QUICK
REFERENCE
GUIDE

THE RIGHT SAMPLING LINE FOR EVERY PATIENT

Microstream™ Advance Filter Lines
Microstream™ Luer Sampling Lines



FOR USE IN U.S. ONLY

Medtronic
Further, Together

Introducing the new Microstream™ Advance filter line and Microstream™ Luer sampling line portfolio

We continuously strive to enhance our products and technologies for you and your patients. And we've done it again. Medtronic is pleased to introduce the Microstream™ Advance filter lines and Microstream™ Luer sampling lines portfolio.

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. That's why we redesigned our capnography sampling lines — with the patient in mind.

The new sampling lines still have the reliability and accuracy you've come to expect from Microstream™ technology — but with an improved neutral scent and soft, kink-resistant tubing.

Additionally, the drying element on long duration sampling lines has been moved further down the tubing and away from the patient's face. The new placement maintains the integrity and trusted drying performance of our long duration sampling lines.

Product packaging enhancements to the Microstream™ capnography portfolio of sampling lines include:

- Redesigned packaging for enhanced usability and instructions for proper sampling line placement
- New product naming structure and order codes updated to be more intuitive for easily identifying the right sampling line for the right patient

TERMINOLOGY

CATEGORY:	MV (Microstream™ Advance Filter Line) ML (Microstream™ Luer Sampling Line)
SIZE:	A (Adult - includes Adult-Pediatric and Adult-Intermediate) P (Pediatric only) I (Infant/Neonatal)
SAMPLING LINE TYPE:	I (Intubated) B (Guardian Bite Block) N (Nasal)
OXYGEN:	O (with oxygen)
HUMIDITY:	HH (High Humidity) H (Humidity)
LENGTH:	L (Long) XL (Extra long)
QUANTITY:	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

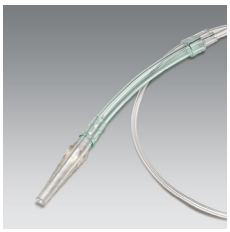


Yellow Connector
Extended duration Microstream™ Advance filter line: Quick-seal connection with a single twist, for a tight seal to the monitor



Blue Connector
Microstream™ Luer™ sampling line

INTEGRATED OXYGEN CONNECTORS



Male O_2 Connector



Female O_2 Connector





MICROSTREAM™ ADVANCE FILTER LINES

Nonintubated 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_2 tubing for supplemental oxygen delivery

PART NUMBER	CONFIGURATION	UNITS PER BOX	LENGTH
MVA	O_2 male connector	25	Standard: 6.5 ft/200 cm
MVA100U	O_2 male connector	100	Standard: 6.5 ft/200 cm
MVAL	O_2 male connector	25	Long: 13 ft/400 cm
MVAL100U	O_2 male connector	100	Long: 13 ft/400 cm
MVAO	O_2 tubing female connector	25	Standard: 6.5 ft/200 cm
MVAO100U	O_2 tubing female connector	100	Standard: 6.5 ft/200 cm
MVAOL	O_2 tubing female connector	25	Long: 13 ft/400 cm
MVAOL100U	O_2 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_2 delivery

PART NUMBER	CONFIGURATION	UNITS PER BOX	LENGTH
MVP	No O_2 delivery	25	Standard: 6.5 ft/200 cm
MVPO	O_2 tubing female connector	25	Standard: 6.5 ft/200 cm
MVPOL	O_2 tubing female connector	25	Long: 13 ft/400 cm



ADULT AND PEDIATRIC

Microstream™ Advance nasal filter line

- Nasal sampling only
- Integrated O_2 tubing for supplemental oxygen delivery

PART NUMBER	CONFIGURATION	UNITS PER BOX	PATIENT TYPE	LENGTH
MVANO	O_2 tubing female connector	25	Adult	Standard: 6.5 ft/200 cm
MVANO100U	O_2 tubing female connector	100	Adult	Standard: 6.5 ft/200 cm
MVANOL	O_2 tubing female connector	25	Adult	Long: 13 ft/400 cm
MVANOL100U	O_2 tubing female connector	100	Adult	Long: 13 ft/400 cm
MVPNO	O_2 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_2 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_2 tubing for supplemental oxygen delivery
- O_2 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_2 male connector	25	Standard: 6.5 ft/200 cm
MVABO	O_2 tubing female connector	25	Standard: 6.5 ft/200 cm
MVABOL	O_2 tubing female connector	25	Long: 13 ft/400 cm
MVAB100U	O_2 male connector	100	Standard: 6.5 ft/200 cm
MVABO100U	O_2 tubing female connector	100	Standard: 6.5 ft/200 cm
MVABOL100U	O_2 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_2 delivery	25	All	30 ft/900 cm

Nonintubated 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_2 tubing for supplemental oxygen delivery

PART NUMBER	CONFIGURATION	UNITS PER BOX	LENGTH
MVAOH	O_2 tubing female connector	25	Standard: 6.5 ft/200 cm
MVAOH100U	O_2 tubing female connector	100	Standard: 6.5 ft/200 cm
MVAOHL	O_2 tubing female connector	25	Long: 13 ft/400 cm



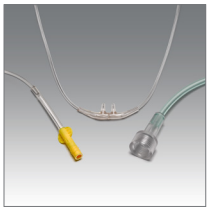
PEDIATRIC

Microstream™ Advance oral/nasal filter line

- Samples from both the mouth and the nose
- Drier moisture reduction technology
- Integrated O_2 tubing for supplemental oxygen delivery

PART NUMBER	CONFIGURATION	UNITS PER BOX	LENGTH
MVPOH	O_2 tubing female connector	25	Standard: 6.5 ft/200 cm
MVPOHL	O_2 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_2 tubing for supplemental oxygen delivery available

	PART NUMBER	CONFIGURATION	UNITS PER BOX	LENGTH
ADULT	MVANH	No O_2 delivery	25	Standard: 6.5 ft/200 cm
	MVANOH	O_2 tubing female connector	25	Standard: 6.5 ft/200 cm
PEDIATRIC	MVPNOH	O_2 tubing female connector	25	Standard: 6.5 ft/200 cm
NEONATAL	MVINH	No O_2 delivery	25	Standard: 6.5 ft/200 cm
	MVINOH	O_2 tubing female connector	25	Medium: 9.8 ft/300 cm
	MVINHL	No O_2 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_2 tubing for supplemental oxygen delivery

PART NUMBER	CONFIGURATION	UNITS PER BOX	LENGTH
MLA	O_2 tubing male connector	25	Standard: 6.5 ft/200 cm
MLAO	O_2 tubing female connector	25	Standard: 6.5 ft/200 cm
MLA100U	O_2 tubing male connector	100	Standard: 6.5 ft/200 cm
MLAO100U	O_2 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_2 tubing for supplemental oxygen delivery

PART NUMBER	CONFIGURATION	UNITS PER BOX	LENGTH
MLPO	O_2 tubing female connector	25	Standard: 6.5 ft/200 cm



ADULT AND PEDIATRIC

Microstream™ Luer nasal sampling line

- Nasal sampling only
- Integrated O_2 tubing for supplemental oxygen delivery

PART NUMBER	CONFIGURATION	UNITS PER BOX	PATIENT TYPE	LENGTH
MLANO	O_2 tubing female connector	25	Adult	Standard: 6.5 ft/200 cm
MLPNO	O_2 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_2 tubing for supplemental oxygen delivery
- O_2 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_2 tubing female connector	25	Standard: 6.5 ft/200cm
MLABOL	O_2 tubing female connector	25	Long: 13 ft/400 cm

MICROSTREAM™ LUER SAMPLING LINES

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_2 sampling line





PART NUMBER	CONFIGURATION	UNITS PER BOX
010555	Male/male luer adapter	25
010989	Airway adapter	25
ML	CO_2 sampling line (short-term: procedural/emergency)	25

LEGACY SKU AND NEW SKU REFERENCE CHART



Short-term sampling lines

LEGACY SKU	NEW SKU	DESCRIPTION
009818	**MVA**	oral/nasal, adult
010209	**MVA100U**	oral/nasal, adult, 100ct
010340	**MVAL**	oral/nasal, adult, long
010339	**MVAL100U**	oral/nasal, adult, long, 100 ct
009822	**MVAO**	oral/nasal, adult, w/O_2 tubing
010210	**MVAO100U**	oral/nasal, adult w/O_2 tubing, 100 ct
009826	**MVAOL**	oral/nasal, adult w/O_2 tubing, long
010341	**MVAOL100U**	oral/nasal, adult w/O_2 tubing, long, 100 ct
007266	**MVP**	oral/nasal, pediatric
007269	**MVPO**	oral/nasal, pediatric w/O_2 tubing
007743	**MVPOL**	oral/nasal, pediatric w/O_2 tubing, long
006912	**MVANO**	nasal, adult w/O_2 tubing
010304	**MVANO100U**	nasal, adult w/O_2 tubing, 100 ct
007739	**MVANOL**	nasal, adult w/O_2 tubing, long
010344	**MVANOL100U**	nasal, adult w/O_2 tubing, long, 100 ct
006913	**MVPNO**	nasal, pediatric w/O_2 tubing
XS04476	**MVIN**	nasal NIV line, neonatal
008174	**MVAN**	nasal NIV line, adult
008175	**MVPN**	nasal NIV line, pediatric
012528	**MVAB**	adult-intermediate with bite block and w/O_2 tubing- male connector
012537	**MVAB100U**	adult-intermediate with bite block and w/O_2 tubing- male connector, 100 ct
012529	**MVABO**	adult-intermediate with bite block and w/O_2 tubing- female connector
012538	**MVABO100U**	adult-intermediate with bite block and w/O_2 tubing- female connector, 100 ct
012530	**MVABOL**	adult-intermediate w/O_2 tubing- female connector, long
012539	**MVABOL100U**	adult-intermediate with bite block and w/O_2 tubing- female connector, long, 100 ct
006325	**MVXL**	MRI sampling line, XL (9m)
XS04620	**MVAI**	Intubated, adult-pediatric
010579	**MVAI100U**	Intubated, adult-pediatric, 100 ct
007768	**MVAIL**	Intubated, adult-pediatric, long

LEGACY SKU AND NEW SKU REFERENCE CHART



Long-term sampling lines

LEGACY SKU	NEW SKU	DESCRIPTION
010433	MVAOH	oral/nasal, adult w/O_2 tubing
010625	MVAOH100U	oral/nasal, adult w/O_2 tubing, 100ct
012463	MVAOHL	oral/nasal, adult w/O_2 tubing, long
010582	MVPOH	oral/nasal, pediatric w/O_2 tubing
012464	MVPOHL	oral/nasal, pediatric w/O_2 tubing, long
008177	MVANH	nasal, adult
008179	MVINH	nasal, neonatal-infant
012465	MVINHL	nasal, neonatal-infant, long
008180	MVANOH	nasal, adult w/O_2 tubing
008181	MVPNOH	nasal, pediatric w/O_2 tubing
012111	MVINOH	nasal, neonatal-infant w/O_2 tubing, 3m
XS04624	MVAIH	intubated, adult-pediatric
010580	MVAIH100U	intubated, adult-pediatric, 100 ct
007737	MVAIHL	intubated, adult-pediatric, long
006324	MVIIH	intubated, neonatal-infant
007738	MVIIHL	intubated, neonatal-infant, long
010787	MVAIHH	intubated, adult-pediatric, high humidity
010807	MVIIHH	intubated, neonatal-infant, high humidity

LEGACY SKU AND NEW SKU REFERENCE CHART



Luer sampling lines

LEGACY SKU	NEW SKU	DESCRIPTION
010172	**MLA**	oral-nasal, adult, w/O_2 tubing- male connector
010177	**MLAO**	oral-nasal, adult, w/O_2 tubing- female connector
010212	**MLA100U**	oral-nasal, adult, w/O_2 tubing- male connector, 100 ct
010213	**MLAO100U**	oral-nasal, adult, w/O_2 tubing- female connector, 100 ct
007606	**MLPO**	oral-nasal, pediatric, w/O_2 tubing
007609	**MLANO**	oral-nasal, adult w/O_2 tubing
007610	**MLPNO**	oral-nasal, pediatric w/O_2 tubing
012531	**MLABO**	adult-intermediate with bite block and w/O_2 tubing
012532	**MLABOL**	adult-intermediate with bite block and w/O_2
012495	**MLAI**	Intubated, adult-pediatric
010991	**ML**	CO_2 sampling line, 2m
010989	**010989**	airway adapter
010555	**010555**	male-to-male adaptor

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_2 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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6135 Gunbarrel Avenue
Boulder, CO 80301
800.635.5267

medtronic.com/covidien

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