



Because every breath matters

Microstream® CO₂ FilterLine® sampling lines

The sooner you know about changes in a patient's ventilation status, the more you can assess respiratory depression. That's why both the American Society of Anesthesiologists (ASA) and American Heart Association (AHA) recommend that waveform capnography be used to continually observe etCO₂ during resuscitation and sedation. Why capnography? Because it provides an early indication of respiratory compromise.¹

Philips Microstream etCO₂ FilterLine sampling lines and Microstream IPI software make it easy to use capnography to quickly assess and respond to adverse respiratory events. We deliver a broad range of quality FilterLine sampling lines for monitoring both intubated and non-intubated patients in the ICU and beyond. Philips Microstream FilterLine products are validated for all equipment using Microstream etCO₂ technology to provide the reliable etCO₂ readings you need to facilitate diagnosis, streamline workflow, and enhance patient care.

¹ Burton JH, Harrah JD, Germann CA, Dillon DC. Does end-tidal carbon dioxide monitoring detect respiratory events prior to current sedation monitoring practices? Acad Emerg Med. 2006 May;13(5):500-4. Epub 2006 Mar 28.

² Philips IntelliVue patient monitors as of Rev J.

Key advantages

- Choose from a wide range of sampling lines for pre-hospital care, critical care, the OR, sedation, and general care
- All Philips Microstream FilterLine products are designed to provide etCO₂ readings you can trust
- Reliably assess a patient's ventilatory status with Philips IntelliVue patient monitors² with built-in Microstream IPI algorithm

PHILIPS

“During moderate or deep sedation the adequacy of ventilation shall be evaluated by continual observation of qualitative clinical signs and monitoring for the presence of exhaled carbon dioxide unless precluded or invalidated by the nature of the patient, procedure, or equipment.”

American Society of Anesthesiologists (ASA)

A comprehensive approach to respiratory monitoring

The American Society of Anesthesiologists (ASA) and American Heart Association (AHA) have both documented the need to continually monitor the presence of exhaled carbon dioxide for patients under deep or moderate sedation. Now Philips makes it easy to comply with ASA and AHA recommendations.

Philips Microstream etCO₂ FilterLines are designed to provide fast, accurate etCO₂ readings of the patient’s breath, so you can identify respiratory distress early, monitor changes continuously, and intervene quickly to enhance patient care.

The high cost of respiratory failure

Postoperative respiratory failure is the third most common patient safety incidence in hospitals every year, affecting some 600,000 patients and costing \$1.5 billion. Respiratory failure numbers continue to rise, now occurring in 17.2 of every 1,000 patients.

Health Grades Report, 2011

Smart Capnography™ for improved patient care

All Philips IntelliVue monitors, as of software Rev J, incorporate the Integrated Pulmonary Index™. IPI is designed to improve patient care and streamline clinical workflow. This Smart Capnography algorithm may help you recognize changes in a patient’s ventilatory status early, potentially heading off respiratory depression before it happens.³

IPI combines the real-time measurement and interactions of four measurements – etCO₂, respiration rate, SpO₂, and pulse rate – to provide you with a comprehensive assessment of your patient’s ventilatory status. It gives you a definitive, numerical reading of changes in patient status that goes beyond the value of any single parameter. IPI:

- Provides an indication of change in the patient’s condition during interventions and therapy to improve care.
- Displays a single numeric for indication of a patient’s ventilatory status and trends.
- Is designed to help facilitate communication between collaborating clinicians.

³ Lightdale JR, Goldmann DA, Feldman HA, Newburg AR, DiNardo JA, Fox VL. Microstream capnography improves patient monitoring during moderate sedation: a randomized, controlled trial. Pediatrics. 2006 Jun;117(6):e1170-8. Epub 2006 May 15.

“Continuous quantitative waveform capnography is now recommended for intubated patients throughout the peri-arrest period.”

American Heart Association (AHA)

A single system for multiple care settings

Philips offers a wide range of Microstream FilterLine sampling lines for monitoring etCO₂ in both intubated and non-intubated patients in virtually every area of care. As a result, you can standardize on a single brand of sampling lines to simplify purchasing and help lower costs.

Focused on what matters most

At Philips, we’re committed to providing you with a comprehensive etCO₂ monitoring solution including hardware, software, consumable supplies, and clinical training. So you have the confidence and freedom to focus on what matters most: your patients.

For non-intubated patients



Smart CapnoLine O₂

Adult, oral/nasal
989803160281

Smart CapnoLine Guard O₂

Adult, oral/nasal
989803178041



Smart CapnoLine O₂

Pediatric, oral/nasal
M2520A

Smart CapnoLine H O₂

Adult, oral/nasal
989803177951

For intubated patients



FilterLine

Adult/pediatric
M1920A

FilterLine H set

Adult/pediatric
M1921A

Microstream CO₂ FilterLine products at a glance

For non-intubated patients:

Designed to collect accurate etCO₂ samples from your patient’s nose or mouth. The waveform is not affected by breathing patterns.

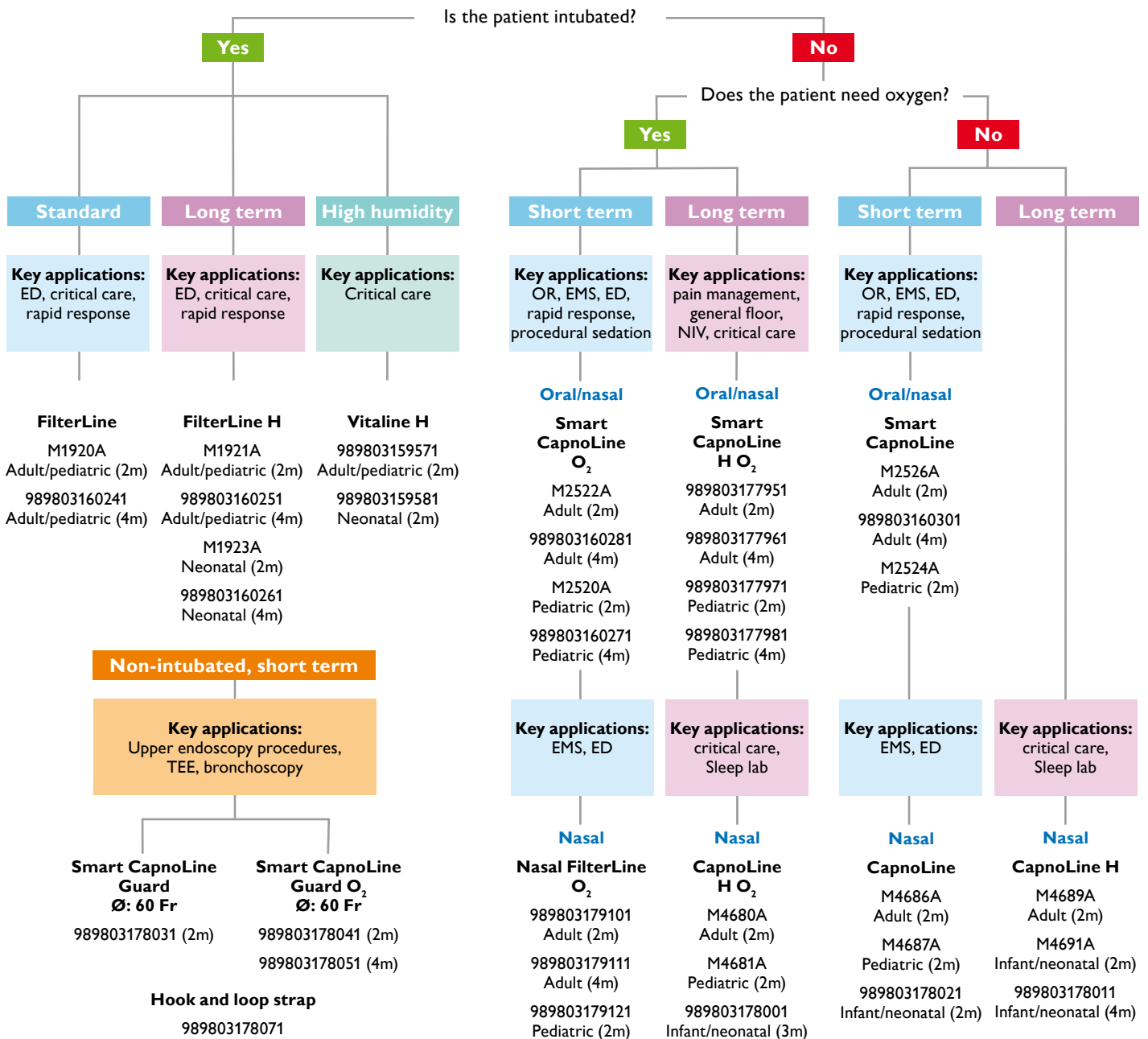
- Smart CapnoLine: for use in short duration monitoring like procedural sedation or emergency care. Available with O₂.
- Smart CapnoLine H O₂: for use in long duration monitoring like the general floor or medical/surgical unit, with CPAP and BiPAP devices.
- Smart CapnoLine Guard: for use in upper endoscopy procedures.

For intubated patients:

These Microstream FilterLine sets combine an etCO₂ sample line and an airway adapter in a one-piece design to simplify monitoring.

- Easy to use with neonate and adult patients.
- Patented multi-port sampling airway adapter reduces clogging.
- Special neonate/infant airway adapter with <0.5cc dead space.
- VitaLine™ H sets for high-humidity environments.
- Long versions (4m) offer flexibility.

Selection guide



Discover how Philips Medical Supplies can support you in your focus on what matters most.

Go to www.philips.com/mysupplies to find the supplies you need and to get in touch with your sales representative.

If you're in the US, order with ease from www.philips.com/healthcarestore.

Please visit www.philips.com/medicalsups or call your local representative



© 2014 Koninklijke Philips N.V.
All rights are reserved.

Philips Healthcare reserves the right to make changes in specifications and/or to discontinue any product at any time without notice or obligation and will not be liable for any consequences resulting from the use of this publication. Microstream and FilterLine are registered trademarks, and CapnoLine and Vitaline are trademarks of Oridion Medical, Ltd.

Philips Healthcare is part of Royal Philips

www.philips.com/healthcare
healthcare@philips.com

Printed in The Netherlands
4522 991 02991 * OCT 2014