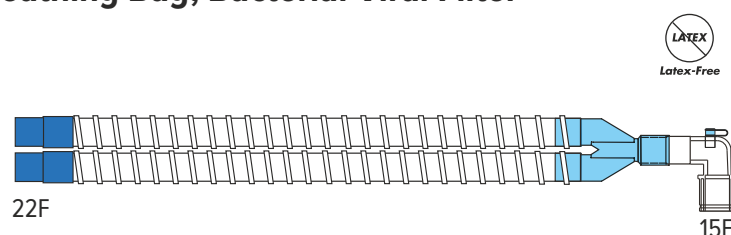# Anesthesia Circuits with Limb, Latex-Free Breathing Bag, Bacterial-Viral Filter

Corrugated	Length	Code	Qty/Box
Adult	160 cm/~63"	11104120	30
Pediatric	160 cm/~63"	41104120	50

Extendible	Length	Code	Qty/Box
Adult	180 cm/~71"	31305120	60
Pediatric	150 cm/~59"	61303120	70

Smoothbore	Length	Code	Qty/Box
Adult	180 cm/~71"	21205120	30
Pediatric	150 cm/~59"	51203120	30

22F

15F

80 cm
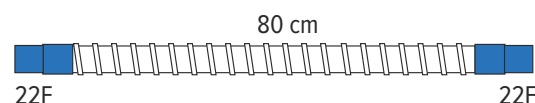
22F   22F

22M/15F

22M

Latex-Free Bag

Datex ADU® Anesthesia Circuits

Corrugated	Length	Code	Qty/Box
Adult	160 cm/~63"	11104029	30
Pediatric	160 cm/~63"	41104029	40

22F

22F
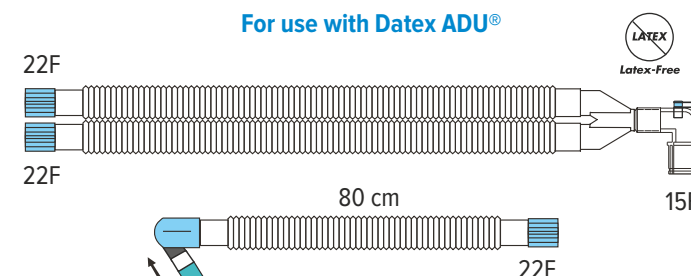
15F

80 cm
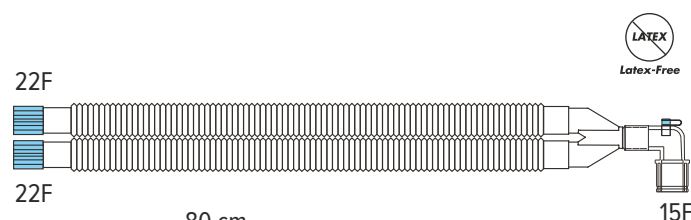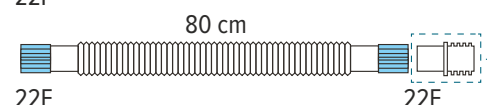
22F   22F

Latex-Free Bag

Limb is fitted with a special straight connector at this machine

For use with Datex ADU®

GE® Workstations Anesthesia Circuits

Corrugated	Length	Code	Qty/Box
Adult	160 cm/~63"	11104020-5	30
Pediatric	160 cm/~63"	41104020-5	50

• GE Workstations is a registered trademark of GE Healthcare

22F

22F

15F

80 cm

22F
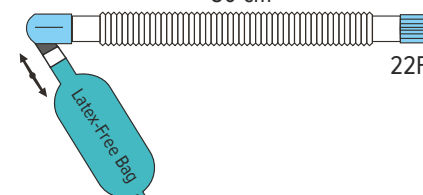
Latex-Free Bag

For use with GE® Workstations

RVENT

CE 2195 EN ISO 13485:2016
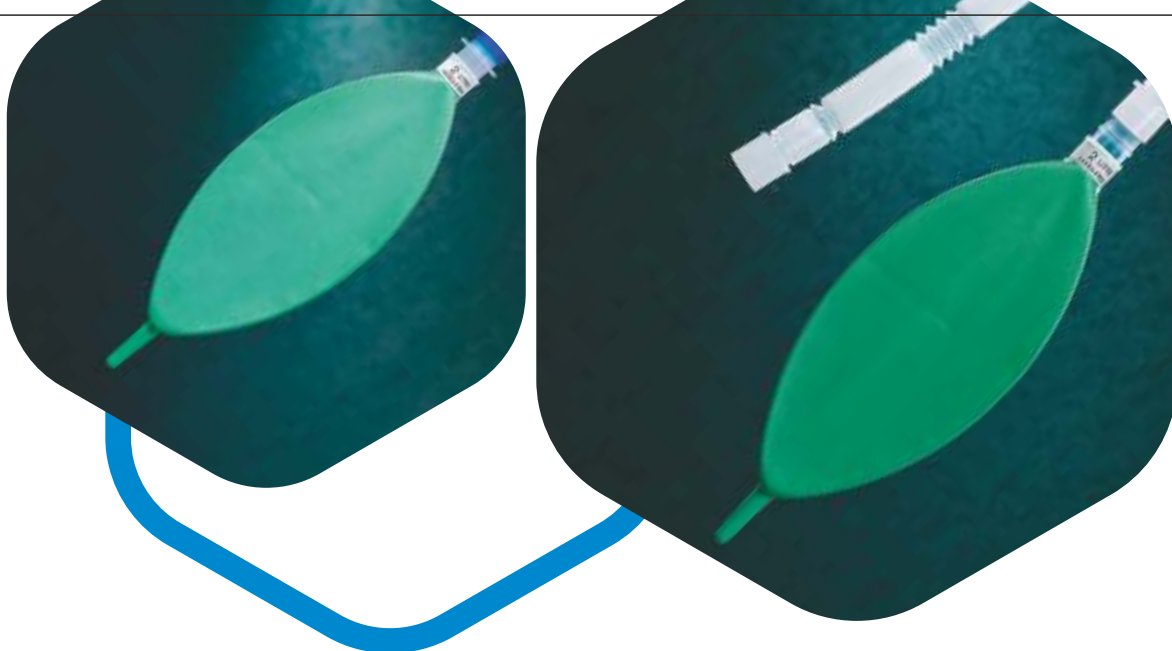
Double Gas Sampling Line Circuits

• The Circuit has a healthy and cost-effective design
• The circuit decreases the use of anesthesic volatile agent by returning
  the gas to the system, by doing, it maintains the gas in the system
  and prevents operating people from inhaling volatile
  gas which is not in the atmosphere thanks to circuit design

Anesthesia Circuits with Limb, Latex Breathing Bag, Bacterial-Viral Filter, Gas Sampling Line

Smooth Bore	Length	Code	Qty/Box
Adult	180 cm/~71"	21205124	30
Pediatric	150 cm/~59"	51203124	30
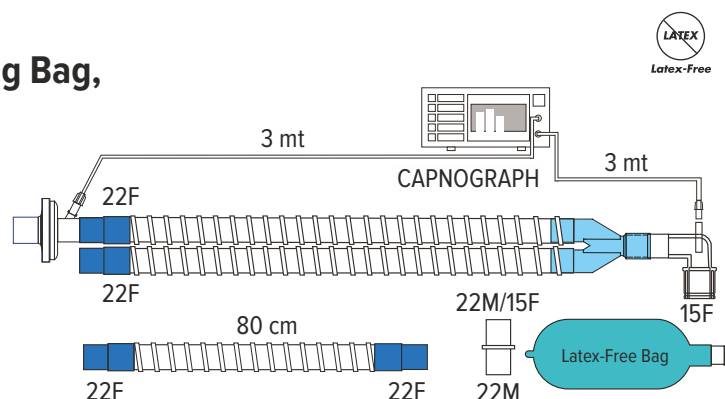
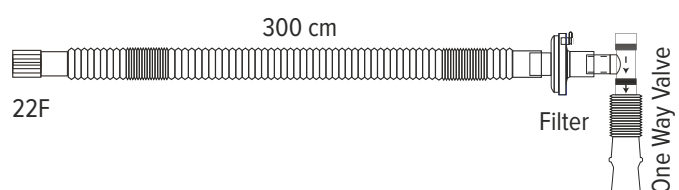## Anesthesia Circuit Breathing Bag, Anesthesia Mask, Bacterial-Viral/HME Filter, Gas Sampling Line

Corrugated	Length	Code	Qty/Box
Adult	160 cm/~63"	11004154	30
Pediatric	160 cm/~63"	41004154	30
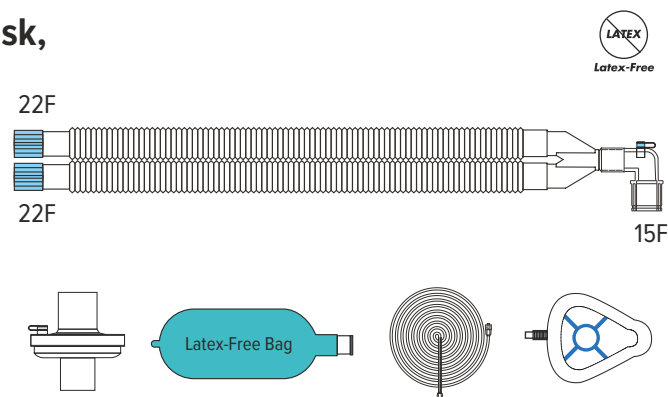
Nitrous Oxide and Oxygen Delivery Circuit

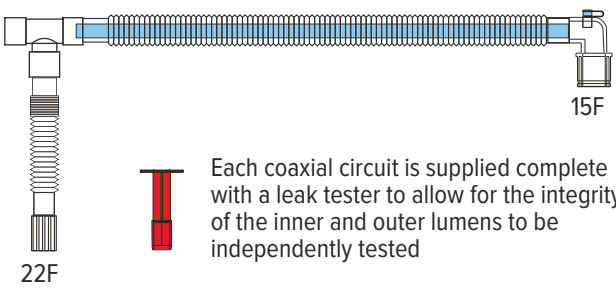| Extendible	Length	Code	Qty/Box
Adult	300 cm/~118"	30008109	50

Coaxial Circuits

- Simple and qualified functional design of streamlined tubing within a tube
- The design enables elimination of twisting between inspiratory and expiratorylimbs
- The circuit offers a better chance of mobility and practical usage
- Inspired gases become warm and humidified when exhaled through expiratory tubing, which result in self-contained and thermally sufficient atmosphere

Duo-Limb Circuit

- Less weight than two-limb circuits
- Reduced torque on patient's airway
- More versatility when used as a transport circuit
- Kinking resistant, high quality

Standard Coaxial Circuits

Corrugated	Length	Code	Qty/Box
Adult	180 cm/~71"	99005000	40
Pediatric	140 cm/~55"	09009000	40

15F

22F

Each coaxial circuit is supplied complete with a leak tester to allow for the integrity of the inner and outer lumens to be independently tested

Coaxial Circuits With Extendible Limb, Latex Breathing Bag

Corrugated	Length	Code	Qty/Box
Adult	180 cm/~71"	99305010	30
Pediatric	140 cm/~55"	09309010	30
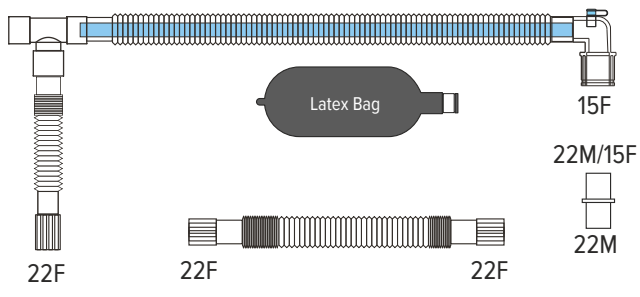
Latex Bag

15F

22M/15F

22M

22F   22F   22F

Coaxial Circuits With Extendible Limb, Latex-Free Breathing Bag

Corrugated	Length	Code	Qty/Box
Adult	180 cm/~71"	99305020	30
Pediatric	140 cm/~55"	09309020	30
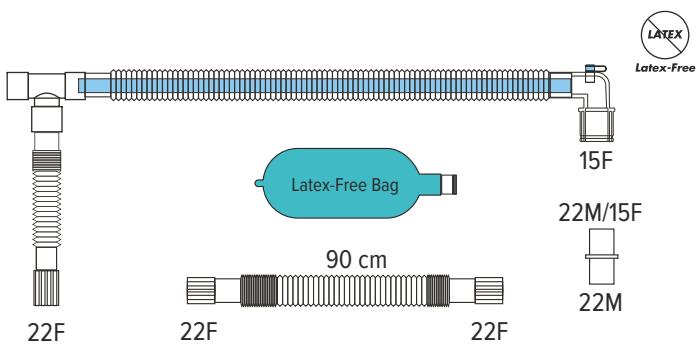
LATEX
Latex-Free

Latex-Free Bag

15F

22M/15F

90 cm

22M

22F   22F   22F

RVENT

Coaxial Circuits With Extendible Limb, Latex Breathing Bag, Bacterial-Viral Filter

Corrugated	Length	Code	Qty/Box
Adult	180 cm/~71"	99305110	30
Pediatric	140 cm/~55"	09309110	30
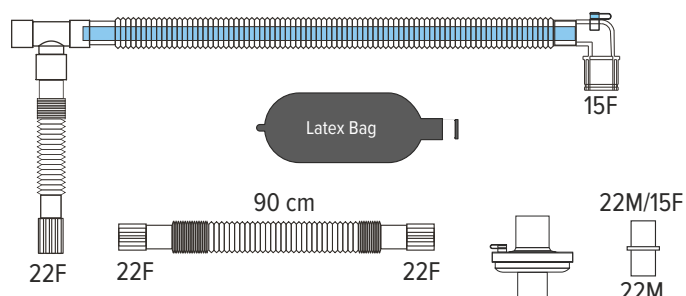
Coaxial Circuits With Extendible Limb, Latex-Free Breathing Bag, Bacterial-Viral Filter

Corrugated	Length	Code	Qty/Box
Adult	180 cm/~71"	99305120	30
Pediatric	140 cm/~55"	09309120	30
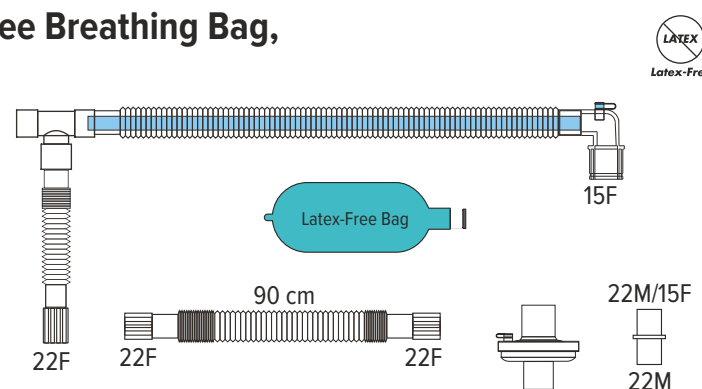
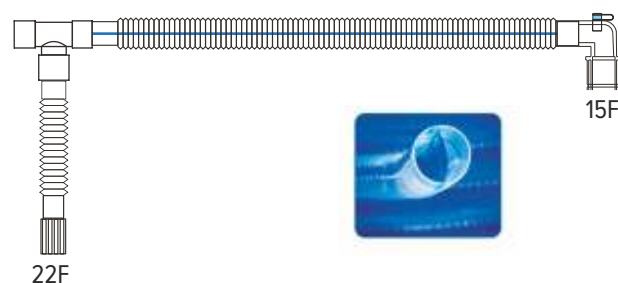## Coaxial Circuits With Extendible Limb, Latex Breathing Bag, Bacterial-Viral Filter, Gas Sampling Line

Corrugated	Length	Code	Qty/Box
Adult	180 cm/~71"	99305114	30
Pediatric	140 cm/~55"	09309114	30
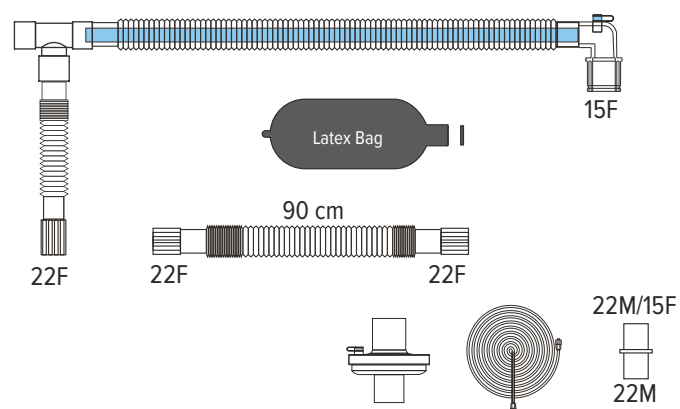
Duo-Limb Circuit

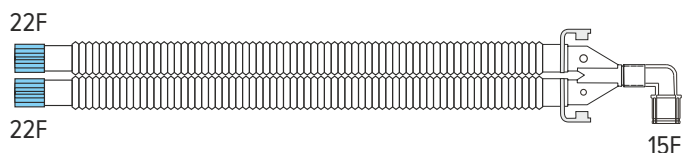| Corrugated	Length	Code	Qty/Box
Adult	180 cm/~71"	99105000	40

VENTILATION CIRCUITS
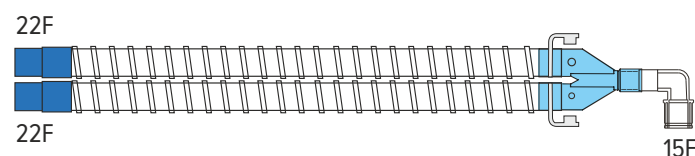
Ventilation Circuits

- Successful notch design eliminates the risk of disconnection and leakage in the circuits
- All circuit types can be customized
- R-Vent has the capacity of customization which provide end-users with an endless number of disposable breathing circuit configurations
- All circuits are manufactured in 10.000 class clean room.
- The products are CE marked and comply with ISO 13485: 2016 quality regulation
- Specially used in intensive care units
- Sterile option available

Standard Ventilation Circuits

Corrugated	Length	Code	Qty/Box
Adult	160 cm/~63"	12004000	40
Pediatric	160 cm/~63"	42004000	50

Smoothbore	Length	Code	Qty/Box
Adult	180 cm/~71"	22005000	40
Pediatric	150 cm/~59"	52003000	50

Ventilation Circuits With Limb, Single Water Trap

Corrugated	Length	Code	Qty/Box
Adult	160 cm/~63"	12114000	30
Pediatric	160 cm/~63"	42114000	40
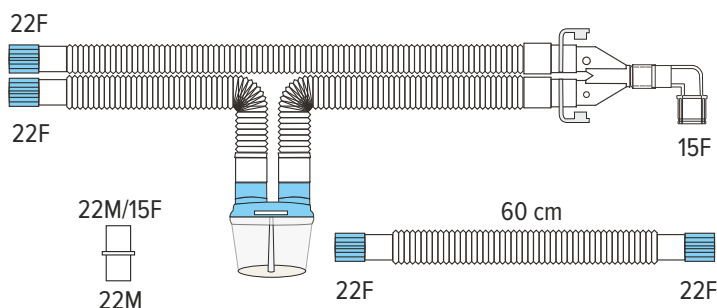
Smoothbore	Length	Code	Qty/Box
Adult	180 cm/~71"	22215000	30
Pediatric	150 cm/~59"	52213000	40

Ventilation Circuits With Limb, Double Water Trap

Corrugated	Length	Code	Qty/Box
Adult	160 cm/~63"	12124000	30
Pediatric	160 cm/~63"	42124000	40
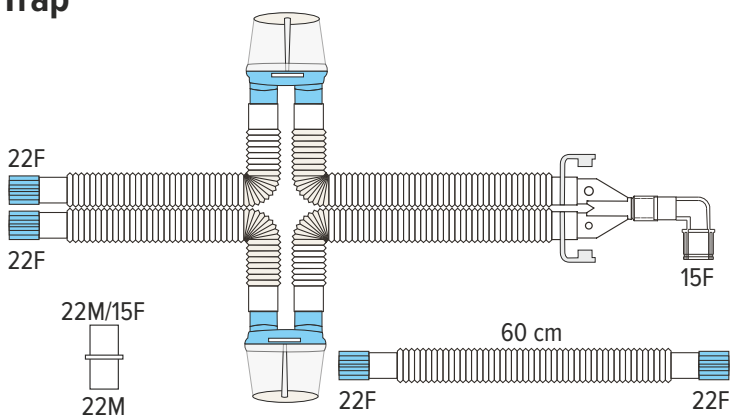
Smoothbore	Length	Code	Qty/Box
Adult	180 cm/~71"	22225000	30
Pediatric	150 cm/~59"	52223000	40

Ventilation Circuits With Limb, Double Water Trap, HMEF, Catheter Mount

Corrugated	Length	Code	Qty/Box
Adult	160 cm/~63"	12124208	30
Pediatric	160 cm/~63"	42124208	40

Smoothbore	Length	Code	Qty/Box
Adult	180 cm/~71"	22225208	30
Pediatric	150 cm/~59"	52223208	40

HMEF, Catheter Mount
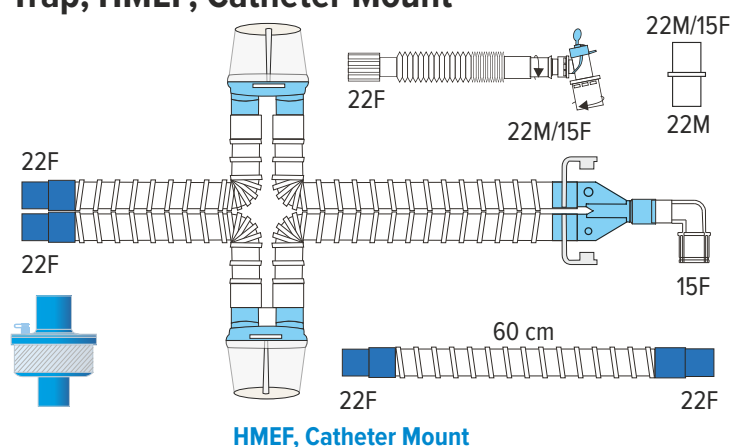
Ventilation Circuits With Limb, Double Water Trap, Nebulizer Kit

Corrugated	Length	Code	Qty/Box
Adult	160 cm/~63"	12124009	30
Pediatric	160 cm/~63"	42124009	30

Smoothbore	Length	Code	Qty/Box
Adult	180 cm/~71"	22225009	30
Pediatric	150 cm/~59"	52223009	40

Nebulizer Set
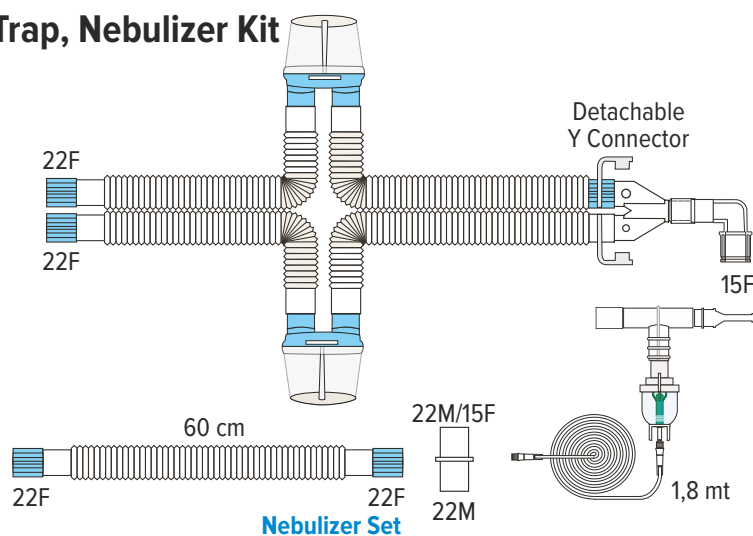
Proximal Pressure Line Circuits With Limb, Humidifier Chamber

Smoothbore	Length	Code	Qty/Box
Adult	180 cm/~71"	23215009	25
Pediatric	150 cm/~59"	53213009	30
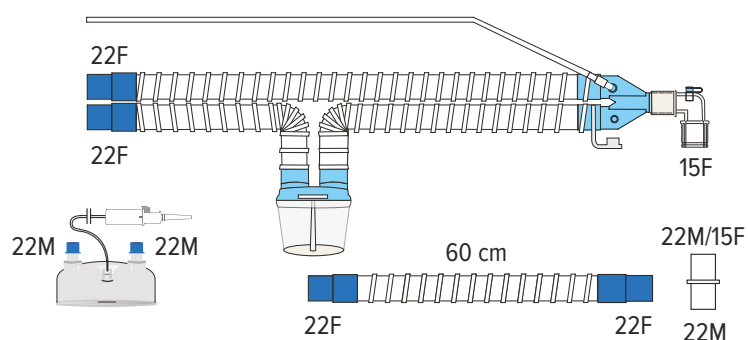
SINGLE LIMB BREATHING CIRCUITS
(Transport, Homecare, NIV)

SILICONE VALVE EFFICIENTLY ADJUSTS PRESSURE

SILENT MANIFOLD

LIGHT WEIGHT BODY

EXHALATION PORT

HANGER

Smiths Pneupac®, ParaPAC®, VentiPAC® and TransPAC™ Ventilator Circuit

Extendible	Length	Code	Qty/Box
Adult	180 cm/~71"	30005009	100
Adult	180 cm/~71"	3005009-1	100
	with peep-valve		

22F

Smoothbore	Length	Code	Qty/Box
Adult	120 cm/~47"	20002009	60
Adult	120 cm/~47"	20002009-1	60
	with peep-valve		

22F

Adjustable Peep Valve
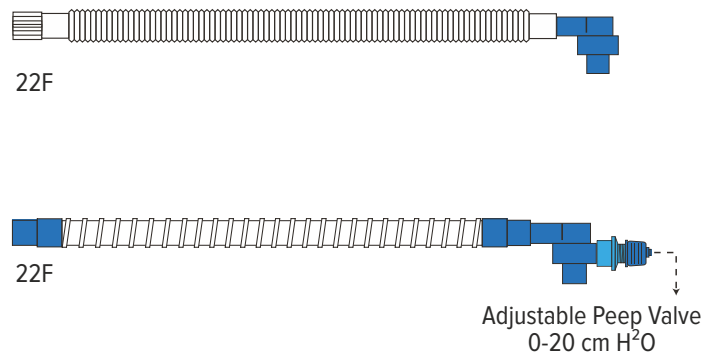0-20 cm H$_2$O

For Use with Pneupac® Ventilators

• Clear material
• PEEP valve option
• No risk of miss-assembly after cleaning

• No risk of contamination between patients due ta inadequate cleaning
• Compatible with all-existing Pneupac ventilators
• Delivers high-efficiency oxygen therapies in pre-hospital, transport and hospital settings

Smooth Bore	Length	Code	Qty/Box
Adult	180 cm/~71"	20005006	50

Exhalation Valve Line
4x6 / 3x5 mm Ending

22F

Pressure Line
5x7 / 3x5 mm Ending

Smooth Bore	Length	Code	Qty/Box
Adult	180 cm/~71"	20005006-5	50

Exhalation Valve Line
4x6 / 3x5 mm Ending

22F

Corrugated	Length	Code	Qty/Box
Adult	160 cm/~63"	10004006	40

Exhalation Valve Line
4x6 / 3x5 mm Ending

22F

Pressure Line
5x7 / 3x5 mm Ending

Smooth Bore	Length	Code	Qty/Box
Adult	180 cm/~71"	20005009	50

Proximal Line
4x6 / 3x5 mm Ending

22F

22F

Co2 Exhalation
Connector

Smooth Bore	Length	Code	Qty/Box
Pediatric	150 cm/~59"	50003006-1	50

Exhalation Valve Line
4x6 / 3x5 mm Ending

22 *mmF*

22 *mmM*

Pressure Line
5x7 / 3x5 mm Ending
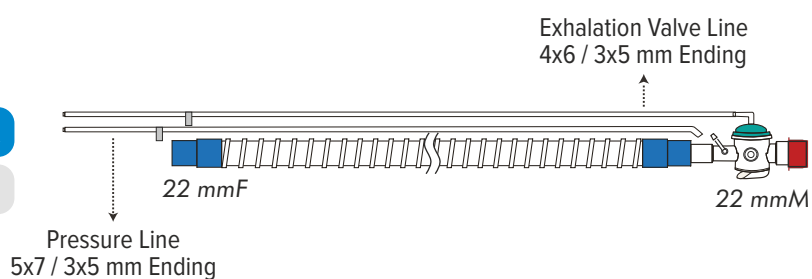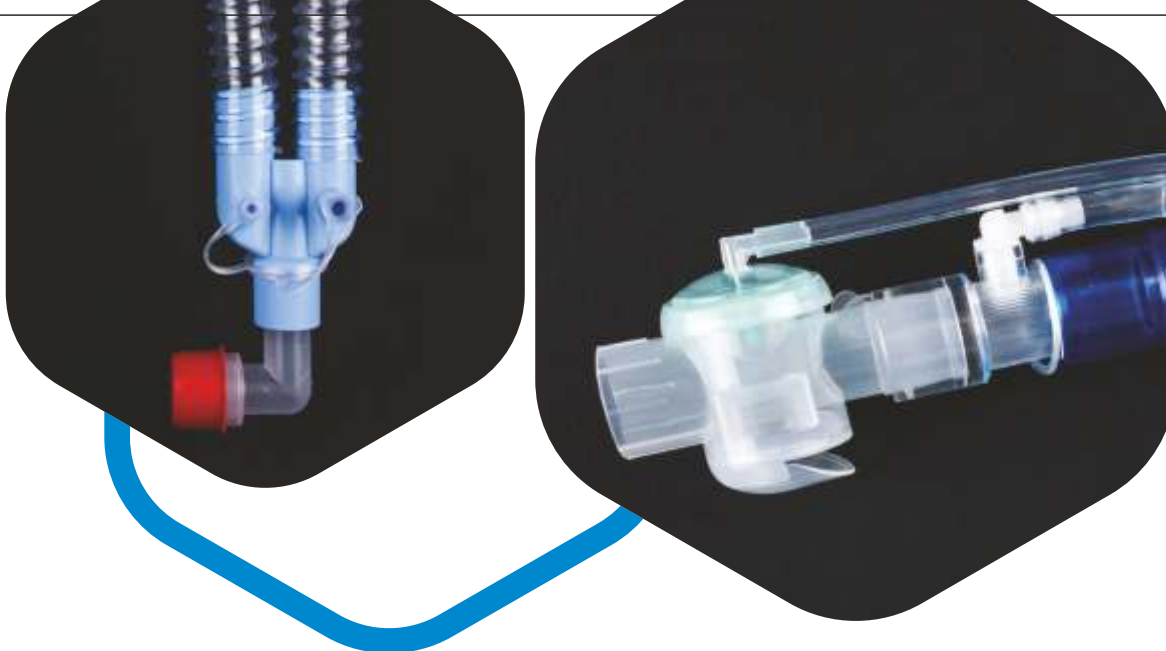
- R-Vent breathing systems for homecare ventilators include both single and dual limb circuits
- The circuits can fit to any homecare ventilator
- We also offer systems with heated wire

Newport® Ht50 & 70 Ventilator Circuit

Corrugated	Length	Code	Qty/Box
Adult	160 cm/~63"	13114007	30
Pediatric	160 cm/~63"	43114007	30

4x6 mm Ending
180 cm
22M/15F
22M
22F
4x6 / 5x7 mm Ending
200 cm
15F
60 cm
22F   22F
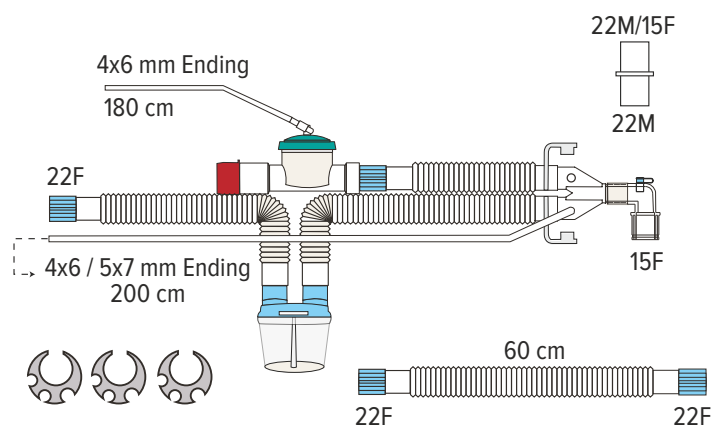
For use with HT50 Ventilator®

Smooth Bore	Length	Code	Qty/Box
Adult	180 cm/~71"	20005109	50

Proximal Line
4x6 / 3x5 mm Ending
180cm
22 mmF
Co2 Exhalation Connector
BV Filtre

RVENT

CE 2195 EN ISO 13485:2016

Smooth Bore	Length	Code	Qty/Box
Adult	180 cm/~71"	29005006-1	45

Exhalation Valve Line
4x6 / 3x5 mm Ending

Elbow Connector

22F

Red Cap

Pressure Line
5x7 / 3x5 mm Ending

Tube Holders
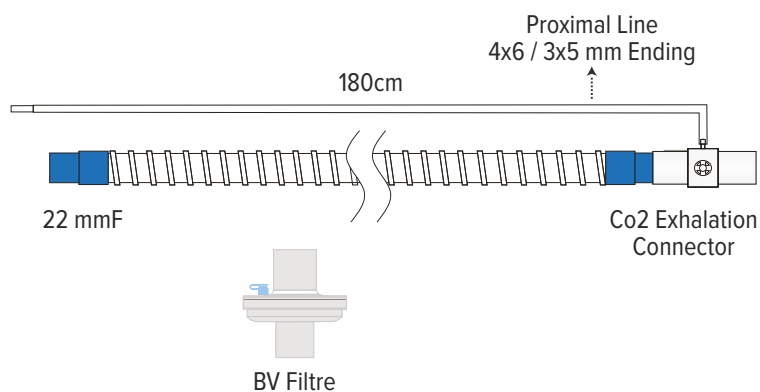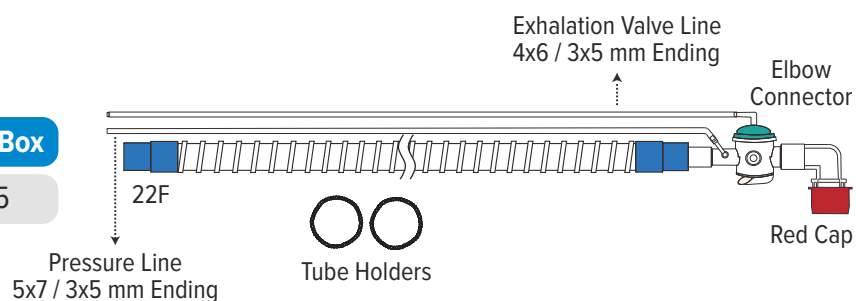
Active Circuits

Smooth Bore	Length	Code	Qty/Box
Adult	120 cm/47"	29212000-1	30

Ported Elbow
for Humidifier

Exhalation Port

Elbow Connector

22F

Water Trap

Temperature Port

60cm

22F

22M

Corrugated	Length	Code	Qty/Box
Adult	150 cm/~59"	10003009	40

Pressure Line
5x7 / 3x5 mm Ending

180 cm

Exhalation Valve Line
4x6 / 3x5 mm Ending

15F

Tube Holders
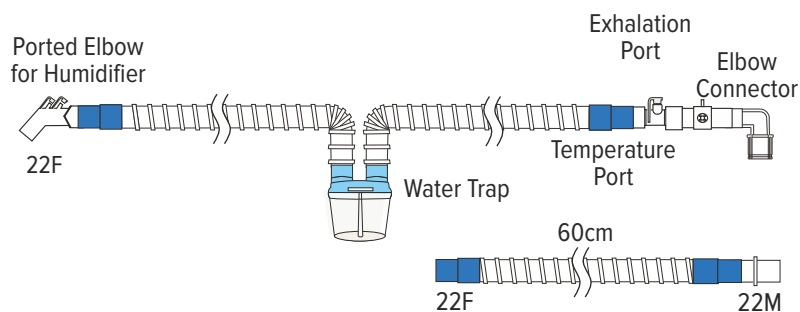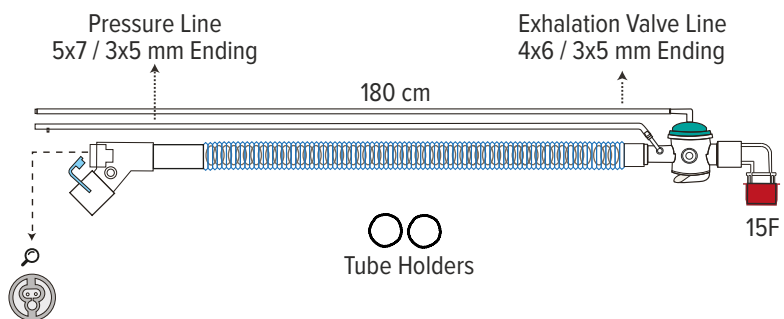
Whisper Swivel Connector

- Easy to Replace: It is easy to replace and can be attached to the breathing circuit without much difficulty.
- Excess Gas Removal: The Whisper Swivel connector works in conjunction with the breathing circuit to remove excess gas during exhalation.
- Prevents Hose Torque: This component helps prevent bending or twisting of the hose, ensuring proper functionality.
- Latex-Free: The Whisper Swivel Connector is latex-free, reducing the risk of latex-related allergies or sensitivities.

Smooth Bore	Length	Code	Qty/Box
Adult	180 cm/~72"	20005009	50

22F · Whisper Connector

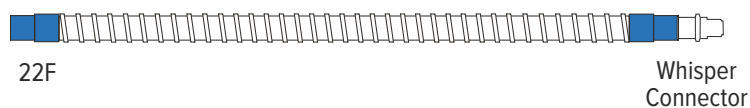| Smooth Bore	Length	Code	Qty/Box
Pediatric	120 cm/~47"	59212006-1	30

Pressure Line 5x7 / 3x5 mm Ending
Exhalation Valve Line 4x6 / 3x5 mm Ending
Elbow Connector
22F
Temperature Port
Ported Elbow for Humidifier
Water Trap
Red Cap
Tube Holders
60cm
22F · 22M
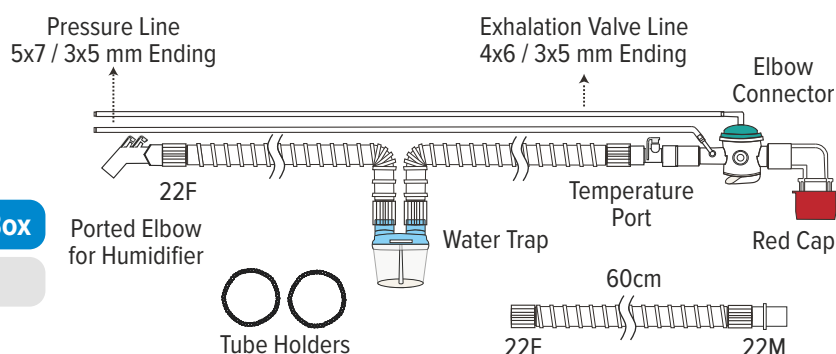
Smooth Bore	Length	Code	Qty/Box
Pediatric	120 cm/~47"	50212000-1	30

Ported Elbow for Humidifier
Temperature Port
22F
Whisper Connector
Water Trap
60cm
22F · 22M
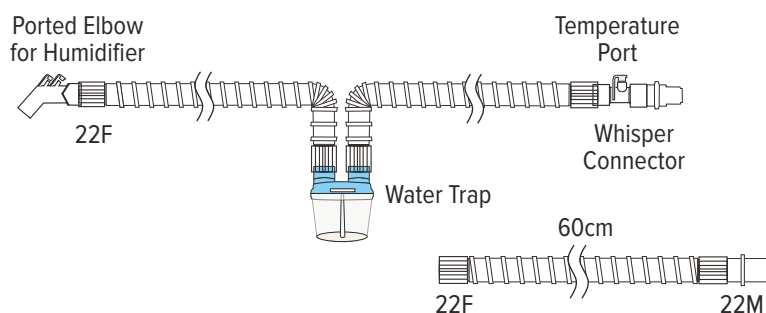
Embedded	Length	Code	Qty/Box
Adult	160 cm/~63"	29204001E-1	15
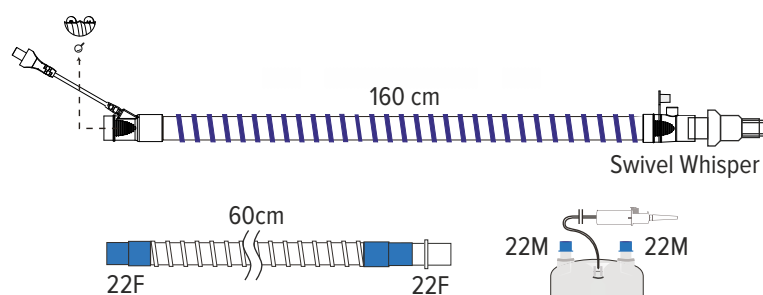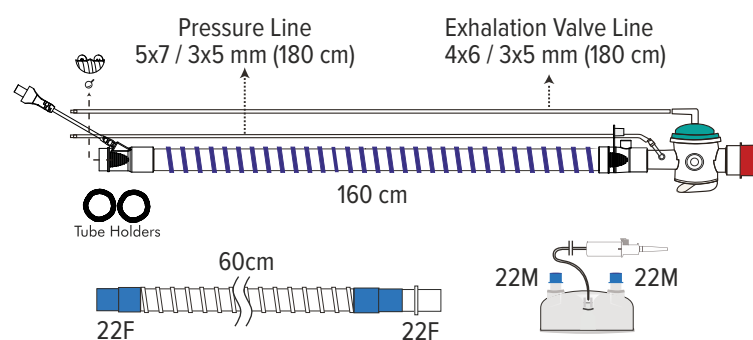
160 cm

Swivel Whisper

60cm

22F 22F

22M 22M

Embedded	Length	Code	Qty/Box
Adult	160 cm/~63"	20204009E-1	15

Pressure Line
5x7 / 3x5 mm (180 cm)

Exhalation Valve Line
4x6 / 3x5 mm (180 cm)

160 cm

Tube Holders

60cm

22F 22F

22M 22M

Embedded	Length	Code	Qty/Box
Adult	160 cm/~63"	20204009E-1	15

Pressure Line
4x6 / 3x5 mm (180 cm)

160 cm

Co2 Exhalation
Connector

Tube Holders

60cm

22F 22F

22M 22M

Smooth Bore	Length	Code	Qty/Box
Adult	180 cm/~71"	20005609-1	50

Proximal Line
5x7 / 4x6 mm Ending

22F

Smooth Bore	Length	Code	Qty/Box
Adult	180 cm/~71"	20005006-13	50

Colder™ Caplin

Exhalation Valve Line
4x6 / 3x5 mm Ending

22F

Pressure Line
5x7 / 3x5 mm Ending
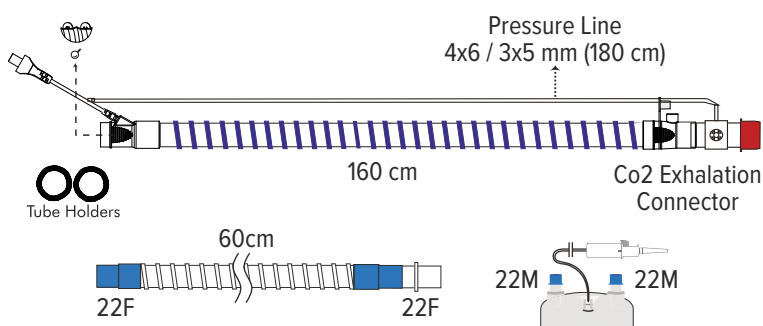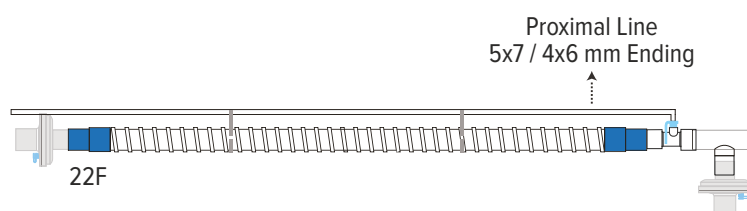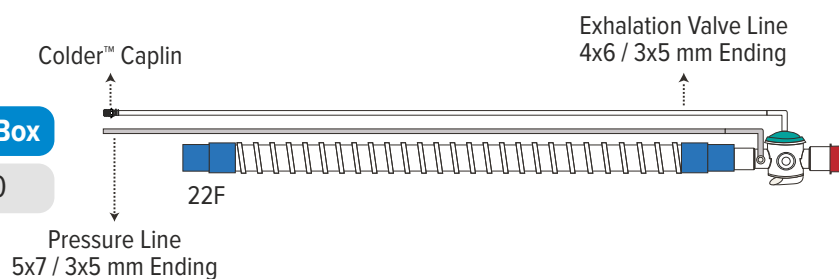
Neonatal Resuscitation Circuit

Corrugated	Length	Code	Qty/Box
Neonatal	120 cm/~47"	70002009-1	30

10F/15M

10M/15F

RVENT

CE 2195 EN ISO 13485:2016
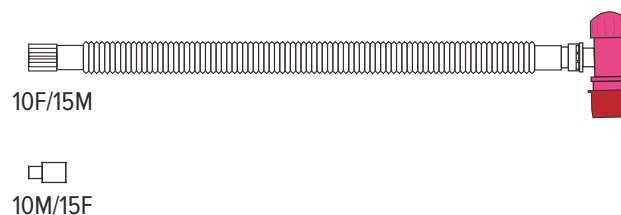
Home-Care Ventilator Suit Breathing Circuits

	10004006	20005006-5	20005006	with Colder™ Caplin 20005006-13	20005009	20005109
Philips Respironics Trilogy 100	✓		✓		✓	✓
Philips Respironics Trilogy 200					✓	✓
Philips Respironics Trilogy EVO					✓	✓
Philips Respironics Cough Asist T70						
Resmed Astral 150	✓		✓			
Airox SA Airox	✓		✓			
Airox SA Smartair	✓		✓			
Air Liquide Monal T50		✓				
Breas Vivo 50		✓				
Resmed VSIII				✓		
Resmed Ultra V/S	✓		✓			
Resmed Elisee			✓			
Resmed Eole			✓			
Resmed Helia			✓			
Covedien Legend Air PB560	✓		✓			

	29005006-1	29212000-1	19005009-1	20005130	59212006-1	50212000-1
Philips Respironics Trilogy 100	✓	✓	✓		✓	✓
Philips Respironics Trilogy 200	✓	✓	✓		✓	✓
Philips Respironics Trilogy EVO	✓	✓	✓		✓	✓
Philips Respironics Cough Asist T70				✓		

ACTIVE HUMIDIFICATION CIRCUITS & ACCESSORIES
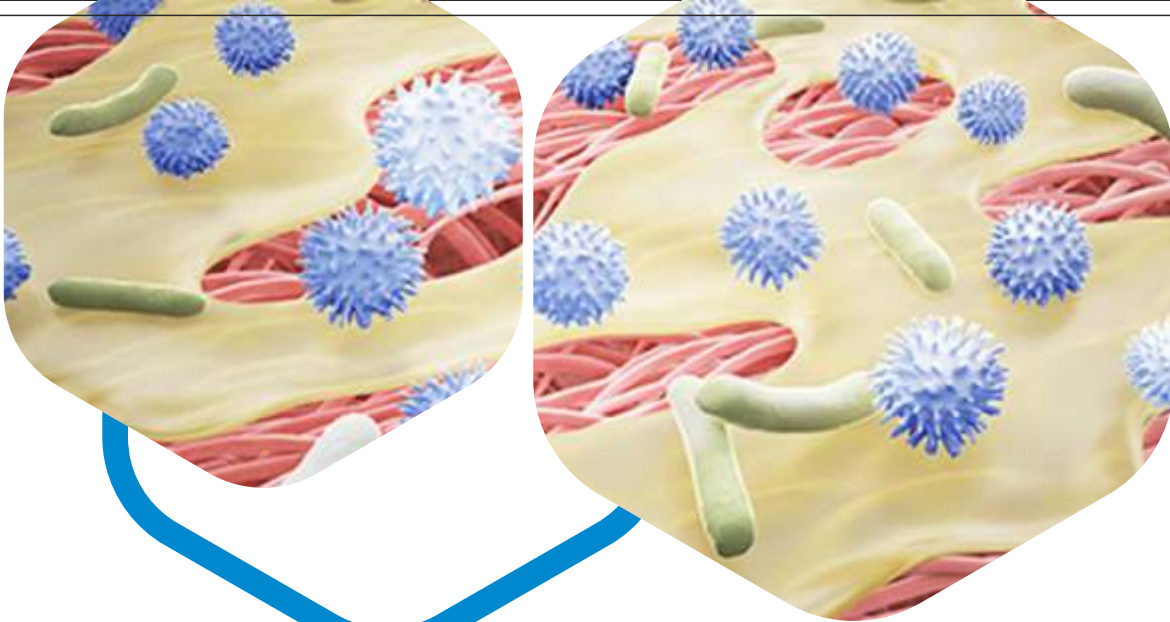
ACTIVE
HUMIDIFICATION
S O L U T I O N S

Why is Humidification Needed?

In normal respiration the upper airway helps to warm and humidify inspired air, and to retain the warmth and moisture contained in expired air.

During inspiration even cold or dry air is typically heated to 37°C and fully saturated, containing 44mg H_2O per liter.

In mechanical ventilation the patient's upper airway may be bypassed by the introduction of a tracheal tube.

As a Result the Patient's Lungs May Be Confronted With Dry Inspired Gas.

- Possible consequences of mechanical ventilation using cold and dry gas
- Drying out of mucosa and hypothermia, resulting in viscous mucus
- Slowdown of the mucociliary transport system (contaminants aren't removed)
- Higher infection risk
- Impairment of surfactant activity
- Higher risk of air trapping, hyperinflation and atelectasis
- Possible degradation of gas exchange due to changes in lung compliance and   airway patency
- Increased airway workload

Active Humidification

Active humification use devices that add water molecules, gas and temperature.
There are various types of set up but the most common are the 'water bath' based passover type.
With passover humidification, a water chamber is placed on to a heater plate, a bag of sterile
water feeds water into the chamber to create the vapour and the gas going to the patient picks
up the moisture and warmth and transports it to the patient through the heated wire circuit.
This is aided with cables attached to both a heated circuit and to the chamber/humidifier,
ensuring the patient receives optimised heated gases quickly and effectively.

Active Humidification of the Airways

Medical gas is cold and dry and even after a short period of time,
it has a significant negative effect on lung function and the mucous membranes. It disrupts
the natural distribution of temperature and moisture and the valuable work of the mucociliary system is limited.
The influence of ventilation tubes and the administration of high ventilation
flows additionally need to be compensated by the mucous membranes in the airways.

Heated and humidified breathing gas, on the other hand, preserves the viscosity
of the mucus. As a result, the ciliary activity
(cilia = very fine hairs on the mucous membrane cells) is maintained.

Benefits of Active Humidification in Mechanical Ventilation

• To improve efficient gas exchange
• Decrease work of breathing and thus increase patient comfort and therapy tolerance
• Reduce infection risks with natural breathing mechanism
• Prevents long-term damages to enable lung protective mechanical ventilation
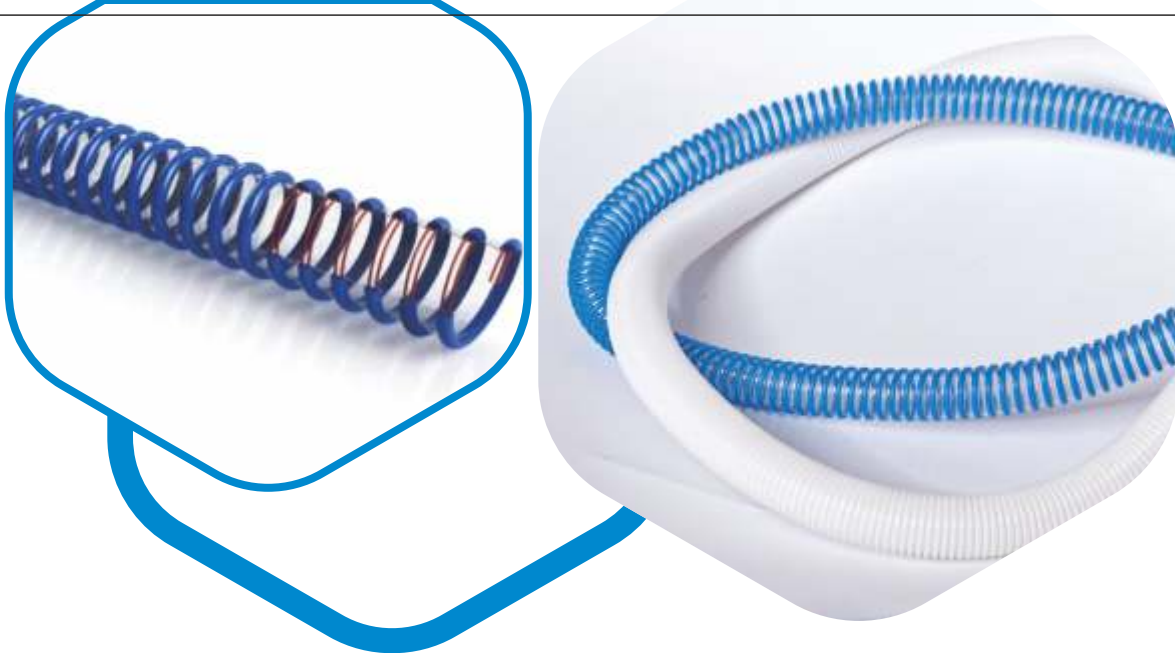
ACQU AIR ®
VAPORIZING TECHNOLOGY

Absolute Humidity Without Interruption

Reduced Risk of Contamination

Closed system and reduction in circuit breaks lowers the risk of contamination reaching the patient, clinician or ventilator

Reduced Patient Risk

When a circuit is opened, bacteria-laden moisture or water droplets may be scattered into the environment and also less risk of increased resistance to gas flow from fluid build-up in the expiratory limb

Embedded Inspiratory Limb

Optimal heating and optimal humidification, low-flow resistant and high-crush resistant, less compliance and truely laminar flow.
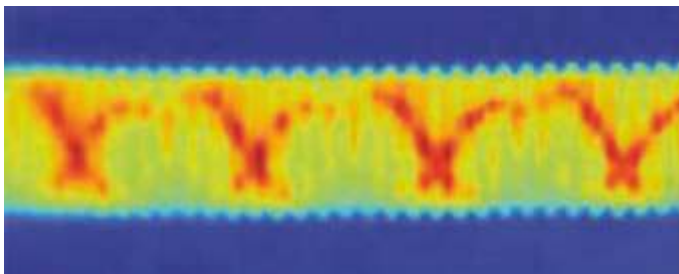
Conventional heater wires along the tube have cold spots which lead to condensation build up
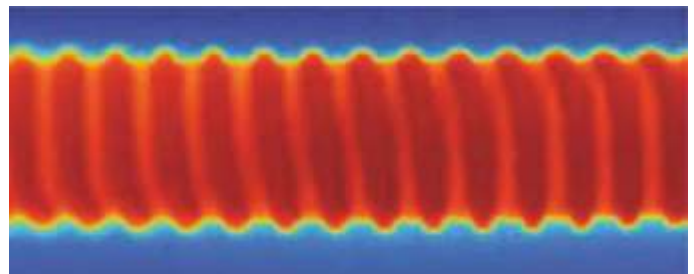
Embedded heater wires provide uniform heating along the tube hence maintaining 360 degrees of uniform heating

ACQUAIR®
VAPORIZING TECHNOLOGY

Vaporizing Technology

Why You Should Choose ACQUAIR Technology

The new **ACQUAIR** tube is our premium ventilation tube for healthcare use. The most exciting part is spiral winded wire and corrugated expiratory limb, that was designed to avoid moisture buildup in the expiratory limb itself, the ventilator and the filter with vaporizing technology.

The spiral winded wire and corrugated tube eliminates excessive moisture by vaporizing water through its wall Acquair allows excessive water to diffuse out through the vaporising corrugated expirium limb.
The new **ACQUAIR** tube is available for adults (22 mm ID) as well as Neonates (10 mm).

Acquair Vaporizing Breathing Circuit

- Minimizes inspiratory and expiratory limb condensate
- Reduces the need for clinician intervention
  to break open the breathing circuit
- Reduces ventilation issues (Auto-PEEP, ventilator dyssynchrony)
  caused by mobile circuit condensate
- No water traps to empty
- Reduces condensate buildup in expiratory filters
- Alleviates ventilator alarm issues related
  to expiratory block condensate

VA Technology diffusing excess condensate out of the tubing.

160 cm

10F

40 cm
Incubator Extension

60 cm
10F   22F

Double Heated VA Circuits

Corrugated	Length	Code	Qty/Box
Adult	160 cm/~63"	13104002E-1	30
Neonatal	160 cm/~63"	75104002E-1	30

Adaptor Set

160 cm
Proximal Line 4x6 mm

22M   22M

RVENT

CE **2195** EN ISO 13485:2016
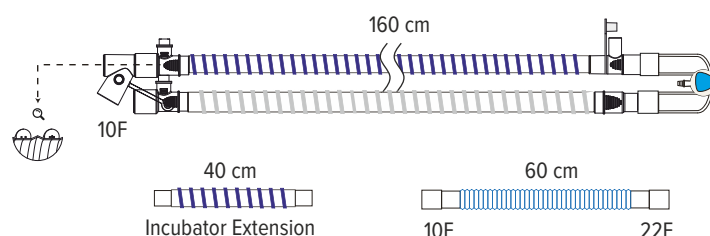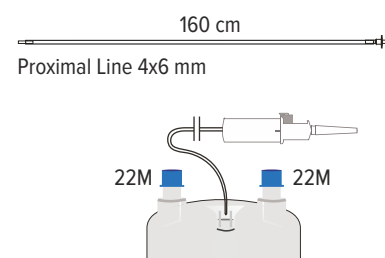
Innovative Approach to Active Humidification

Traditional active humidification breathing circuits work with heating wires consisting of an electrical cable that increases resistance and resistance, creating hot and cold spots that are affected by the ambient room temperature, causing high amounts of condensation. RVENT's innovative buried (coiled) heated wire breathing circuit contains heating wires embedded in the coil of the hoses.
Thanks to these wires, it heats the wall of the hose and provides an even heating throughout the length of the circuit, so the system is heated evenly without "cold spots" and condensation is prevented from forming in the circuit.

Less Contamination Risk

RVENT Embedded (coiled) Heated Wire Circuits minimize the need to drain excess condensate by reducing the need to open the circuit to drain the condensate, thus eliminating the possibility of the spread of pathogens associated with the development of ventilator-associated pneumonia (VAP). In addition, the straight structure of the tube; contaminated condensate accumulates in the gutters, preventing the possibility of infection colonization.
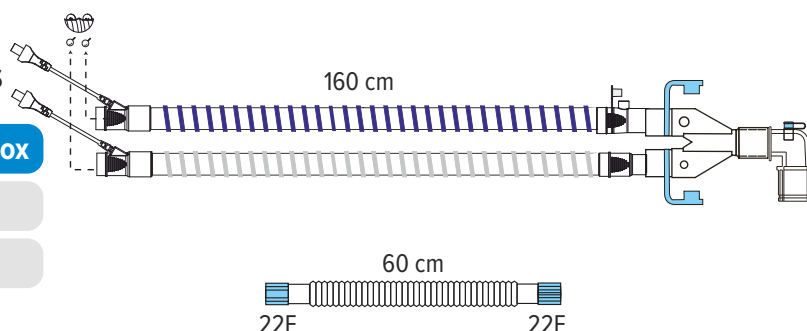
Single Embedded Heated Wire Circuits

Embedded	Length	Code	Qty/Box
Adult	160 cm/~63"	13113001E	15
Pediatric	170 cm/~67"	43113001E	15
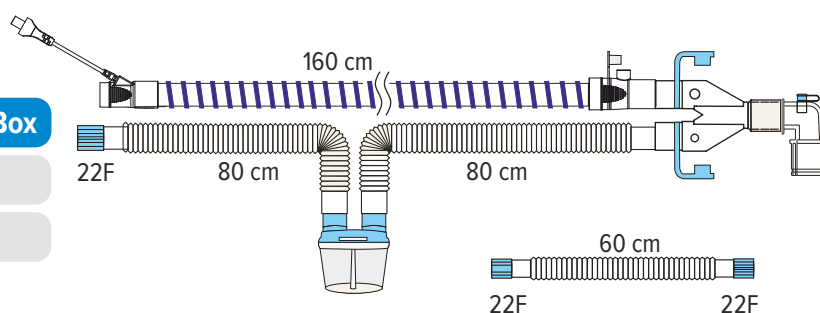
For MR850® HUMIDIFIER

Double Embedded Heated Wire Circuits

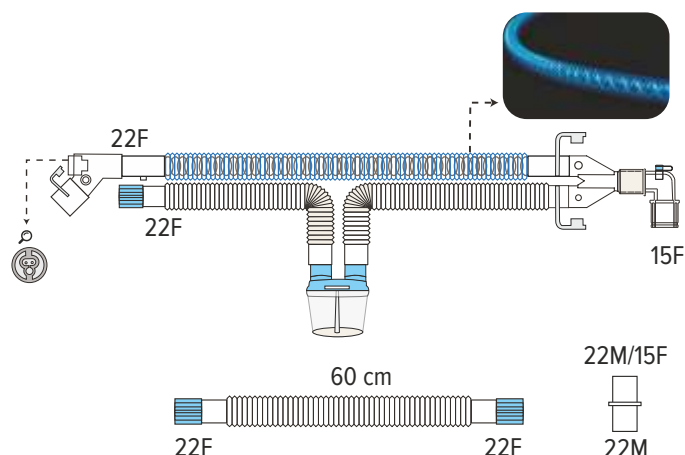| Embedded	Length	Code	Qty/Box
Adult	160 cm/~63"	13103002E	15
Pediatric	170 cm/~67"	43103002E	15

For MR850® HUMIDIFIER
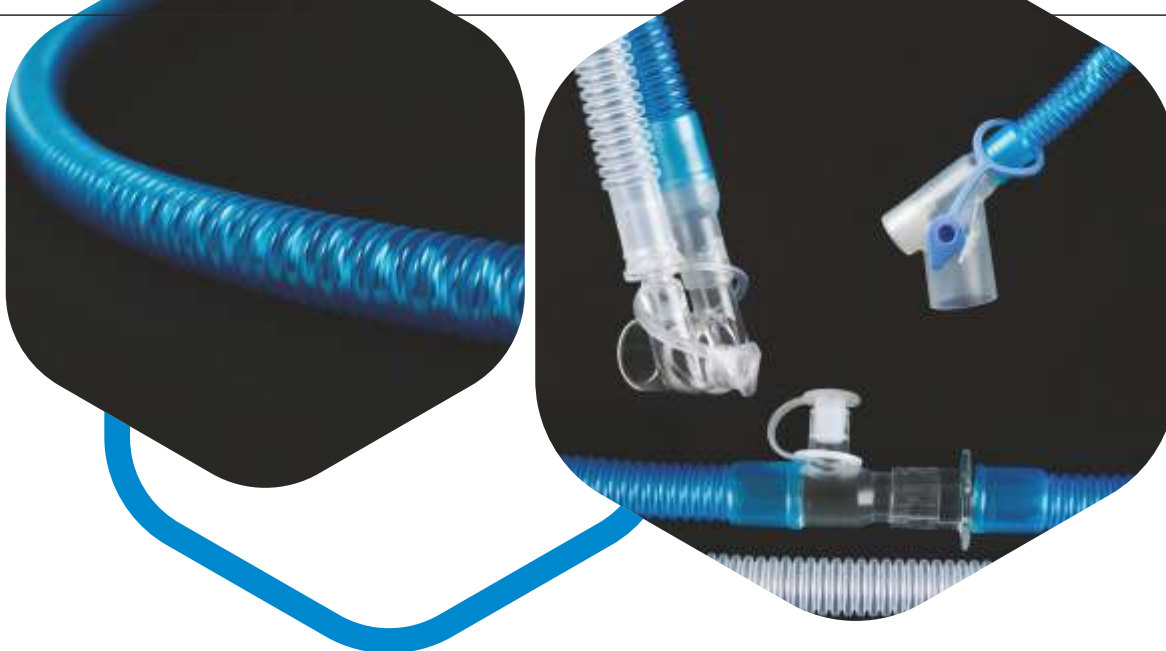
Heated Wire Circuit

• Designed for use with heated-wire humidifier
• Heating wire technology for improved air heating and
  minimization of condensation and contamination
• Spiral wire inside the tubing uniformly heating limbs without cold spots
• Compatible with MR850
• Easy color Identification: Blue inspiratory limb, white expiratory limb
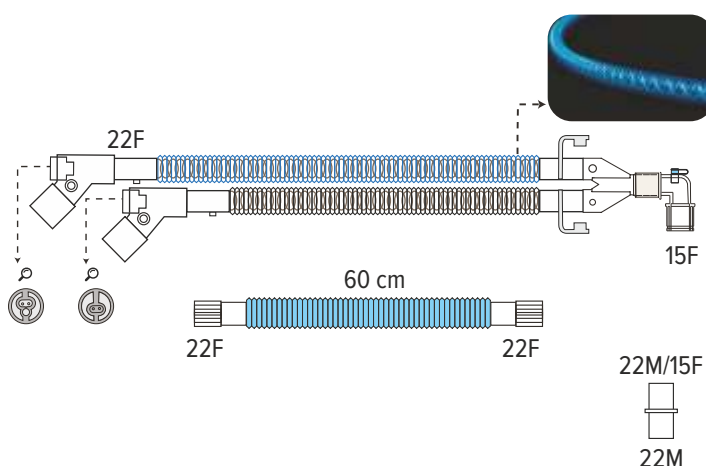
Single Heated Wire Circuits

Corrugated	Length	Code	Qty/Box
Adult	150 cm/~60"	13113001	25
Pediatric	150 cm/~60"	43113001	25

22F
22F
15F
60 cm
22F   22F
22M/15F
22M

For MR850® HUMIDIFIER

Double Heated Wire Circuits

Corrugated	Length	Code	Qty/Box
Adult	150 cm/~60"	13103002	30
Pediatric	150 cm/~60"	43103002	30

Mr850 is trademark of F&P Healtcare

22F
15F
60 cm
22F   22F
22M/15F
22M

For MR850® HUMIDIFIER

RVENT

CE 2195 EN ISO 13485:2016

Low Resistance

The inner surface of the smoothbore hose structure creates superior flow conditions and provides improved patient comfort and treatment efficiency by increasing the laminar air flow. The absence of wires in the hose also prevents pressure fluctuations, minimizes alarms related to condensation and allows any condensation to easily move to the water traps.
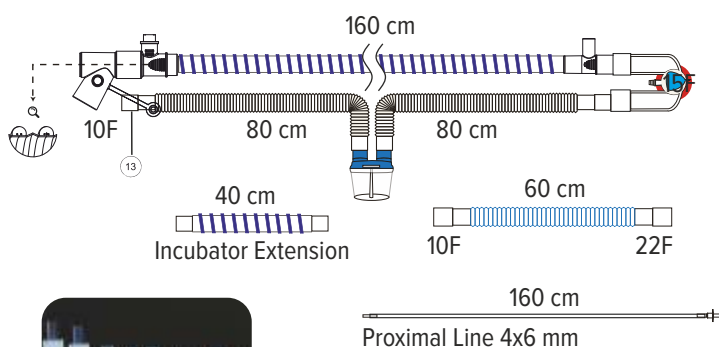
Temperature Setup

If the temperature of the incubator is > 33 °C please ensure: To use an unheated incubator extension. To put the temperature probe outside the incubator

Single Embedded Heated Wire Circuits

Embedded	Length	Code	Qty/Box
Neonatal	160 cm/~63"	75113001E	15
Neonatal	160 cm/~63"	75113001E-1	15

with auto feed chamber

160 cm

10F   80 cm   80 cm

13

40 cm
Incubator Extension

60 cm
10F   22F

160 cm
Proximal Line 4x6 mm

Adaptor Set

For MR850® HUMIDIFIER

Double Embedded Heated Wire Circuits

Embedded	Length	Code	Qty/Box
Neonatal	160 cm/~63"	75103002E	15
Neonatal	160 cm/~63"	75103002E-1	15

with auto feed chamber

160 cm

10F

40 cm
Incubator Extension

60 cm
10F   22F

160 cm
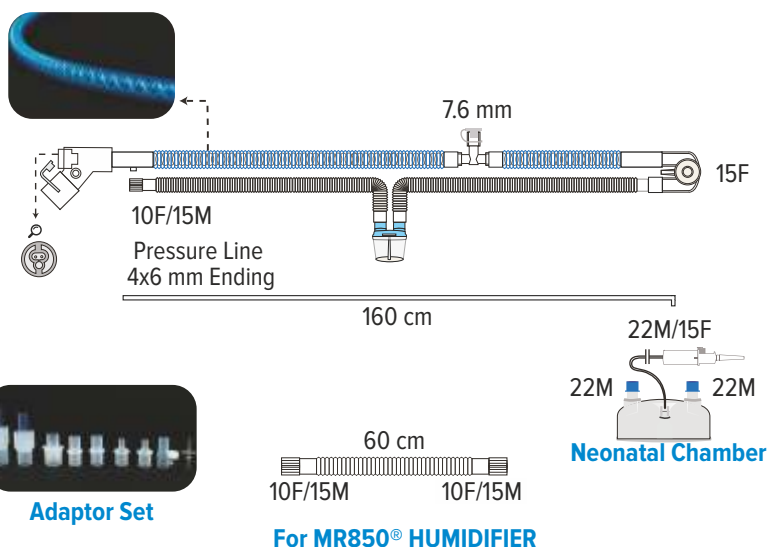Proximal Line 4x6 mm
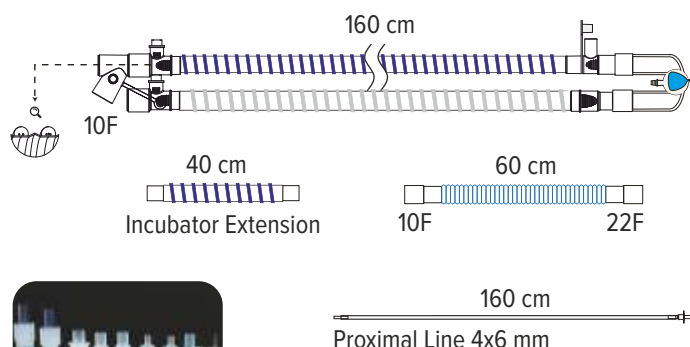
Adaptor Set
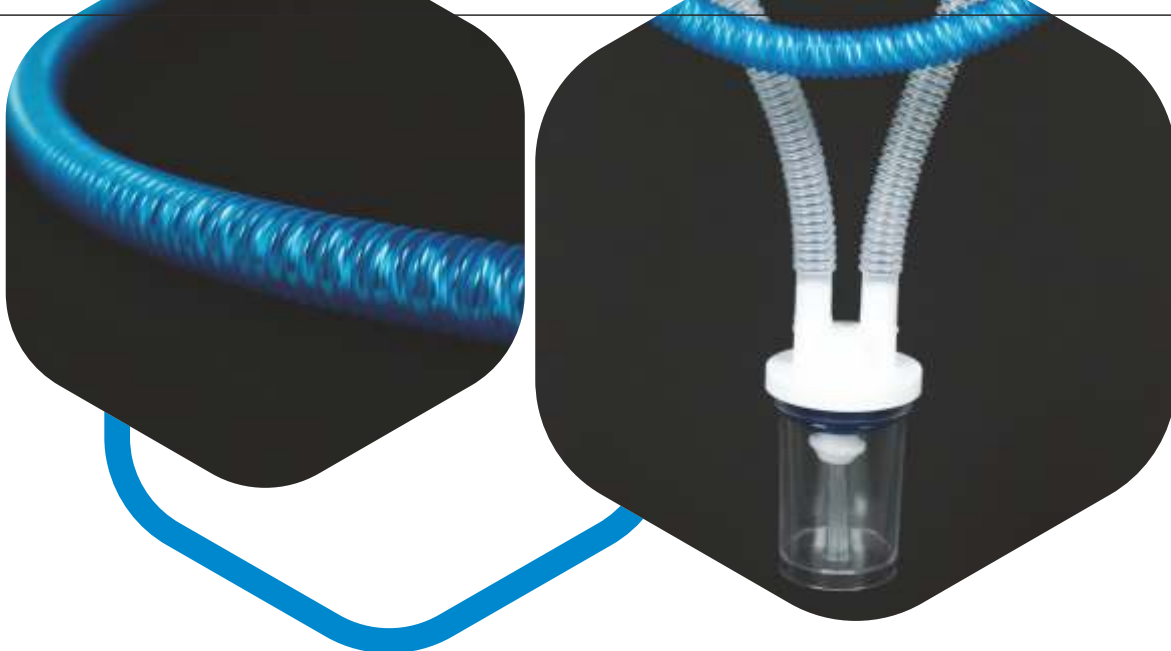
Neonatal Circuit

- Successfull notch design eliminates the risk of disconnection and leakage in the circuits
- All circuit types can be customized
- R-Vent has the capacity of customization which provide end-users with an endless number of disposable breathing circuit configurations
- Easy color identification: Blue inspiratory limb, white expiratory limb

Single Heated Wire Universal Circuit

Corrugated	Length	Code	Qty/Box
Neonatal	150 cm/~60"	75113001	50
Neonatal	150 cm/~60"	75113001-1	40

with auto feed chamber

7.6 mm
15F
10F/15M
Pressure Line
4x6 mm Ending
160 cm
22M/15F
22M   22M
Neonatal Chamber
60 cm
10F/15M   10F/15M

Adaptor Set

For MR850® HUMIDIFIER

Single Heated Wire Universal Circuit for SLE®

Corrugated	Length	Code	Qty/Box
Neonatal	150 cm/~60"	75113001-3	35
		with chamber	
Neonatal	150 cm/~60"	75113001-6	50

7.6 mm
15F
10F/15M
Pressure Line
4x6 mm Ending
160 cm
22M   22M
Neonatal Chamber
60 cm
10F/15M   10F/15M
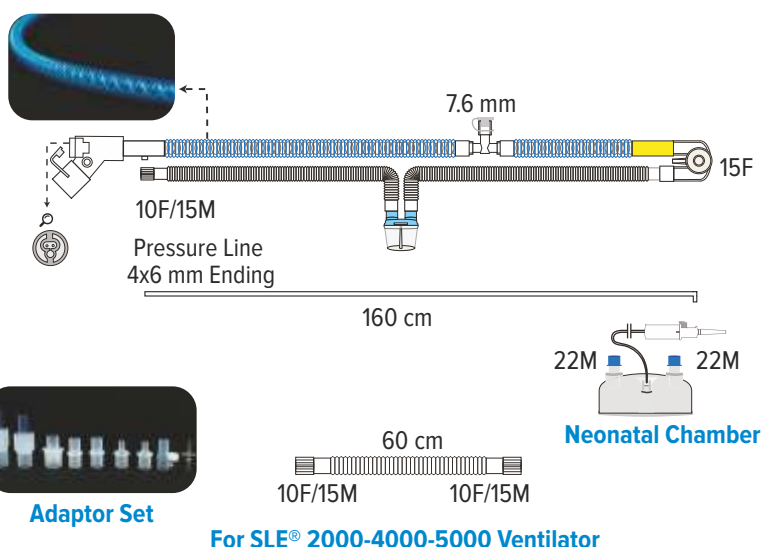
SLE 2000-4000-5000 are trademark of SLE Ltd.

Adaptor Set

For SLE® 2000-4000-5000 Ventilator

RVENT

CE 2195 EN ISO 13485:2016

Double Heated Wire Universal Circuit

Corrugated	Length	Code	Qty/Box
Neonatal	150 cm/~60"	75103002	50
Neonatal	150 cm/~60"	75103002-1	40

with auto feed chamber

7.6 mm

15F

Pressure Line 4x6 mm Ending

160 cm

Adaptor Set

60 cm

10F/15M   10F/15M

22M   22M

Neonatal Chamber

For MR850® HUMIDIFIER
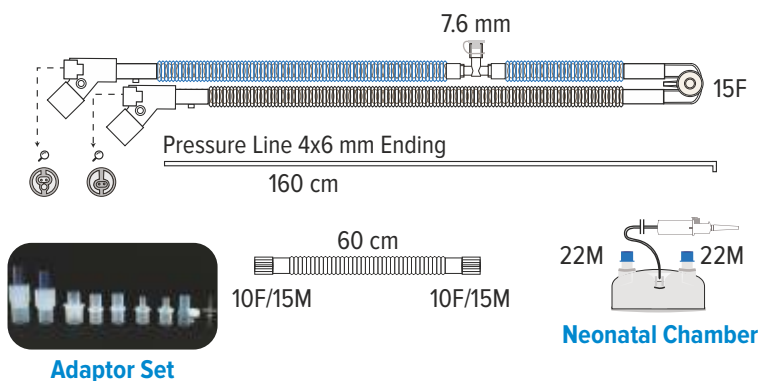
nCPAP Ventilator Circuit

Corrugated	Length	Code	Qty/Box
Neonatal	150 cm/~60"	70103009	40

7.6 mm

10M/7M

Pressure Line 4x6 mm Ending

160 cm

60 cm

10M/22F   10M/22F
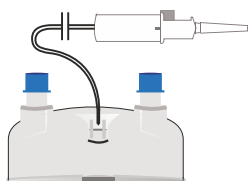
22M   22M
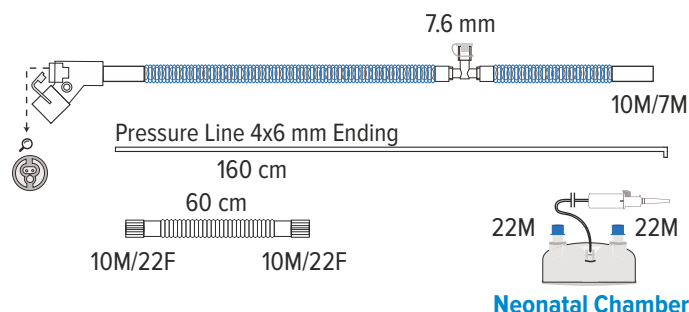
Neonatal Chamber

Humidifier Chamber

• Disposable
• Low compliance
• Suitable for F&P heater base
• Suitable to neonatal, infant, pediatric, adult ventilation
• Autofeed water level control decreasing the risk of contamination
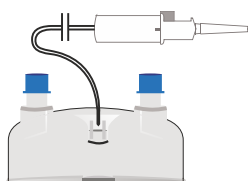• With auto-feed system

Auto-Feed Humidifier Chamber

Description	Code	Qty/Box
Adult	955	60

• Inlet/Outlet Size: 22M/22M
• Compressible volume-full: 260 ml
• Maximum water capacity: 180 ml
• Maximum peak flow: 90 l/min
• Resistance to flow: 0.06 cm H_2O @30 LPM
• Compliance: 5 ml/cm H_2O

Auto-Feed Humidifier Chamber

Description	Code	Qty/Box
Neonatal	995	60

• Inlet/Outlet Size: 22M/22M
• Compressible volume-full: 120 ml
• Maximum water capacity: 180 ml
• Maximum peak flow: 90 l/min
• Resistance to flow: 0.74 cm H_2O @2,5 LPM
• Compliance: 1,5 ml/cm H_2O

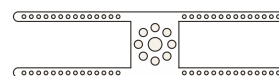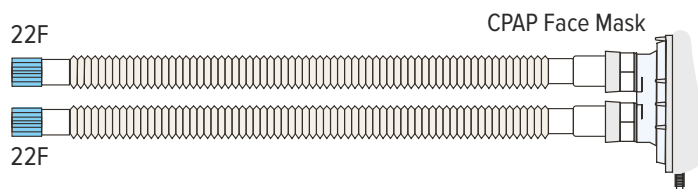# NON-INVASIVE VENTILATION CIRCUITS & ACCESSORIES

CPAP Circuits

• Continous Positive Airway Pressure (CPAP) is the method of ventilating
  a patienf applying higher pressure than enviromental atmospheric pressure
  to the airways of the patient to improve oxygenation via ventilator or CPAP machine
• CPAP prevents early end-expiratory closure of the airways and alveolar collapse
• Today CPAP is routinely used for mechanically ventilated patients or spontaneously
  breathing respiratory patients to improve the oxygenation

CPAP Indications

• Obstructive sleep apnea syndrome, ARDS, Post-operative atelectasis
• Acute respiratory distress, COPD, Cardiogenic pulmonary oedema
• Post-extubation hypoxemia, weaning

CPAP Circuit For Non-Invasive Ventilation

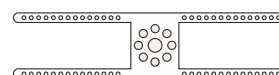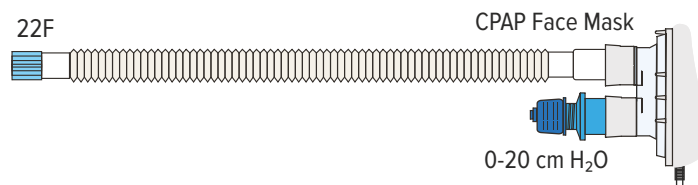| Corrugated	Length	Code	Qty/Box
Adult	160 cm/~63"	10004069	30

22F

22F

CPAP Face Mask

Headstrap

For Non-Invasive Ventilation

CPAP Circuit For Flow Generators

Corrugated	Length	Code	Qty/Box
Adult	160 cm/~63"	10004069	30

22F

CPAP Face Mask

0-20 cm H_2O

Headstrap

BPAP Circuits

- Bilevel Positive Airway Pressure (BPAP) is a modified version
  of the continuous positive airway pressure (CPAP)
- It is a mode of ventilation with cycling variations between two continuous
  positive airway pressure levels. This mode offers two different levels
  of air pressure: Increased pressure during inhalation and decreased pressure during exhalation
- In adults this mode of ventilation is effective and is being accepted with a decrease
  in need for sedatives because of the ability to breathe spontaneously during fhe entire breathing cycle
- BPAPs may work befter for those individuals who cannot comfortably breathe
  out against the fixed pressure of the standard device. Therefore BPAP is used for patients with
  restrictive or obstructive disorders, and for patients with sleep apnea who can not tolerate the high pressure of CPAP
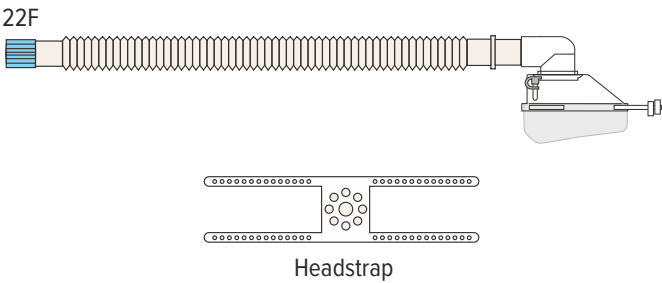
BPAP Circuit, Full Face Mask

Corrugated	Length	Code	Qty/Box
Adult	160 cm/˜63"	10004079	30

22F

Headstrap
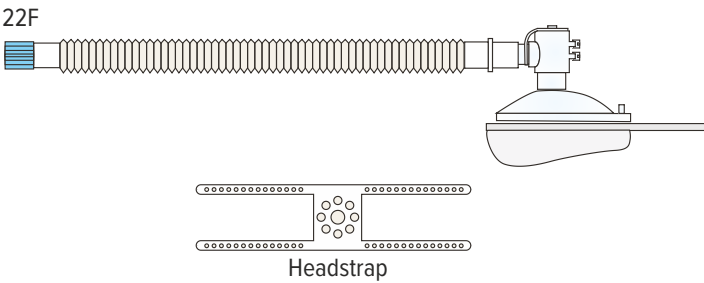
BPAP Circuit, Nasal Mask

Corrugated	Length	Code	Qty/Box
Adult	160 cm/˜63"	10004099	30

22F

Headstrap

BPAP Circuit

Smooth Bore	Length	Code	Qty/Box
Adult	180 cm/˜71"	20005009	50

- Acute core non invasive ventilation circuit
- Perfect solution for dry high flow gas

Pressure Line 4x6 mm / 3x5 mm Ending   22F

22F   Exhaust Connector
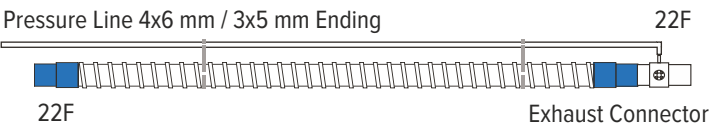
For use with Respironics BiPAP® Vision and S/T-D

RVENT

R-Vent masks offers a soft, ergonomically shaped face seal with forehead cushioning made for a comfortable and easy fit The single patient use masks provide compatible ventilation for spontaneously breathing patients who require noninvasive ventilation (NIV).

Our mask is a single-patient use mask that minimises over tightening and reduces skin irritations and breakdowns. It is Latex, PVC and DEHP Free.
• A soft, anatomically shaped silicone cushion that provides patients with greater comfort and an extremely effective seal.
• An easily adjustable forehead support fitted with a soft silicone pad that enables you to individually adjust it to each patient's nose bridge. This efficiently prevents leakages and pressure points to sensitive facial areas.
• An attached headgear, so the mask is ready to use as soon as it is removed from the packaging. Saving you time and costs.
• Both vented and non-vented variants.

Full Face Masks
with Anti-asphyxiation Valve

		Code	Size	Weight	Dead Space	Qty/Box
Full Face Mask	Vented	8600	Large	174,7 gr	360 ml	20
Full Face Mask	Vented	8610	Medium	164,7 gr	330 ml	20
Full Face Mask	Vented	8620	Small	158,7 gr	270 ml	20

Nasal Masks

		Code	Size	Dead Space	Qty/Box
Nasal Mask	Vented	8310	Medium	85 ml	20
Nasal Mask	Non-vented	8410	Medium	85 ml	20

Classic FL Tubes

The NEW spiral winded non-heated Classic FL Tubes for sleep apnea are available in two different diameters.
We offer our standard range as well as custom made solutions. Different lengths are possible.

Classic FL Tubes are very flexible and have a low flow resistance and a low compliance.
Custom designs available.

Materials	**:** (web/rib) PE/PP
ID Hose	**:** 15/19 mm
Standard Length	**:** 180 cm
Length Range	**:** 30-240 cm
Standard Cuff Fits Connector	**:** 22F/22F
Standard Colour Tube/Cuff	**:** Grey/Grey
Applications	**:** Cpap
Single Patient Use	

Classic FL Tube

Classic FL	Length	Code	Qty/Box
Classic FL 19	180 cm/~72"	HWN19018GT0WWGGI	45
Classic FL 15	180 cm/~72"	HWN15018GT0WWGGI	54

RVENT

CE 2195 EN ISO 13485:2016

Classic Tubes

The spiral winded non-heated Classic Tubes for sleep apnea are available in 2 different diameters.
We offer our standard range as well as custom made solutions. Different lengths are possible.

Classic Tubes are very strong and have a low flow resistance and a low compliance.
Custom designs available.

Materials	: (web/rib) PE/PP
ID Hose	: 15/19 mm
Standard Length	: 180 cm
Length Range	: 30-240 cm
Standard Cuff Fits Connector	: 22F/22F
Standard Colour Tube/Cuff	: Grey/Grey
Applications	: Cpap
Single Patient Use	

Classic PAP Tube

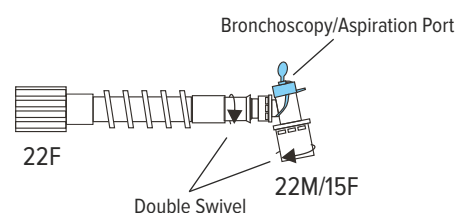| Classic PAP	Length	Code	Qty/Box
Classic PAP 19	180 cm/~72"	HUE19018GT0SSGGK	45
Classic PAP 15	180 cm/~72"	HUE15018GT0WWGGI	60

CATHETER MOUNTS
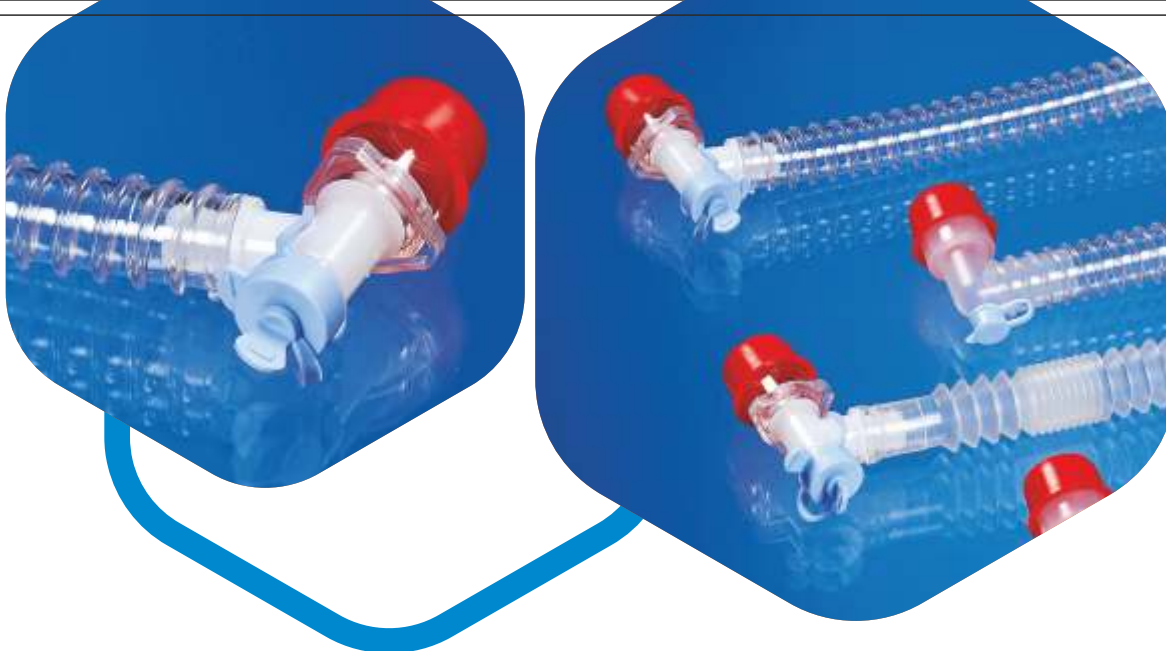
Catheter Mount

- R-Vent offers a variety of different catheter mounts for connection of the breathing system or/and filter to the patient.
- The products are CE marked and comply with ISO 13485:2016 quality regulation.
- Available as sterile/non sterile in three different tubing types: Corrugated, extendable, smoothbore.
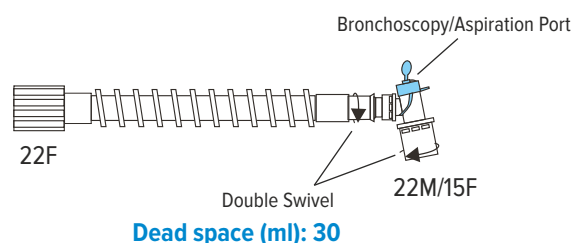- CO_2 aspiration bronchoscopy ported.
- Sterile option available

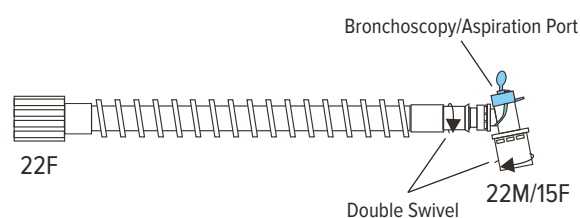| Smooth Bore	Length	Code	Qty/Box
	15 cm/~6"	312300	75

Bronchoscopy/Aspiration Port

15M

22M/15F

Double Swivel
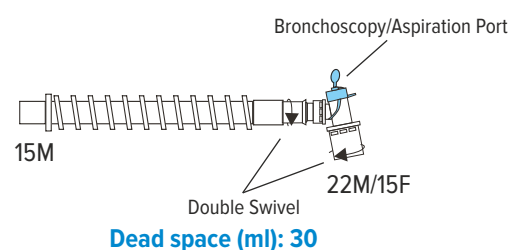
Dead space (ml): 30

Smooth Bore	Length	Code	Qty/Box
	5 cm/~2"	316100	75

Bronchoscopy/Aspiration Port

22F

22M/15F

Double Swivel

Smooth Bore	Length	Code	Qty/Box
	15 cm/~6"	316300	75

Bronchoscopy/Aspiration Port

22F

22M/15F

Double Swivel

Dead space (ml): 30

Smooth Bore	Length	Code	Qty/Box
	20 cm/~8"	316400	75

Bronchoscopy/Aspiration Port

22F

22M/15F

Double Swivel
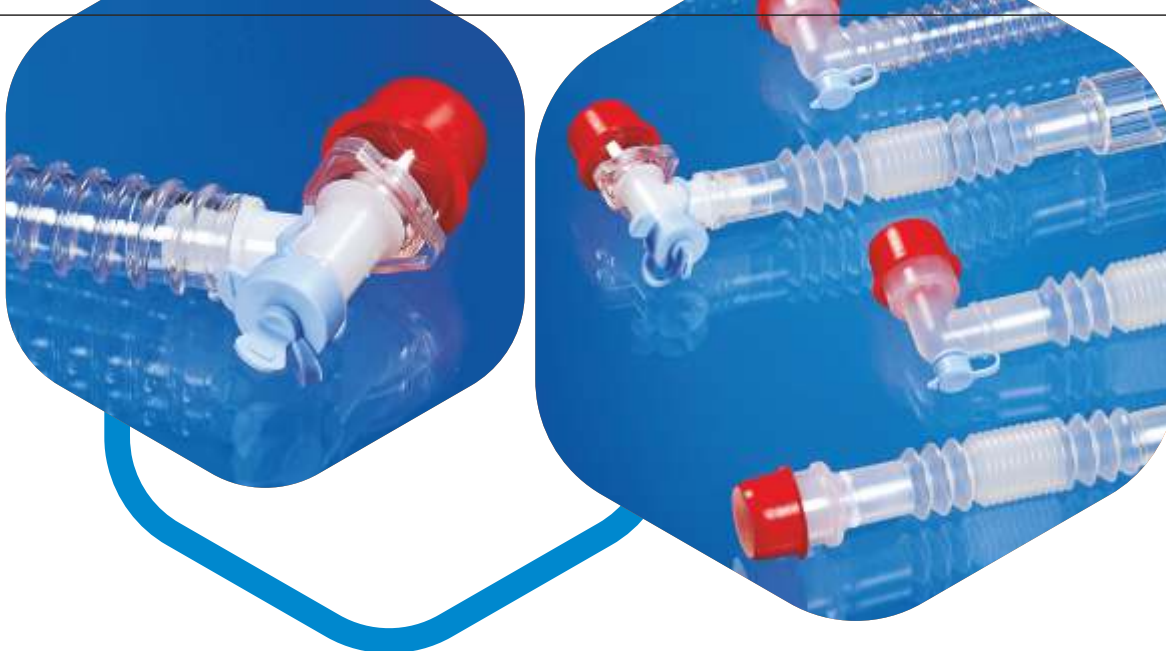
Smooth Bore	Length	Code	Qty/Box
	15 cm/~6"	322300	75

15M

22M/15F

Co^2 Port
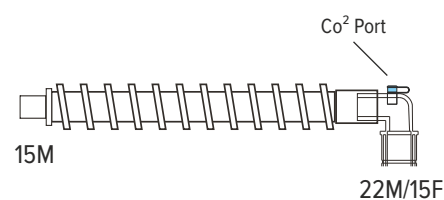
Dead space (ml): 30

Smooth Bore	Length	Code	Qty/Box
	15 cm/~6"	326300	75

22F

22M/15F

Co^2 Port
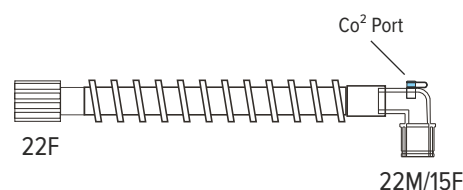
Dead space (ml): 30

Extendible	Length	Code	Qty/Box
	15 cm/~6"	313300	50

15M

Bronchoscopy/Aspiration Port

Double Swivel

22M/15F
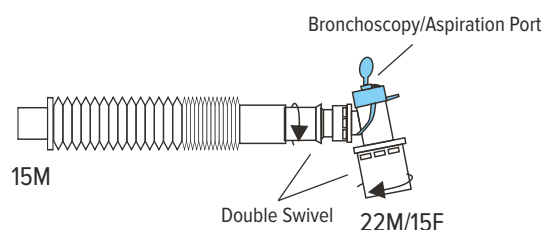
Dead space (ml): Close: 25, Close: 40

Extendible	Length	Code	Qty/Box
	15 cm/~6"	317300	50

22F

Bronchoscopy/Aspiration Port

Double Swivel

22M/15F
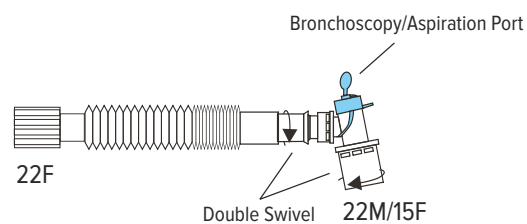
Dead space (ml): Close: 25, Open: 40
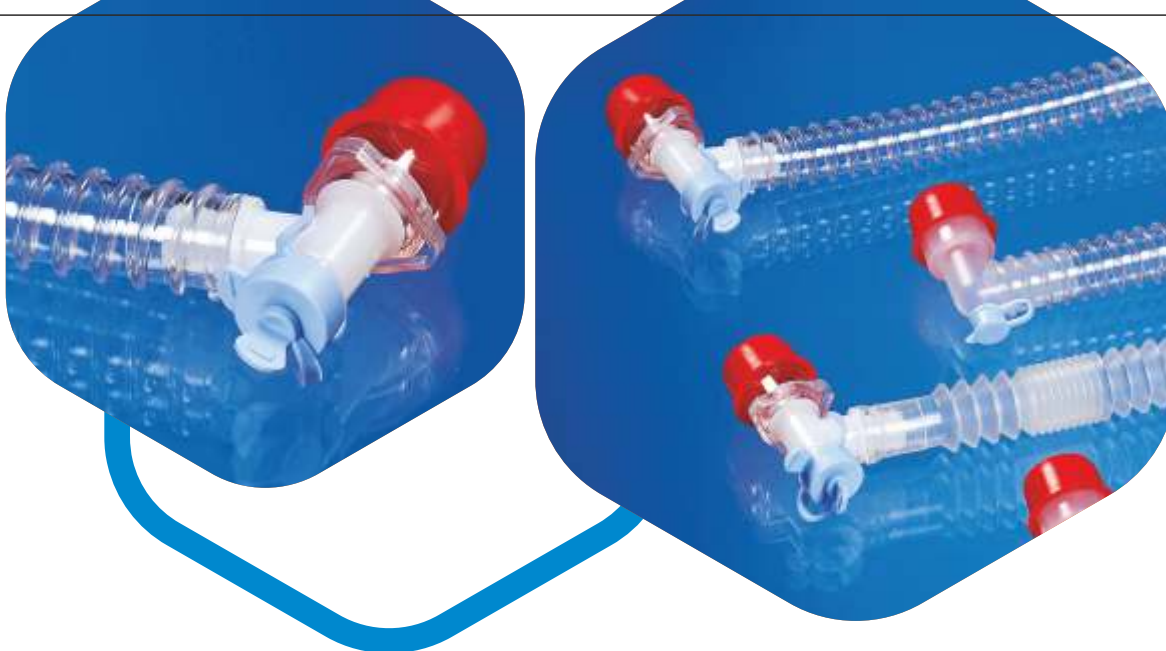
Extendible	Length	Code	Qty/Box
	15 cm/~6"	323300	50

15M

Co^2 Port

22M/15F
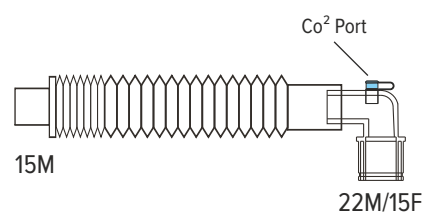
Dead space (ml): Close: 25, Open: 40

Extendible	Length	Code	Qty/Box
	15 cm/~6"	327300	50

22F

Co^2 Port

22M/15F
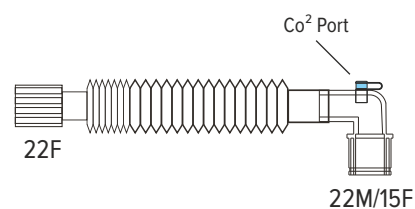
Dead space (ml): Close: 25, Open: 40

Extendible	Length	Code	Qty/Box
	15 cm/~6"	367300	50

22F   22M/15F
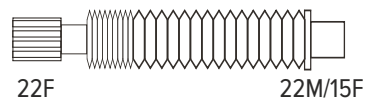
Dead Space (ml): Close: 22, Open: 37

Smooth Bore	Length	Code	Qty/Box
	15 cm/~6"	366300	75

22F   22M/15F
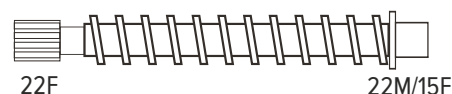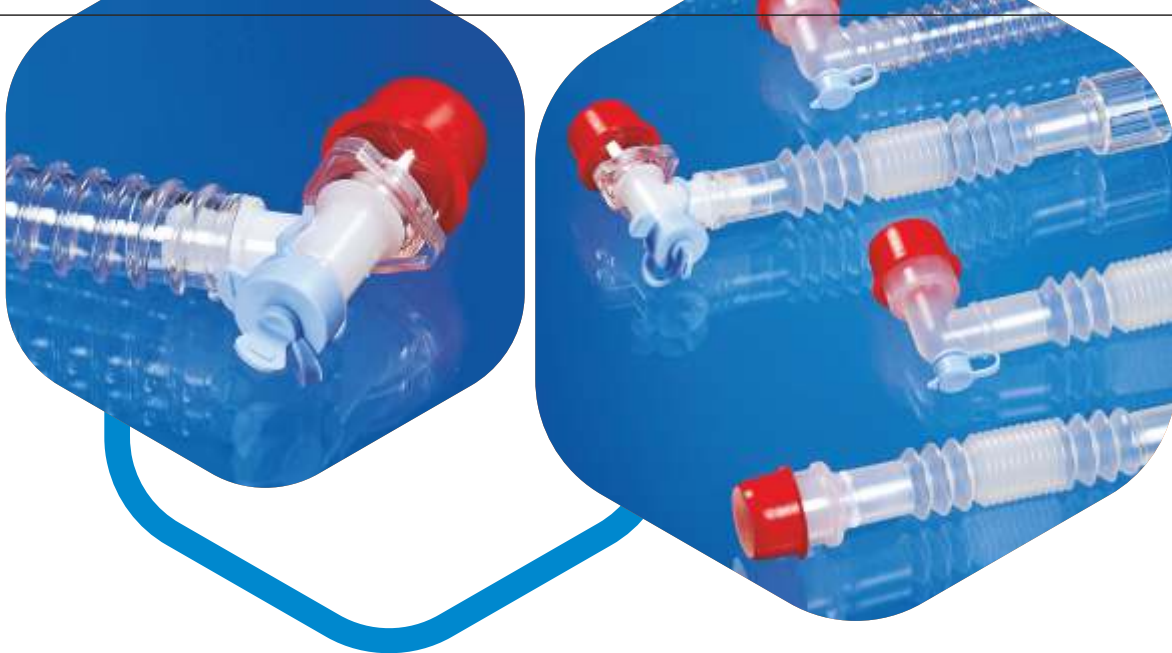
Dead Space (ml): 27

Extendible

Length	Code	Qty/Box
15 cm/~6"	377300	50

22F

Double Swivel 22M/15F
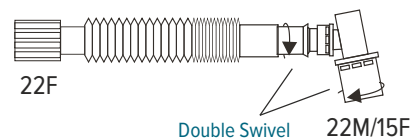
Dead Space (ml): Close: 25, Open: 40

Smooth Bore

Length	Code	Qty/Box
15 cm/~6"	376300	75

22F

Double Swivel 22M/15F
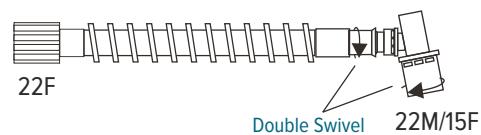
Dead Space (ml): 30

Extendible+Filter

Length	Code	Qty/Box
15 cm/~6"	317340	40

Bronchoscopy/Aspiration Port

22F

Double Swivel 22M/15F
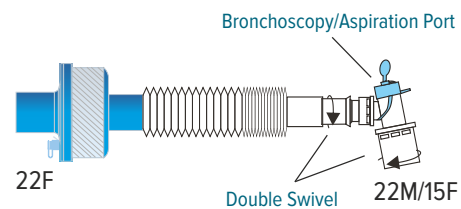
Dead Space (ml): Close: 103, Open: 117

Swivel Catheter Mount

Code	Qty/Box
310000	75

Double Swivel

Bronchoscopy/Aspiration Port

Dead Space (ml): 3

RVENT
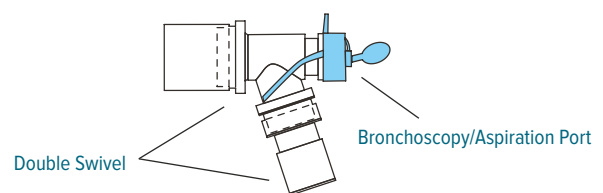
FILTERS

Bacterial-Viral Filters

- Transparent,easy to see the surface
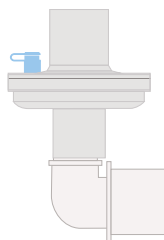- High efficiency with low resistance electrostatic filters
- Effective to prevent microbial cross contamination
- Remarkably efficient heat and moisture exchangers

- 15 mm/22 mm connectors conforming to ISO Standards
- Retainable cap
- Inspected and approved by third party experts

Bacterial-Viral
Filter

Code	40920
Sterile Code	40920S
Qnty/Box	50
Tidal Volume (ml)	150-1500
Dead Space (ml)	33
Bacterial-Viral Efficiency	>99,999%
Viral Efficiency	>99,99%
ISO 23328-1 Salt Test	>98,7%
Resistance to Flow	30 lt/min 8 mm H_2O
	60 lt/min 17 mm H_2O
	90 lt/min 27 mm H_2O
Weight (gr)	17,2
Fittings	22F-15M / 22M-15F

Bacterial-Viral
Filter Angled

Code	40921
Sterile Code	40921S
Qnty/Box	50
Tidal Volume (ml)	150-1500
Dead Space (ml)	36
Bacterial-Viral Efficiency	>99,999%
Viral Efficiency	>99,99%
ISO 23328-1 Salt Test	>98,7%
Resistance to Flow	30 lt/min 8 mm H_2O
	60 lt/min 17 mm H_2O
	90 lt/min 27 mm H_2O
Weight (gr)	22,7
Fittings	22F-15M / 22M-15F

Bacterial-Viral
Filter without port

Code	40900
Sterile Code	40900S
Qnty/Box	50
Tidal Volume (ml)	150-1500
Dead Space (ml)	33
Bacterial-Viral Efficiency	>99,999%
Viral Efficiency	>99,99%
ISO 23328-1 Salt Test	>98,7%
Resistance to Flow	30 lt/min 8 mm H_2O
	60 lt/min 17 mm H_2O
	90 lt/min 27 mm H_2O
Weight (gr)	17,2
Fittings	22F-15M / 22M-15F

Bacterial-Viral
Filter without
port steril

Code	40901
Sterile Code	40901S
Qnty/Box	50
Tidal Volume (ml)	150-1500
Dead Space (ml)	36
Bacterial-Viral Efficiency	>99,999%
Viral Efficiency	>99,99%
ISO 23328-1 Salt Test	>98,7%
Resistance to Flow	30 lt/min 8 mm H_2O
	60 lt/min 17 mm H_2O
	90 lt/min 27 mm H_2O
Weight (gr)	22,7
Fittings	22F-15M / 22M-15F

RVENT

CE 2195 EN ISO 13485:2016
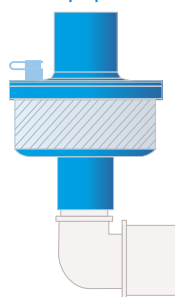
Bacterial-Viral HME Filters

- Transparent
- Low dead space
- Gas sampling port available
- Straight and angled choices
- Low resistance
- Latex-free
- Inspected and approved by third party experts

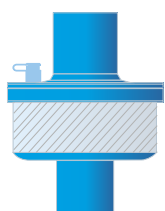**Bacterial-Viral HME**
Filter with paper HME
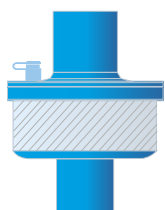
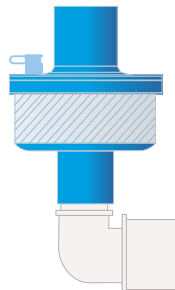| Code	40820
Sterile Code	40820S
Qnty/Box	45
Tidal Volume (ml)	150-1500
Dead Space (ml)	53
Bacterial-Viral Efficiency	>99,999%
Viral Efficiency	>99,99%
ISO 23328-1 Salt Test	>98,7%
Resistance to Flow	30 lt/min 10 mm H_2O
	60 lt/min 22 mm H_2O
	90 lt/min 36 mm H_2O
Weight (gr)	26,2
Fittings	22F-15M / 22M-15F
Humidification efficiency	37,3 mg/l H_2O (500 ml tid. vol)

Bacterial-Viral HME
Filter Angled with paper HME

Code	40821
Sterile Code	40821S
Qnty/Box	45
Tidal Volume (ml)	150-1500
Dead Space (ml)	56
Bacterial-Viral Efficiency	>99,999%
Viral Efficiency	>99,99%
ISO 23328-1 Salt Test	>98,7%
Resistance to Flow	30 lt/min 10 mm H_2O
	60 lt/min 22 mm H_2O
	90 lt/min 36 mm H_2O
Weight (gr)	29,2
Fittings	22F-15M / 22M-15F
Humidification efficiency	37,3 mg/l H_2O (500 ml tid. vol)

HME with paper

Code	41720
Sterile Code	41720S
Qnty/Box	45
Tidal Volume (ml)	150-1500
Dead Space (ml)	53
Resistance to Flow	30 lt/min 10 mm H_2O
	60 lt/min 22 mm H_2O
	90 lt/min 36 mm H_2O
Weight (gr)	26,2
Fittings	22F-15M / 22M-15F
Humidification efficiency	37,3 mg/l H_2O (500 ml tid. vol)

HME Angled with paper

Code	41721
Sterile Code	41721S
Qnty/Box	45
Tidal Volume (ml)	150-1500
Dead Space (ml)	55
Resistance to Flow	30 lt/min 10 mm H_2O
	60 lt/min 22 mm H_2O
	90 lt/min 36 mm H_2O
Weight (gr)	31,7
Fittings	22F-15M / 22M-15F
Humidification efficiency	37,3 mg/l H_2O (500 ml tid. vol)

# HEPA Filters (Mechanical Filters)

- Profecfs patients airways effectively from exogenous microbial loads
- Reduces the risk of extrinsic colonization and infection
- Prevents any cross-contamination between patient and machine

- Indicated for use with patients whose upper airways are being bypassed by an artificial tracheal airway ar receiving artificial

Adult HEPA Filter
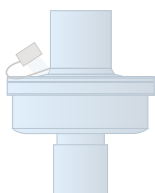
Code	40320
Sterile Code	40320S
Qnty/Box	40
Tidal Volume (ml)	200-1500
Dead Space (ml)	52
Filtration Efficiency	BFE 99,999%; VFE 99,999%
Resistance to Flow	30 lt/min 156 Pa
	60 lt/min 326 Pa
	90 lt/min 508 Pa
Weight (gr)	40
Fittings	22F-15M / 22M-15F

Adult HEPA Filter with HME
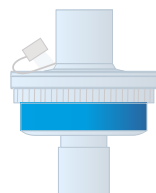
Code	41520
Sterile Code	41520S
Qnty/Box	40
Tidal Volume (ml)	200-1500
Dead Space (ml)	46
Filtration Efficiency	BFE 99,999%; VFE 99,999%
Humidification Efficiency	32,2 mg/l H_2O (500 ml. tid. vol.)
Resistance to Flow	30 lt/min 129 Pa
	60 lt/min 305 Pa
	90 lt/min 542 Pa
Weight (gr)	28,4
Fittings	22F-15M / 22M-15F

Mini Filters

- Optimal filtration performance
- Flat ergonomic design
- Small and light weight
- Gas sampling port

- Straight and angled version
- Latex free
- Inspected and approved by third party experts

Bacterial-Viral HME Pediatric Filter with paper HME

Code	40410
Sterile Code	40410S
Qnty/Box	75
Tidal Volume (ml)	150-300
Dead Space (ml)	12
Filtration Efficiency	BFE 99,999%; VFE 99,9%
Humidification Efficiency	33 mg/l H_2O (250 ml. tid. vol.)
Resistance to Flow	30 lt/min 13 mm H_2O
	60 lt/min 33 mm H_2O
	90 lt/min 55 mm H_2O
Weight (gr)	13,5
Fittings	22F-15M / 22M-15F

Bacterial-Viral HME Pediatric Filter Angled with paper HME

Code	40411
Sterile Code	40411S
Qnty/Box	75
Tidal Volume (ml)	150-300
Dead Space (ml)	12
Filtration Efficiency	BFE 99,999%; VFE 99,9%
Humidification Efficiency	33 mg/l H_2O (250 ml. tid. vol.)
Resistance to Flow	30 lt/min 13 mm H_2O
	60 lt/min 33 mm H_2O
	90 lt/min 55 mm H_2O
Weight (gr)	18,5
Fittings	22F-15M / 22M-15F

Bacterial-Viral HME Neonatal Filter with paper HME

Code	40210
Sterile Code	40210S
Qnty/Box	75
Tidal Volume (ml)	50-150
Dead Space (ml)	8
Filtration Efficiency	BFE 99,999%; VFE 99,99%
Humidification Efficiency	22 mg/l H_2O (250 ml. tid. vol.)
Resistance to Flow	10 lt/min 13 mm H_2O
	15 lt/min 24 mm H_2O
	30 lt/min 60 mm H_2O
Weight (gr)	7,5
Fittings	15M / 15F

Bacterial-Viral HME Neonatal Filter Angled with paper HME
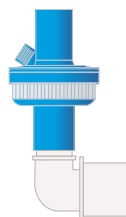
Code	40211
Sterile Code	40211S
Qnty/Box	75
Tidal Volume (ml)	50-150
Dead Space (ml)	8
Filtration Efficiency	BFE 99,999%; VFE 99,9%
Humidification Efficiency	22 mg/l H_2O (250 ml. tid. vol.)
Resistance to Flow	10 lt/min 13 mm H_2O
	15 lt/min 24 mm H_2O
	30 lt/min 60 mm H_2O
Weight (gr)	13,5
Fittings	15M / 15F

RVENT

Tracheostomy HMEs

• Extreme low resistance

HME
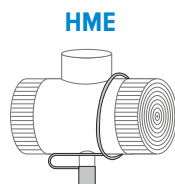
Code	40100
Sterile Code	40100S
Qnty/Box	75
Tidal Volume (ml)	200-1500
Dead Space (ml)	6
Humidification Efficiency	25 mg/l H_2O (500 ml. tid. vol.)
Resistance to Flow	30 lt/min 5 mm H_2O
Weight (gr)	5
Connections	15F

Tracheostomy HMEs

• Paper Media

HME with Oxygen Tubing
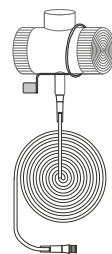
Code	40200
Sterile Code	40200S
Qnty/Box	50
Tidal Volume (ml)	200-1500
Dead Space (ml)	13
Humidification Efficiency	25 mg/l H_2O (500 ml. tid. vol.)
Resistance to Flow	30 lt/min 5 mm H_2O
Weight (gr)	50,5
Fittings	15F / 5M connector
	5M Oxygen Tubing Connedion

Tracheostomy HMEs

HME
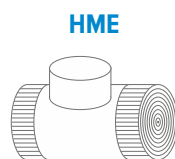
Code	41600
Sterile Code	41600S
Qnty/Box	75
Tidal Volume (ml)	200-1500
Dead Space (ml)	6
Humidification Efficiency	25 mg/l H_2O (500 ml. tid. vol.)
Resistance to Flow	30 lt/min 5 mm H_2O
Weight (gr)	5
Connections	15F

Tracheostomy HMEs

• Central port for suctioning & sampling
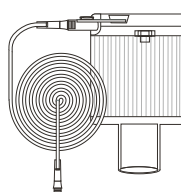• Extreme low resistance

HME
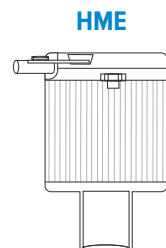
Code	41100
Sterile Code	41100S
Qnty/Box	75
Tidal Volume (ml)	200-1500
Dead Space (ml)	7
Humidification Efficiency	30 mg/l H_2O (500 ml. tid. vol.)
Resistance to Flow	30 lt/min 3 mm H_2O
	60 lt/min 5 mm H_2O
	90 lt/min 7 mm H_2O
Weight {gr)	9,5
Connections	15F / 5M connector

Tracheostomy HMEs

• Recommended use; for patients over 15kg
• Paper Media

HME with Oxygen Tubing

| Code	41200
Sterile Code	41200S
Qnty/Box	50
Tidal Volume (ml)	200-1500
Dead Space (ml)	7
Humidification Efficiency	30 mg/l H_2O (500 ml. tid. vol)
Resistance to Flow	30 lt/min 3 mm H_2O
	60 lt/min 5 mm H_2O
	90 lt/min 7 mm H_2O
Weight (gr)	55
Fittings	15F / 5M connector
	5M Oxygen Tubing Connedion

Gas Sampling Lines

• Prevents waste of anesthetic gases and accurately measures CO_2, O_2 and N_2O levels
• Manufactured to the highest quality standards using medical-grade materials
• Disposabie, single patient use
• Non-sterile, latex-free
• 3 layer tubing to prevent diffusion of anesthetic gasses (PE/EVA/PVC)
• M/M and F/M luer options available
• 2/3 meter length options available to arrange distance from anesthesia circuit to the monitor
• For moisture and bacterial contamination protection, gas sampling lines with filters of 0.5p microns are available

Gas Monitoring Lines
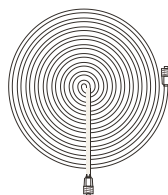
Tubing	Connection	Length	Code	Qty/Box
1,20 mmID X 2,80 mmOD Tubing	male-male connector	3 m /~118"	3114	100
1,20 mmID X 2,80 mmOD Tubing	male-female connector	3 m /~118"	3104	100
1,20 mmID X 2,80 mmOD Tubing	male-male connector	2 m /~79"	2114	100
1,20 mmID X 2,80 mmOD Tubing	male-female connector	2 m /~79"	2104	100

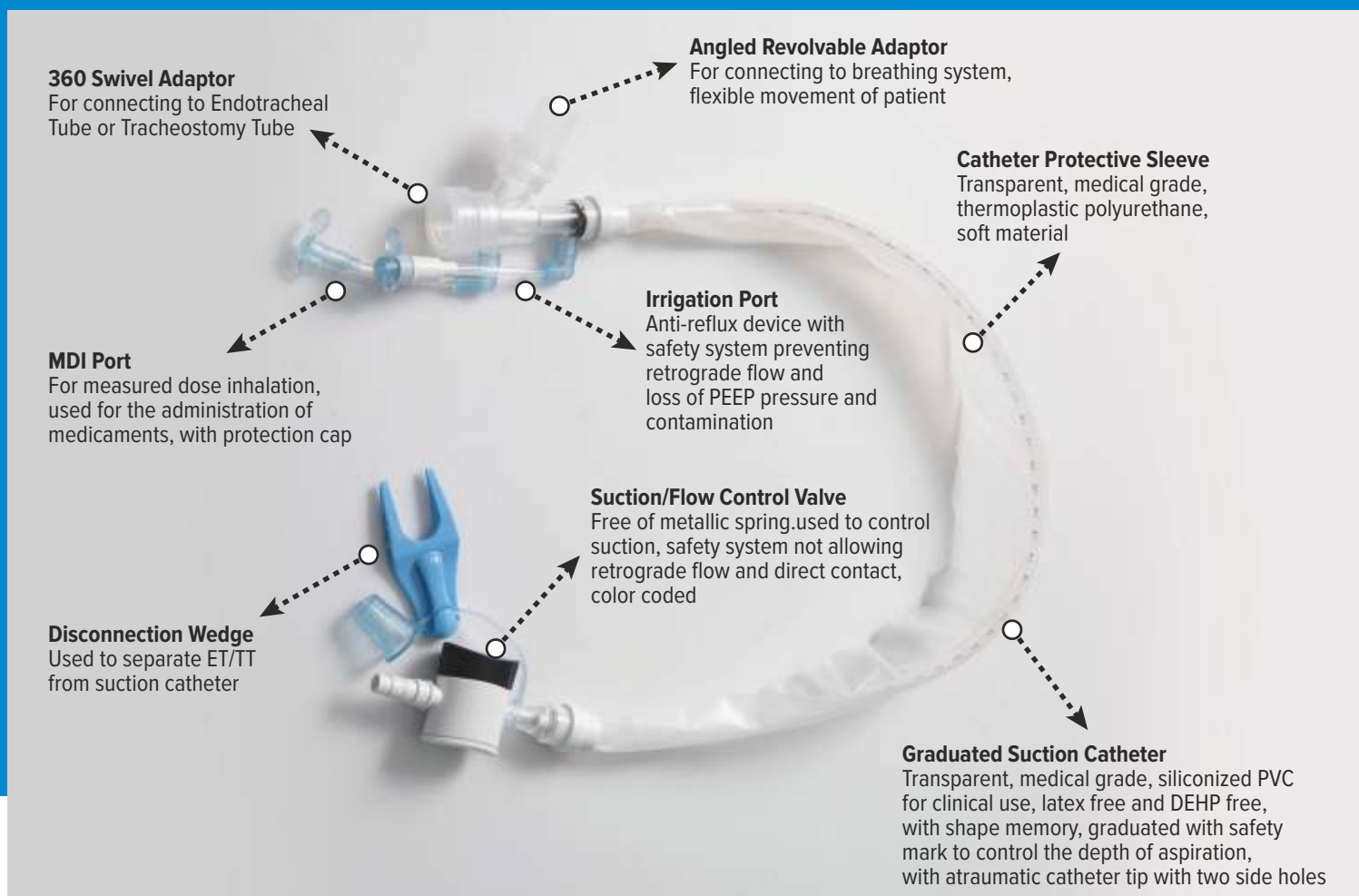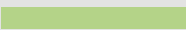## Gas Monitoring Lines + 0,5 Micron Filter
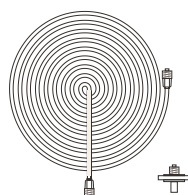
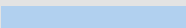| Tubing	Connection	Length	Code	Qty/Box
1,20 mmID X 2,80 mmOD Tubing	male-male connector	3 m /~118"	3114F	100
1,20 mmID X 2,80 mmOD Tubing	male-female connector	3 m /~118"	3104F	100

Closed Suction Systems

- Minimum risk of hypoxemia and containment of potentially infected secretions
- Facilitation of continuous mechanical ventilation and oxygenation for airway suctioning of critically ill patients on ventilatory support
- Fast size recognition with color-coded rings
- Cost effective, safe and convenient use
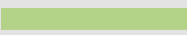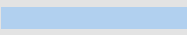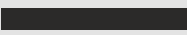
24 Hours Closed Suction System
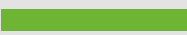
- Sterile, single packaged
- 100 % latex-free
- Recommended time of use: 24 hours
- Without isolation valve

360 Swivel Adaptor
For connecting to Endotracheal Tube or Tracheostomy Tube

Angled Revolvable Adaptor
For connecting to breathing system, flexible movement of patient

Catheter Protective Sleeve
Transparent, medical grade, thermoplastic polyurethane, soft material

Irrigation Port
Anti-reflux device with safety system preventing retrograde flow and loss of PEEP pressure and contamination

MDI Port
For measured dose inhalation, used for the administration of medicaments, with protection cap

Suction/Flow Control Valve
Free of metallic spring.used to control suction, safety system not allowing retrograde flow and direct contact, color coded

Disconnection Wedge
Used to separate ET/TT from suction catheter

Graduated Suction Catheter
Transparent, medical grade, siliconized PVC for clinical use, latex free and DEHP free, with shape memory, graduated with safety mark to control the depth of aspiration, with atraumatic catheter tip with two side holes

Color	Code	Size	O.D (mm)	I.D (mm)	Length (mm)	Qty/Box
	24050	5 Fr	1,7	1,0	300	80
	24060	6 Fr	2,0	1,1	300	80
	24070	7 Fr	2,3	1,5	300	80
	24080	8 Fr	2,7	1,6	300	80
	24100	10 Fr	3,3	2,1	540	80
	24120	12 Fr	4,0	2,6	540	80
	24140	14 Fr	4,7	3,1	540	80
	24160	16 Fr	5,3	3,6	540	80

72 Hours Closed Suction System

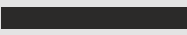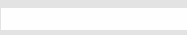- Extended tise up to 72 hours thanks to isolation valve
- Soft and strong catheter sleeve
- Truely closed system
- No loss of PEEP

- Cost effective
- Wide range of use: Adult & pediatric
- Sterile, single patient use

Color	Code	Size	O.D (mm)	I.D (mm)	Length (mm)	Qty/Box
	72050	5 Fr	1,7	1,0	300	80
	72060	6 Fr	2,0	1,1	300	80
	72070	7 Fr	2,3	1,5	300	80
	72080	8 Fr	2,7	1,6	300	80
	72100	10 Fr	3,3	2,1	540	80
	72120	12 Fr	4,0	2,6	540	80
	72140	14 Fr	4,7	3,1	540	80
	72160	16 Fr	5,3	3,6	540	80

Irrigation Port
Anti-reflux device with safety system preventing retrograde flow and loss of PEEP pressure and contamination

Graduated Suction Catheter
Transparent, medical grade. siliconized PVC for clinical use,latex free and DEHP free, with shape memory, graduated with safety mark to control the depth of aspiration, with atraumatic catheter tip with two side holes

Suction/Flow Control Valve
Free of metalic spring, used to control suction, safety system not allowing retrograde flow and direct contact, color coded

MDI Port
For measured dose inhalation, used for the administration of medicaments, with protection cap

Isolation Valve
For preventing fluids to flow into ET during irrigation/aspiration, isolating catheter for rinsing on the 72-hour system

Catheter Protective Sleeve
Transparent, medical grade, thermoplastic polyurethane, soft material

360 Swivel Adaptor
For connecting to Endotracheal Tube or Tracheostomy Tube

Angled Revolvable Adaptor
For connecting to breathing system, flexible movement of patient

Disconnection Wedge
Used to separate ET/TT from suction catheter

Tracheostomy Closed Suction System

- Designed for tracheostomy intubated patients
- Atraumatic dual density, 300 mm length catheter for avoiding tracheal irritation
- Depth measurement

- Transparent sleeve
- For extended 72 hours of use
- MDI & Irrigation port available
- Wide range of use: Adult & pediatric

| Color	Code	Size	O.D (mm)	I.D (mm)	Length (mm)	Qty/Box
	72101	10 Fr	3,3	2,1	300	80
	72121	12 Fr	4,0	2,6	300	80
	72141	14 Fr	4,7	3,1	300	80
	72161	16 Fr	5,3	3,6	300	80

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CE 2195 EN ISO 13485:2016

BVM Resuscitators

- Medical grade PVC material
- Disposable
- Latex-free and leakage free
- Single hand operate,elastic material with easy squeezing and well recovery
- Three sizes available - Adult, Pediatric and Infant
- Pressure Pop Off Valve
- Meef ISO Standard

BVM Resuscitator Mask, O$_2$ Tubing
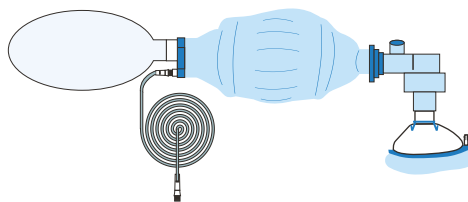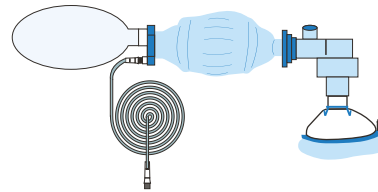

BVM Resuscitator Large, Mask, O$_2$ Tubing

Code	Qty/Box
9000	24
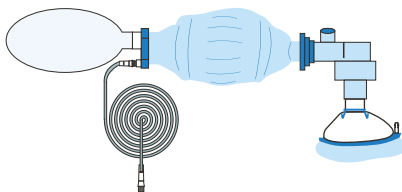
BVM Resuscitator Medium, Mask, O$_2$ Tubing

Code	Qty/Box
9010	24

BVM Resuscitator Smal, Mask, O$_2$ Tubing

Code	Qty/Box
9020	24

BVM Resuscitator O₂ Tubing
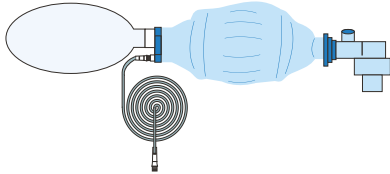
BVM Resuscitator Large, O₂ Tubing

Code	Qty/Box
9030	24

BVM Resuscitator Medium, O₂ Tubing

Code	Qty/Box
9040	24

BVM Resuscitator Small, O₂ Tubing

Code	Qty/Box
9050	24

BVM Resuscitator Mask, O₂ Tubing, Peep Valve
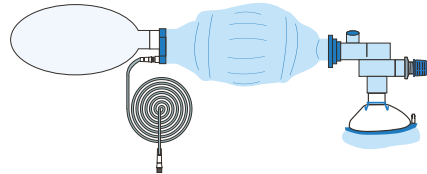
BVM Resuscitator Large, Mask, O₂ Tubing, Peep Valve
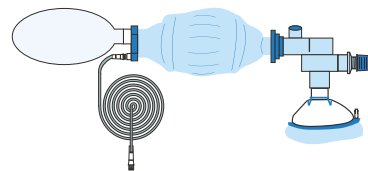
Code	Qty/Box
9060	24

BVM Resuscitator Medium, Mask, O₂ Tubing, Peep Valve
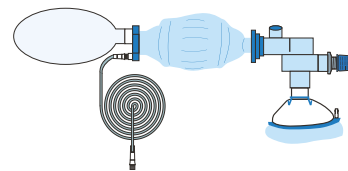
Code	Qty/Box
9070	24

BVM Resuscitator Small, Mask, O₂ Tubing, Peep Valve

Code	Qty/Box
9080	24

BVM Resuscitator Mask, O$_2$ Tubing, Manometer

BVM Resuscitator Mask, O$_2$ Tubing, Manometer, Peep Valve
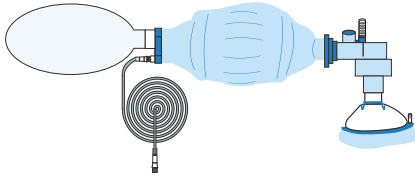
BVM Resuscitator Large, Mask, O$_2$ Tubing, Manometer

Code	Qty/Box
9031	24
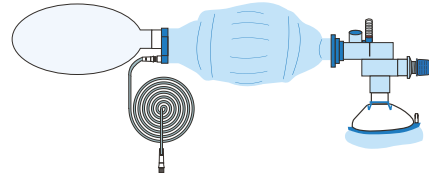
BVM Resuscitator Large, Mask, O$_2$ Tubing, Manometer, Peep Valve

Code	Qty/Box
9061	24
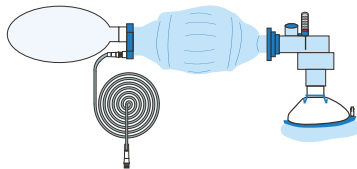
BVM Resuscitator Medium, Mask, O$_2$ Tubing, Manometer

Code	Qty/Box
9041	24
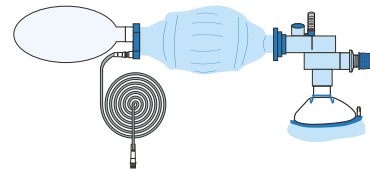
BVM Resuscitator Medium, Mask, O$_2$ Tubing, Manometer, Peep Valve

Code	Qty/Box
9071	24
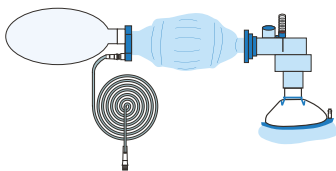
BVM Resuscitator Small, Mask, O$_2$ Tubing, Manometer

Code	Qty/Box
9051	24
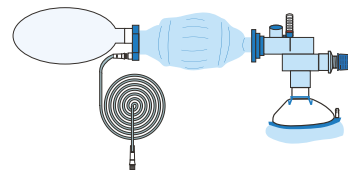
BVM Resuscitator Small, Mask, O$_2$ Tubing, Manometer, Peep Valve

Code	Qty/Box
9081	24

Anesthesia Masks

• Designed for anesthesia, respiratory or resuscitation
• Leak-proof, soft and comfortable seal cushion in facial contoured design
• Color coded hook ring for easy size identification
• Single patient use ta prevent cross contamination
• Light weight for patient comfort
• Standard and scented types
• Latex-free
• Available in different sizes
• Meets ISO 5356 standard
• Transparent to allow easy observation
• Ideal for single patient use to reduce risk of cross infection

Economy Mask

	Code	Size	Weight	Dead Space	Qty/Box
Respiratory, anesthesia mask #5	8050	Large	49,4 gr	255 ml	100
Respiratory, anesthesia mask #4	8040	Medium	38,6 gr	200 ml	100
Respiratory, anesthesia mask #3	8030	Small	28,9 gr	140 ml	100
Respiratory, anesthesia mask #2	8020	Child	23,6 gr	92 ml	100
Respiratory, anesthesia mask #1	8010	Infant	13,3 gr	51 ml	100
Respiratory, anesthesia mask #0	8000	Neo-nate	9,8 gr	28 ml	100

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2195 EN ISO 13485:2016

Pvc-free Anesthesia Masks

• Non PVC
• Lower impact on patient and environment
• Lighter, better aging, not requiring problematic chemicals, easily recycled
• Transparent cover providing excellent visibility
• Soft air cushion assuring comfortable face fitting
• Available in different sizes
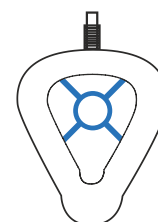
	Code	Size	Qty/Box
Respiratory, anesthesia mask #6	8160	Large	100
Respiratory, anesthesia mask #5	8150	Medium	100
Respiratory, anesthesia mask #4	8140	Small	100
Respiratory, anesthesia mask #3	8130	Pediatric	100
Respiratory, anesthesia mask #2	8120	Infant	100
Respiratory, anesthesia mask #1	8110	Neo-nate	100

Rotational & Scented Masks

• Flexible, can be adjusted by hand
• Vanilla scented

	Code	Size	Weight	Dead Space	Qty/Box
Respiratory, anesthesia mask #5	8750	Large	51,0 gr	250 ml	100
Respiratory, anesthesia mask #4	8740	Medium	40,6 gr	150 ml	100
Respiratory, anesthesia mask #3	8730	Small	31,2 gr	100 ml	100
Respiratory, anesthesia mask #2	8720	Child	16,7 gr	40 ml	100
Respiratory, anesthesia mask #1	8710	Infant	13,8 gr	25 ml	100
Respiratory, anesthesia mask #0	8700	Neo-nate	13,1 gr	15 ml	100

Notes

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