

**Medtronic**

# Designed for comfort, safety, and patient compliance

Microstream™ Advance filter lines  
Microstream™ Luer sampling lines



Quick  
reference  
guide

For use in the U.S. only



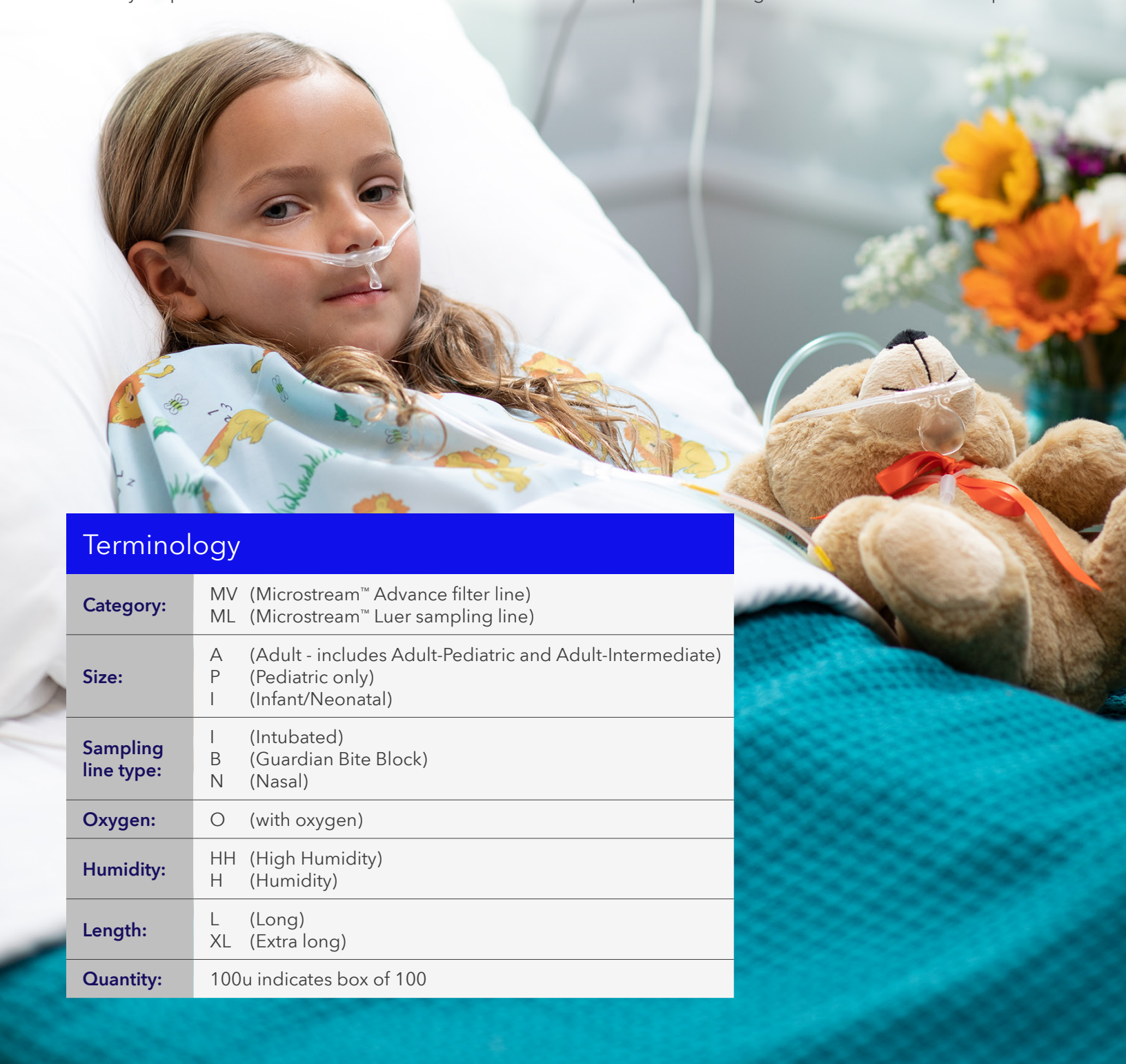
# Minimize respiratory compromise with our enhanced capnography filter and sampling lines

It's the little things that create the biggest impact for your patients. From how a device touches their skin to the sounds in their rooms to the smells that remind them they are away from home. Providing the right sampling line for every patient can make all the difference when it comes to improving their experience.

Offering the reliability and accuracy you've come to expect from Microstream™ technology, Microstream™ Advance filter lines and Microstream™ Luer sampling lines use a neutral scent and soft, kink-resistant tubing.

The modified placement of the drying element – now further down the tubing and away from the patient's face – maintains the integrity and trusted drying performance of our long duration sampling lines.

Redesigned packaging with instructions for proper sampling line placement enhances ease of use. And identifying the right line for your patient has never been easier thanks to a more intuitive product naming structure and order code updates.



| Terminology                |  |
|----------------------------|--|
| <b>Category:</b>           | MV (Microstream™ Advance filter line)<br>ML (Microstream™ Luer sampling line)                            |
| <b>Size:</b>               | A (Adult - includes Adult-Pediatric and Adult-Intermediate)<br>P (Pediatric only)<br>I (Infant/Neonatal) |
| <b>Sampling line type:</b> | I (Intubated)<br>B (Guardian Bite Block)<br>N (Nasal)  |
| <b>Oxygen:</b>             | O (with oxygen)  |
| <b>Humidity:</b>           | HH (High Humidity)<br>H (Humidity)   |
| <b>Length:</b>             | L (Long)<br>XL (Extra long)  |
| <b>Quantity:</b>           | 100u indicates box of 100  |

# Microstream™ capnography sampling lines

## Sampling line portfolio

- **Microstream™ Advance filter lines** for use with Microstream™ capnography monitors and multiparameter monitors equipped with Microstream™ technology
  - Orange connectors designate short-term use
  - Yellow connectors designate use for extended duration
- **Microstream™ Luer sampling line (blue connector)** for use with most types of sidestream monitors with a standard luer input connector

## Connectors



**Orange connector**  
Short-term use  
Microstream™ Advance filter line: Quick-seal connection with a single twist, for a tight seal to the monitor



**Yellow connector**  
Extended duration  
Microstream™ Advance filter line: Quick-seal connection with a single twist, for a tight seal to the monitor



**Blue connector**  
Microstream™ Luer™ sampling line



## Integrated oxygen connectors



**Male O<sub>2</sub> connector**



**Female O<sub>2</sub> connector**





# Microstream™ Advance filter lines

## Non-intubated patient, short-term use: procedure/emergency

### PRODUCT AND FEATURES

### ORDERING INFORMATION



#### ADULT

#### Microstream™ Advance oral/nasal filter line

- Samples from both the mouth and the nose
- Integrated O<sub>2</sub> tubing for supplemental oxygen delivery

| PART NUMBER | CONFIGURATION                          | UNITS PER BOX | LENGTH                  |
|-------------|--|---------------|-------------------------|
| MVA         | O <sub>2</sub> male connector          | 25            | Standard: 6.5 ft/200 cm |
| MVA100U     | O <sub>2</sub> male connector          | 100           | Standard: 6.5 ft/200 cm |
| MVAL        | O <sub>2</sub> male connector          | 25            | Long: 13 ft/400 cm      |
| MVAL100U    | O <sub>2</sub> male connector          | 100           | Long: 13 ft/400 cm      |
| MVAO        | O <sub>2</sub> tubing female connector | 25            | Standard: 6.5 ft/200 cm |
| MVAO100U    | O <sub>2</sub> tubing female connector | 100           | Standard: 6.5 ft/200 cm |
| MVAOL       | O <sub>2</sub> tubing female connector | 25            | Long: 13 ft/400 cm      |
| MVAOL100U   | O <sub>2</sub> tubing female connector | 100           | Long: 13 ft/400 cm      |



#### PEDIATRIC

#### Microstream™ Advance oral/nasal filter line

- Samples from both the mouth and the nose
- Available with or without O<sub>2</sub> delivery

| PART NUMBER | CONFIGURATION                          | UNITS PER BOX | LENGTH                  |
|-------------|--|---------------|-------------------------|
| MVP         | No O <sub>2</sub> delivery             | 25            | Standard: 6.5 ft/200 cm |
| MVPO        | O <sub>2</sub> tubing female connector | 25            | Standard: 6.5 ft/200 cm |
| MVPOL       | O <sub>2</sub> tubing female connector | 25            | Long: 13 ft/400 cm      |



#### ADULT AND PEDIATRIC

#### Microstream™ Advance nasal filter line

- Nasal sampling only
- Integrated O<sub>2</sub> tubing for supplemental oxygen delivery

| PART NUMBER | CONFIGURATION                          | UNITS PER BOX | PATIENT TYPE | LENGTH                  |
|-------------|--|---------------|--------------|-------------------------|
| MVANO       | O <sub>2</sub> tubing female connector | 25            | Adult        | Standard: 6.5 ft/200 cm |
| MVANO100U   | O <sub>2</sub> tubing female connector | 100           | Adult        | Standard: 6.5 ft/200 cm |
| MVANOL      | O <sub>2</sub> tubing female connector | 25            | Adult        | Long: 13 ft/400 cm      |
| MVANOL100U  | O <sub>2</sub> tubing female connector | 100           | Adult        | Long: 13 ft/400 cm      |
| MVPNO       | O <sub>2</sub> tubing female connector | 25            | Pediatric    | Standard: 6.5 ft/200 cm |



#### ADULT, PEDIATRIC, AND NEONATAL

#### Microstream™ Advance nasal filter line

- Nasal sampling only
- No O<sub>2</sub> delivery

| PART NUMBER | UNITS PER BOX | PATIENT TYPE   | LENGTH                  |
|-------------|---------------|----------------|-------------------------|
| MVAN        | 25            | Adult          | Standard: 6.5 ft/200 cm |
| MVIN        | 25            | Infant/neonate | Standard: 6.5 ft/200 cm |
| MVPN        | 25            | Pediatric      | Standard: 6.5 ft/200 cm |



#### BITE BLOCK AND FILTER LINE

#### Microstream™ Advance bite block filter line

- Samples from both the mouth and the nose
- Integrated O<sub>2</sub> tubing for supplemental oxygen delivery
- O<sub>2</sub> delivery system can administer oxygen flow up to 10 L/min
- Accommodates up to 60 Fr endoscope

| PART NUMBER | CONFIGURATION                          | UNITS PER BOX | LENGTH                  |
|-------------|--|---------------|-------------------------|
| MVAB        | O <sub>2</sub> male connector          | 25            | Standard: 6.5 ft/200 cm |
| MVABO       | O <sub>2</sub> tubing female connector | 25            | Standard: 6.5 ft/200 cm |
| MVABOL      | O <sub>2</sub> tubing female connector | 25            | Long: 13 ft/400 cm      |
| MVAB100U    | O <sub>2</sub> male connector          | 100           | Standard: 6.5 ft/200 cm |
| MVABO100U   | O <sub>2</sub> tubing female connector | 100           | Standard: 6.5 ft/200 cm |
| MVABOL100U  | O <sub>2</sub> tubing female connector | 100           | Long: 13 ft/400 cm      |

# Microstream™ Advance filter lines

## Intubated patient, short-term use: procedure/emergency

### PRODUCT AND FEATURES

### ORDERING INFORMATION



#### ADULT AND PEDIATRIC Microstream™ Advance intubated filter line

Intended for use with ETT size > 4.5mm

| PART NUMBER | UNITS PER BOX | LENGTH                  |
|-------------|---------------|-------------------------|
| MVAI        | 25            | Standard: 6.5 ft/200 cm |
| MVAI100U    | 100           | Standard: 6.5 ft/200 cm |
| MVAIL       | 25            | Long: 13 ft/400 cm      |

## Accessories

### PRODUCT AND FEATURES

### ORDERING INFORMATION



#### FOR USE WITH PATIENTS DURING MRI Microstream™ Advance filter line

- Designed for use during MRI when the monitor is placed outside the suite and an extended filter line is required

| PART NUMBER | CONFIGURATION              | UNITS PER BOX | PATIENT TYPE | LENGTH       |
|-------------|----------------------------|---------------|--------------|--------------|
| MVXL        | No O <sub>2</sub> delivery | 25            | All          | 30 ft/900 cm |

## Non-intubated patient, extended duration: intensive care/long-term care

### PRODUCT AND FEATURES

### ORDERING INFORMATION



#### ADULT Microstream™ Advance oral/nasal filter line

- Samples from both the mouth and the nose
- Drier moisture reduction technology
- Integrated O<sub>2</sub> tubing for supplemental oxygen delivery

| PART NUMBER | CONFIGURATION                          | UNITS PER BOX | LENGTH                  |
|-------------|--|---------------|-------------------------|
| MVAOH       | O <sub>2</sub> tubing female connector | 25            | Standard: 6.5 ft/200 cm |
| MVAOH100U   | O <sub>2</sub> tubing female connector | 100           | Standard: 6.5 ft/200 cm |
| MVAOHL      | O <sub>2</sub> tubing female connector | 25            | Long: 13 ft/400 cm      |



#### PEDIATRIC Microstream™ Advance oral/nasal filter line

- Samples from both the mouth and the nose
- Drier moisture reduction technology
- Integrated O<sub>2</sub> tubing for supplemental oxygen delivery

| PART NUMBER | CONFIGURATION                          | UNITS PER BOX | LENGTH                  |
|-------------|--|---------------|-------------------------|
| MVPOH       | O <sub>2</sub> tubing female connector | 25            | Standard: 6.5 ft/200 cm |
| MVPOHL      | O <sub>2</sub> tubing female connector | 25            | Long: 13 ft/400 cm      |



#### ADULT, PEDIATRIC, AND NEONATAL Microstream™ Advance nasal filter line

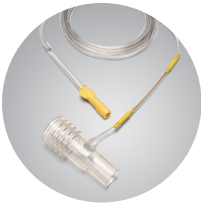
- Nasal sampling only
- Drier moisture reduction technology
- Integrated O<sub>2</sub> tubing for supplemental oxygen delivery available

|           | PART NUMBER | CONFIGURATION                          | UNITS PER BOX | LENGTH                  |
|-----------|-------------|--|---------------|-------------------------|
| ADULT     | MVANH       | No O <sub>2</sub> delivery             | 25            | Standard: 6.5 ft/200 cm |
|           | MVANOH      | O <sub>2</sub> tubing female connector | 25            | Standard: 6.5 ft/200 cm |
| PEDIATRIC | MVPNOH      | O <sub>2</sub> tubing female connector | 25            | Standard: 6.5 ft/200 cm |
| NEONATAL  | MVINH       | No O <sub>2</sub> delivery             | 25            | Standard: 6.5 ft/200 cm |
|           | MVINOH      | O <sub>2</sub> tubing female connector | 25            | Medium: 9.8 ft/300 cm   |
|           | MVINHL      | No O <sub>2</sub> delivery             | 25            | Long: 13 ft/400 cm      |

# Microstream™ Advance filter lines

## Intubated patient, extended duration

PRODUCT AND FEATURES ORDERING INFORMATION



### ADULT AND PEDIATRIC Microstream™ Advance intubated filter line

- Intended for use with ETT > 4.5mm
- Drier moisture reduction technology

| PART NUMBER | UNITS PER BOX | LENGTH                  |
|-------------|---------------|-------------------------|
| MVAIH       | 25            | Standard: 6.5 ft/200 cm |
| MVAIH100U   | 100           | Standard: 6.5 ft/200 cm |
| MVAIHL      | 25            | Long: 13 ft/400 cm      |



### NEONATAL Microstream™ Advance intubated filter line

- Intended for use with ETT ≤ 4.5mm
- Drier moisture reduction technology

| PART NUMBER | UNITS PER BOX | LENGTH                  |
|-------------|---------------|-------------------------|
| MVIIH       | 25            | Standard: 6.5 ft/200 cm |
| MVIIHL      | 25            | Long: 13 ft/400 cm      |



### ADULT AND PEDIATRIC Microstream™ Advance intubated filter line

- Intended for use with ETT > 4.5mm
- Extended drier moisture reduction technology for high ambient humidity

| PART NUMBER | UNITS PER BOX | LENGTH                  |
|-------------|---------------|-------------------------|
| MVAIHH      | 25            | Standard: 6.5 ft/200 cm |



### NEONATAL Microstream™ Advance intubated filter line

- Intended for use with ETT ≤ to 4.5mm
- Longer drier moisture reduction technology for high ambient humidity

| PART NUMBER | UNITS PER BOX | LENGTH                  |
|-------------|---------------|-------------------------|
| MVIIHH      | 25            | Standard: 6.5 ft/200 cm |

# Microstream™ Luer sampling lines

## Nonintubated patient, short-term use: procedure/emergency/OR

### PRODUCT AND FEATURES

### ORDERING INFORMATION



#### ADULT

#### Microstream™ Luer sampling line

- Samples from both the mouth and the nose
- Integrated O<sub>2</sub> tubing for supplemental oxygen delivery

| PART NUMBER | CONFIGURATION                          | UNITS PER BOX | LENGTH                  |
|-------------|--|---------------|-------------------------|
| MLA         | O <sub>2</sub> tubing male connector   | 25            | Standard: 6.5 ft/200 cm |
| MLAO        | O <sub>2</sub> tubing female connector | 25            | Standard: 6.5 ft/200 cm |
| MLA100U     | O <sub>2</sub> tubing male connector   | 100           | Standard: 6.5 ft/200 cm |
| MLAO100U    | O <sub>2</sub> tubing female connector | 100           | Standard: 6.5 ft/200 cm |



#### PEDIATRIC

#### Microstream™ Luer sampling line

- Samples from both the mouth and the nose
- Integrated O<sub>2</sub> tubing for supplemental oxygen delivery

| PART NUMBER | CONFIGURATION                          | UNITS PER BOX | LENGTH                  |
|-------------|--|---------------|-------------------------|
| MLPO        | O <sub>2</sub> tubing female connector | 25            | Standard: 6.5 ft/200 cm |



#### ADULT AND PEDIATRIC

#### Microstream™ Luer nasal sampling line

- Nasal sampling only
- Integrated O<sub>2</sub> tubing for supplemental oxygen delivery

| PART NUMBER | CONFIGURATION                          | UNITS PER BOX | PATIENT TYPE | LENGTH                  |
|-------------|--|---------------|--------------|-------------------------|
| MLANO       | O <sub>2</sub> tubing female connector | 25            | Adult        | Standard: 6.5 ft/200 cm |
| MLPNO       | O <sub>2</sub> tubing female connector | 25            | Pediatric    | Standard: 6.5 ft/200 cm |



#### BITE BLOCK AND SAMPLING LINE

#### Microstream™ Luer Bite Block sampling line

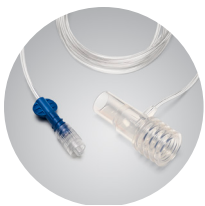
- Samples from both the mouth and the nose
- Integrated O<sub>2</sub> tubing for supplemental oxygen delivery
- O<sub>2</sub> delivery system can administer oxygen flow up to 10 L/min
- Accommodates up to 60 Fr endoscope

| PART NUMBER | CONFIGURATION                          | UNITS PER BOX | LENGTH                 |
|-------------|--|---------------|------------------------|
| MLABO       | O <sub>2</sub> tubing female connector | 25            | Standard: 6.5 ft/200cm |
| MLABOL      | O <sub>2</sub> tubing female connector | 25            | Long: 13 ft/400 cm     |

## Intubated patient, short-term use: procedure/emergency/OR

### PRODUCT AND FEATURES

### ORDERING INFORMATION



#### ADULT

#### Microstream™ Luer intubated sampling line

Intended for use with ETT > 4.5mm

| PART NUMBER | UNITS PER BOX | LENGTH                  |
|-------------|---------------|-------------------------|
| MLAI        | 25            | Standard: 6.5 ft/200 cm |

# Accessories

## PRODUCT AND FEATURES

## ORDERING INFORMATION



Male/male luer adapter, airway adapter, CO<sub>2</sub> sampling line

| PART NUMBER | CONFIGURATION  | UNITS PER BOX |
|-------------|--|---------------|
| 010555      | Male/male luer adapter   | 25            |
| 010989      | Airway adapter   | 25            |
| ML          | CO <sub>2</sub> sampling line (short-term: procedural/emergency) | 25            |

## Legacy SKU and new SKU reference chart



### Short-term sampling lines

| LEGACY SKU | NEW SKU           | DESCRIPTION  |
|------------|-------------------|--|
| 009818     | <b>MVA</b>        | oral/nasal, adult  |
| 010209     | <b>MVA100U</b>    | oral/nasal, adult, 100ct   |
| 010340     | <b>MVAL</b>       | oral/nasal, adult, long  |
| 010339     | <b>MVAL100U</b>   | oral/nasal, adult, long, 100 ct  |
| 009822     | <b>MVAO</b>       | oral/nasal, adult, w/O <sub>2</sub> tubing   |
| 010210     | <b>MVAO100U</b>   | oral/nasal, adult w/O <sub>2</sub> tubing, 100 ct  |
| 009826     | <b>MVAOL</b>      | oral/nasal, adult w/O <sub>2</sub> tubing, long  |
| 010341     | <b>MVAOL100U</b>  | oral/nasal, adult w/O <sub>2</sub> tubing, long, 100 ct  |
| 007266     | <b>MVP</b>        | oral/nasal, pediatric  |
| 007269     | <b>MVPO</b>       | oral/nasal, pediatric w/O <sub>2</sub> tubing  |
| 007743     | <b>MVPOL</b>      | oral/nasal, pediatric w/O <sub>2</sub> tubing, long  |
| 006912     | <b>MVANO</b>      | nasal, adult w/O <sub>2</sub> tubing   |
| 010304     | <b>MVANO100U</b>  | nasal, adult w/O <sub>2</sub> tubing, 100 ct   |
| 007739     | <b>MVANOL</b>     | nasal, adult w/O <sub>2</sub> tubing, long   |
| 010344     | <b>MVANOL100U</b> | nasal, adult w/O <sub>2</sub> tubing, long, 100 ct   |
| 006913     | <b>MVPNO</b>      | nasal, pediatric w/O <sub>2</sub> tubing   |
| XS04476    | <b>MVIN</b>       | nasal NIV line, neonatal   |
| 008174     | <b>MVAN</b>       | nasal NIV line, adult  |
| 008175     | <b>MVPN</b>       | nasal NIV line, pediatric  |
| 012528     | <b>MVAB</b>       | adult-intermediate with bite block and w/O <sub>2</sub> tubing- male connector                 |
| 012537     | <b>MVAB100U</b>   | adult-intermediate with bite block and w/O <sub>2</sub> tubing- male connector, 100 ct         |
| 012529     | <b>MVABO</b>      | adult-intermediate with bite block and w/O <sub>2</sub> tubing- female connector               |
| 012538     | <b>MVABO100U</b>  | adult-intermediate with bite block and w/O <sub>2</sub> tubing- female connector, 100 ct       |
| 012530     | <b>MVABOL</b>     | adult-intermediate w/O <sub>2</sub> tubing- female connector, long                             |
| 012539     | <b>MVABOL100U</b> | adult-intermediate with bite block and w/O <sub>2</sub> tubing- female connector, long, 100 ct |
| 006325     | <b>MVXL</b>       | MRI sampling line, XL (9m)   |
| XS04620    | <b>MVAI</b>       | Intubated, adult-pediatric   |
| 010579     | <b>MVAI100U</b>   | Intubated, adult-pediatric, 100 ct   |
| 007768     | <b>MVAIL</b>      | Intubated, adult-pediatric, long   |



# Legacy SKU and new SKU reference chart



| Long-term sampling lines |                  |   |
|--------------------------|------------------|---|
| LEGACY SKU               | NEW SKU          | DESCRIPTION   |
| 010433                   | <b>MVAOH</b>     | oral/nasal, adult w/O <sub>2</sub> tubing           |
| 010625                   | <b>MVAOH100U</b> | oral/nasal, adult w/O <sub>2</sub> tubing, 100ct    |
| 012463                   | <b>MVAOHL</b>    | oral/nasal, adult w/O <sub>2</sub> tubing, long     |
| 010582                   | <b>MVPOH</b>     | oral/nasal, pediatric w/O <sub>2</sub> tubing       |
| 012464                   | <b>MVPOHL</b>    | oral/nasal, pediatric w/O <sub>2</sub> tubing, long |
| <hr/>                    |                  |   |
| 008177                   | <b>MVANH</b>     | nasal, adult  |
| 008179                   | <b>MVINH</b>     | nasal, neonatal-infant                              |
| 012465                   | <b>MVINHL</b>    | nasal, neonatal-infant, long                        |
| 008180                   | <b>MVANOHL</b>   | nasal, adult w/O <sub>2</sub> tubing                |
| 008181                   | <b>MVPNOH</b>    | nasal, pediatric w/O <sub>2</sub> tubing            |
| 012111                   | <b>MVINOHL</b>   | nasal, neonatal-infant w/O <sub>2</sub> tubing, 3m  |
| XS04624                  | <b>MVAIH</b>     | intubated, adult-pediatric                          |
| 010580                   | <b>MVAIH100U</b> | intubated, adult-pediatric, 100 ct                  |
| 007737                   | <b>MVAIHL</b>    | intubated, adult-pediatric, long                    |
| 006324                   | <b>MVIIH</b>     | intubated, neonatal-infant                          |
| 007738                   | <b>MVIIHL</b>    | intubated, neonatal-infant, long                    |
| 010787                   | <b>MVAIHH</b>    | intubated, adult-pediatric, high humidity           |
| 010807                   | <b>MVIIHH</b>    | intubated, neonatal-infant, high humidity           |



| Luer sampling lines |                 |  |
|---------------------|-----------------|--|
| LEGACY SKU          | NEW SKU         | DESCRIPTION  |
| 010172              | <b>MLA</b>      | oral-nasal, adult, w/O <sub>2</sub> tubing- male connector           |
| 010177              | <b>MLAO</b>     | oral-nasal, adult, w/O <sub>2</sub> tubing- female connector         |
| 010212              | <b>MLA100U</b>  | oral-nasal, adult, w/O <sub>2</sub> tubing- male connector, 100 ct   |
| 010213              | <b>MLAO100U</b> | oral-nasal, adult, w/O <sub>2</sub> tubing- female connector, 100 ct |
| 007606              | <b>MLPO</b>     | oral-nasal, pediatric, w/O <sub>2</sub> tubing                       |
| 007609              | <b>MLANO</b>    | nasal, adult w/O <sub>2</sub> tubing                                 |
| 007610              | <b>MLPNO</b>    | nasal, pediatric w/O <sub>2</sub> tubing                             |
| 012531              | <b>MLABO</b>    | adult-intermediate with bite block and w/O <sub>2</sub> tubing       |
| 012532              | <b>MLABOL</b>   | adult-intermediate with bite block and w/O <sub>2</sub>              |
| <hr/>               |                 |  |
| 012495              | <b>MLAI</b>     | Intubated, adult-pediatric   |
| <hr/>               |                 |  |
| 010991              | <b>ML</b>       | CO <sub>2</sub> sampling line, 2m                                    |
| 010989              | <b>010989</b>   | airway adapter   |
| 010555              | <b>010555</b>   | male-to-male adaptor   |

All Microstream™ Advance filter lines and Microstream™ Luer sampling lines are single patient use only.

All Microstream™ Advance filter lines and Microstream™ Luer sampling lines are DEHP-free.

Adult/pediatric products are intended for use with ETT tube size > 4.5 mm. The adapter dead space is < 6.6 cc and the weight is 7.0 g.

Infant/neonate products are intended for use with ETT tube size ≤ 4.5 mm. The adapter dead space is < 0.5 cc and the weight is 3.8 g.

CO<sub>2</sub> sampling lines including moisture reduction technology for high humidity environments (noted by H or HH in the part number) are not MRI compatible. Use of non-H sampling lines is advised.

All specifications are subject to change without notice.

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