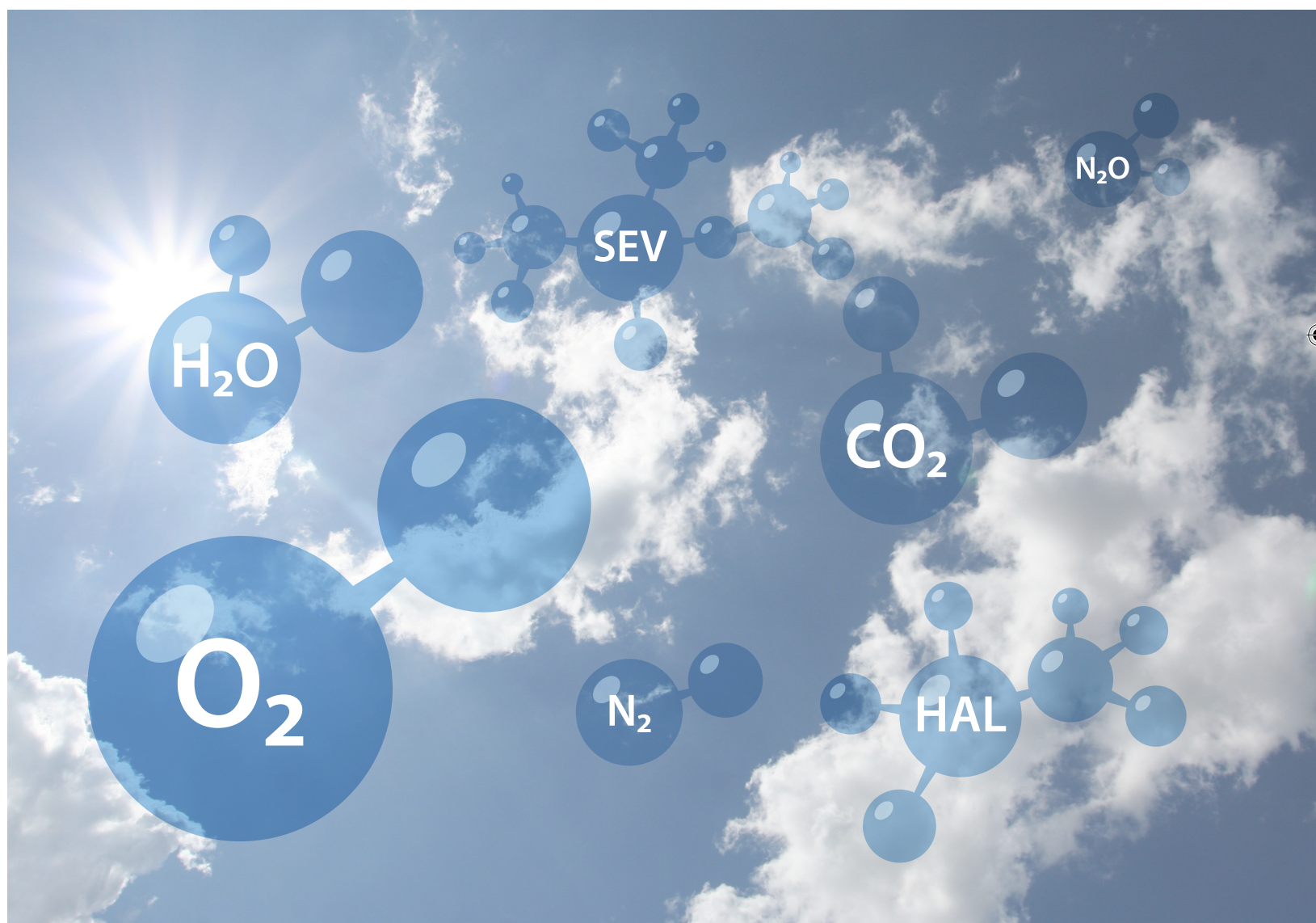


capnography

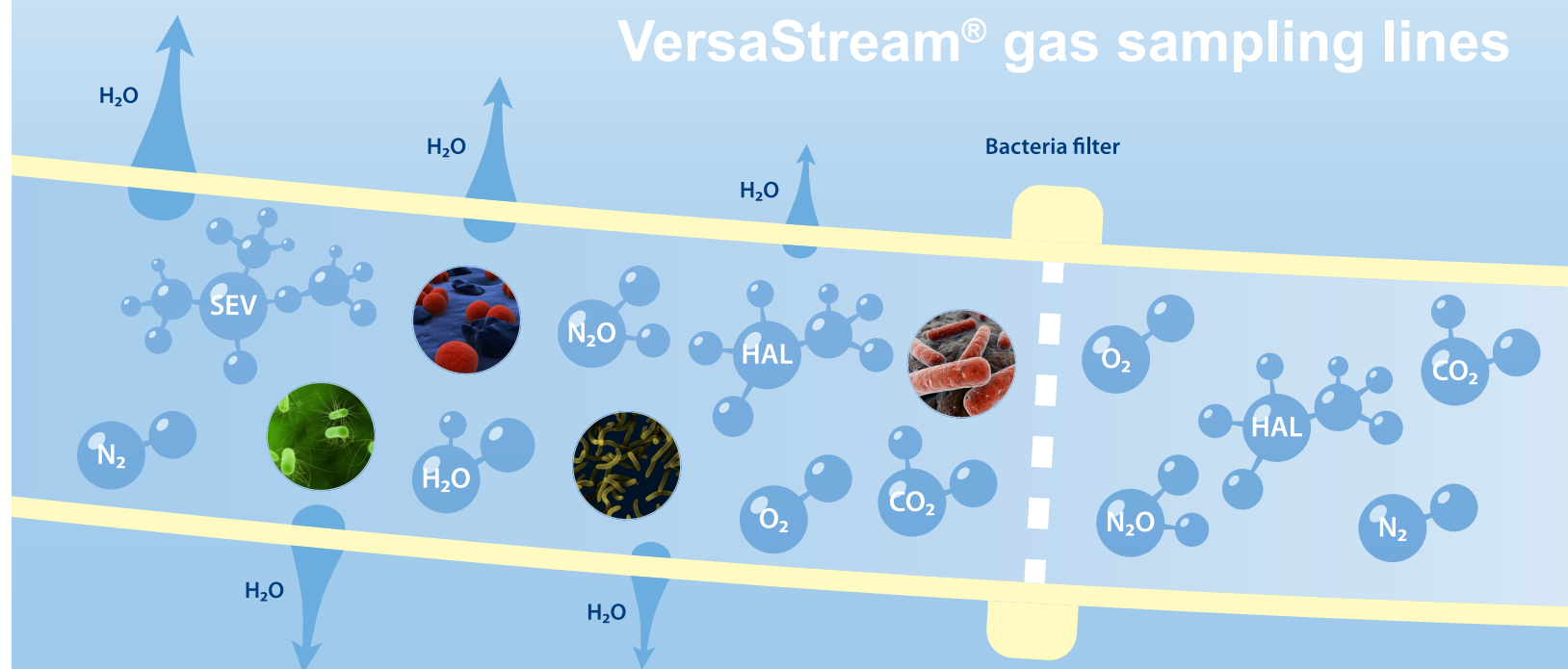
VersaStream<sup>®</sup>

# Luer Lock Gas Sampling Lines

Innovative Solutions for Sidestream Gas Monitoring for use with  
Capnographs and Multigas Monitors that incorporate a Luer Lock sampling port



# VersaStream® gas sampling lines



The VersaStream® gas sampling lines combine reliability, flexibility and cost efficiencies

## Why VersaStream® gas sampling lines?

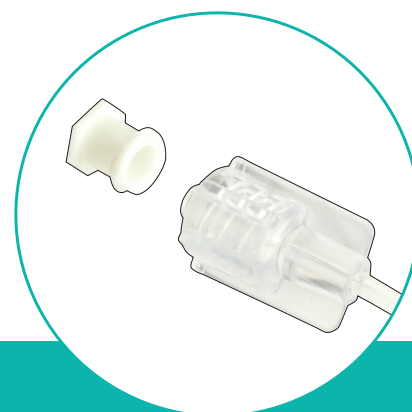
- Cost-effective alternative to Nafion® tubes.
- The gas-selective non-porous material facilitates fast and complete removal of condensation from the sampling line.
- The integrated bacterial filter prevents contamination.
- Regular water trap exchange (if present) is not required.
- Reliable measured gas values, due to negligible dead space volume of the filter - even in cases of high respiration rates.
- For use with many common types of gas exchange monitors, either low-flow or high-flow.
- Integrated bacteria filter and water removal reduces the number of patient circuit parts and speeds up patient monitoring preparation time.

## Innovative material technologies

Latest material technologies permit active and complete removal of moisture and water – even in cases of low temperatures and high humidity.

No need to use expensive Nafion® tubes, which are not resistant to bending.

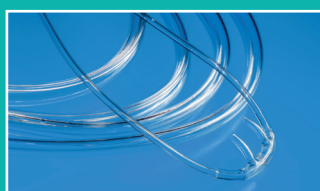
VersaStream® gas sampling lines are very flexible and are suitable for short-term and long-term applications.



## Available gas sampling lines



Nasal Sampling Line



Nasal Cannula



Nasal/Oral Cannula



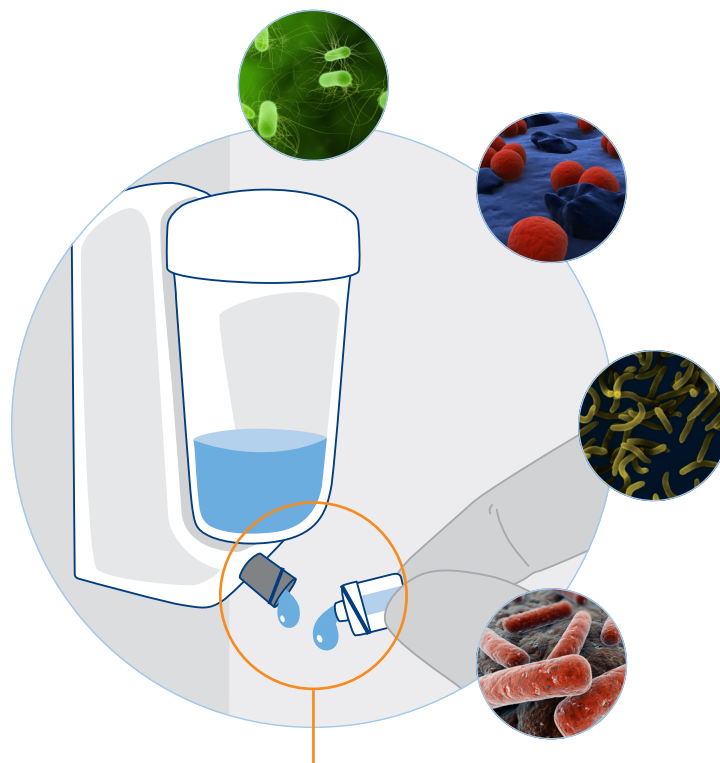
Airway Adapter Sampling Line

## Reduction of contamination risks

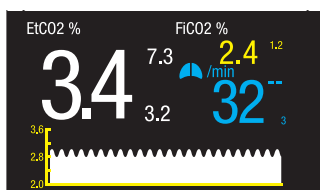
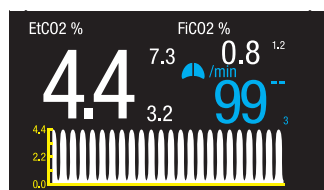
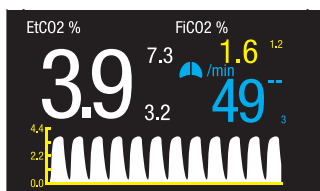
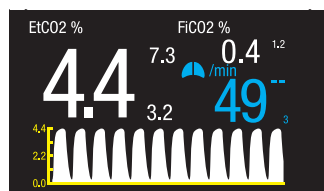
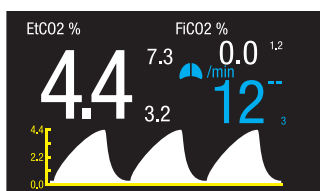
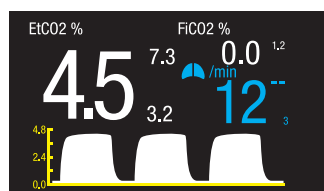
The integrated bacteria filter of the VersaStream® gas sampling lines prevent contamination of gas-conducting components in and at the patient monitor. Transmission of germs, e.g. by contamination at the sample gas connection port of the monitor or at the water separation unit is prevented.

Water traps or water absorbers that are used in many gas monitoring applications in anaesthesia or intensive care – require either no replacement; or reduced need for replacement and emptying when using VersaStream® gas sampling lines.

Alarms triggered at the gas monitor by full water traps are significantly reduced. The associated patient monitoring labour and consumables costs are reduced considerably.



Contamination risk where standard lines are used with systems that employ water traps. VersaStream® lines resolve this potential infection control issue.



VersaStream®

LDS filter – Low-dead-space bacteria filter

## Reliable measured values – even in cases of high breathing or ventilation frequency

The dead space volume of the filter unit has been reduced to only a few micro litres, thus facilitating precise measurement of CO<sub>2</sub> concentrations in the breathing gas – even at high respiration rates.



## Diverse areas of application

VersaStream® gas sampling lines are suitable for use in areas, such as:

- Short and long term patient monitoring applications
- Monitoring of intubated and non-intubated patients
- Emergency medicine
- Patient transport
- Anaesthesia
- Intensive-care medicine – for adults and children
- Sedation
- Pain therapy, pain therapy management
- Homecare
- Sleep clinics and CPAP-ventilation

| Long-term application – Nasal Cannula                                                    |            | Packaging unit | Viamed Part Number | Model Number    |
|------------------------------------------------------------------------------------------|------------|----------------|--------------------|-----------------|
| CO <sub>2</sub>                                                                          | Adult      | 25 pcs./box    | 4420857            | NA-L-LLM-200    |
|                                                                                          | Paediatric | 25 pcs./box    | 4420858            | NP-L-LLM-200    |
| O <sub>2</sub> /CO <sub>2</sub>                                                          | Adult      | 10 pcs./box    | 4420860            | NAO2-L-LLM-200  |
|                                                                                          | Paediatric | 10 pcs./box    | 4420861            | NPO2-L-LLM-200  |
| Long-term application – Nasal/Oral Cannula                                               |            | Packaging unit | Viamed Part Number | Model Number    |
| CO <sub>2</sub>                                                                          | Adult      | 25 pcs./box    | 4420867            | ONA-L-LLM-200   |
|                                                                                          | Paediatric | 25 pcs./box    | 4420868            | ONP-L-LLM-200   |
| O <sub>2</sub> /CO <sub>2</sub>                                                          | Adult      | 10 pcs./box    | 4420869            | ONAO2-L-LLM-200 |
|                                                                                          | Paediatric | 10 pcs./box    | 4420870            | ONPO2-L-LLM-200 |
| Long-term application – Airway Adapter Sampling Line                                     |            | Packaging unit | Viamed Part Number | Model Number    |
| Adult/Paediatric                                                                         |            | 25 pcs./box    | 4420873            | A22-L-LLM-200   |
| Infant/Neonatal ID ≤ 4.0 mm                                                              |            | 25 pcs./box    | 4420874            | A4.0-L-LLM-200  |
| Long-term application - Sampling Line                                                    |            | Packagin unit  | Viamed Part Number | Model Number    |
| Luer Lock sampling line - LLM to LLM                                                     |            | 25 pcs./box    | 4420876            | LLM-L-LLM-200   |
| Airway Adapter only with Luer Lock (LLF) connection<br>If required, for use with 4420876 |            | 25 pcs./box    | 4420531            | A22-LLF         |

Sampling flow rate ≤ 230ml/min

Long term ≤ 72 hrs

**LLM** Luer Lock Male – general monitoring applications that have a female Luer Lock connection port

**LLF** Luer Lock Female for gas sampling lines with LLM connector

**O<sub>2</sub>/CO<sub>2</sub>** = O<sub>2</sub> delivery and CO<sub>2</sub> monitoring  
**CO<sub>2</sub>** = CO<sub>2</sub> monitoring only

**HAL** = Halothane  
**SEV** = Sevoflurane  
**N<sub>2</sub>O** = Nitrous Oxide

Specifications subject to change



Distributed by:



**Viamed Limited** · 15 Station Road · Cross Hills  
 Keighley · West Yorkshire · BD20 7DT · United Kingdom  
 Tel: +44 (0)1535 634 542 Fax: +44 (0)1535 635 582  
 Email: [info@viamed.co.uk](mailto:info@viamed.co.uk) Website: [www.viamed.co.uk](http://www.viamed.co.uk)



Part Number: 4490101  
 Date: 03/23