

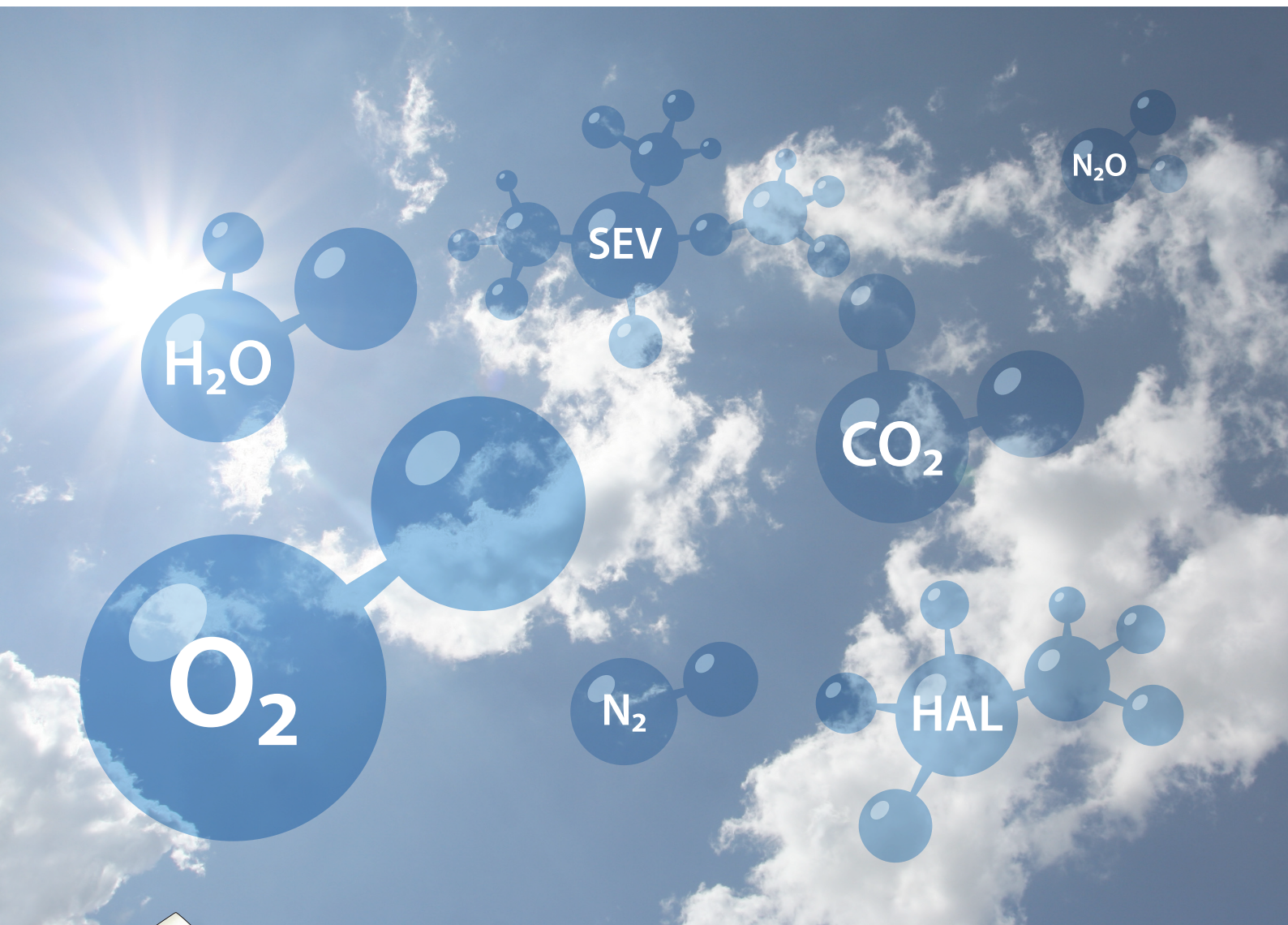
capnography



VersaStream<sup>®</sup>

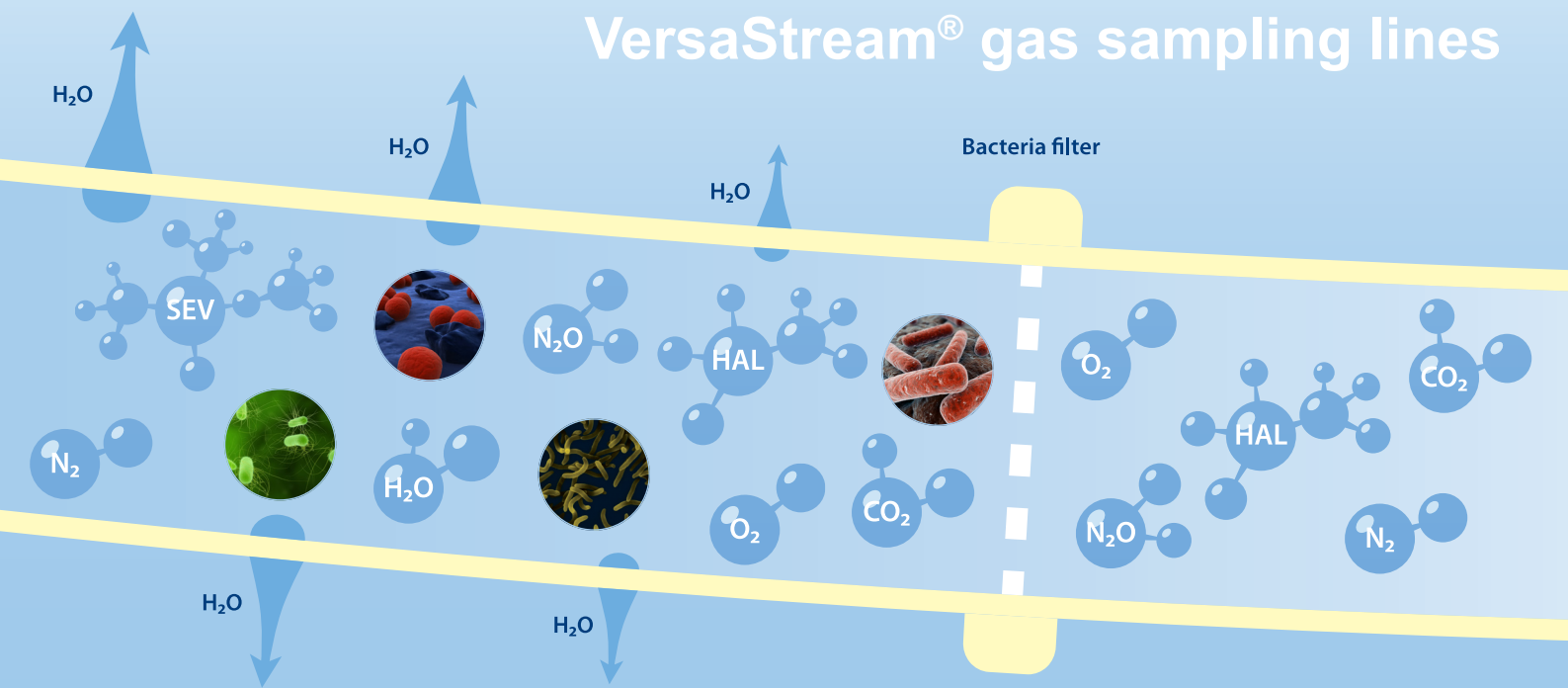
## Luer Lock Gas Sampling Lines

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



 VIAMED

# VersaStream® gas sampling lines



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

## Why VersaStream® gas sampling lines?

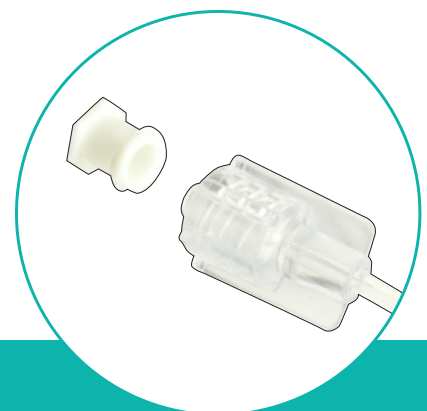
- Cost-effective alternative to Nafion® tubes.
- The gas-selective non-porous material facilitates fast and complete removal of condensation from the sampling line.
- The integrated bacterial filter prevents contamination.
- Regular water trap exchange (if present) is not required.
- Reliable measured 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.

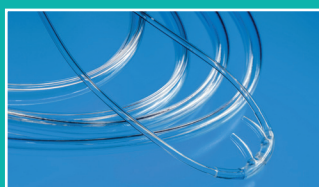
VersaStream® gas sampling lines are very flexible and are suitable for short-term and long-term applications.



## Available gas sampling lines



Nasal Sampling Line



Nasal Cannula



Nasal/Oral Cannula



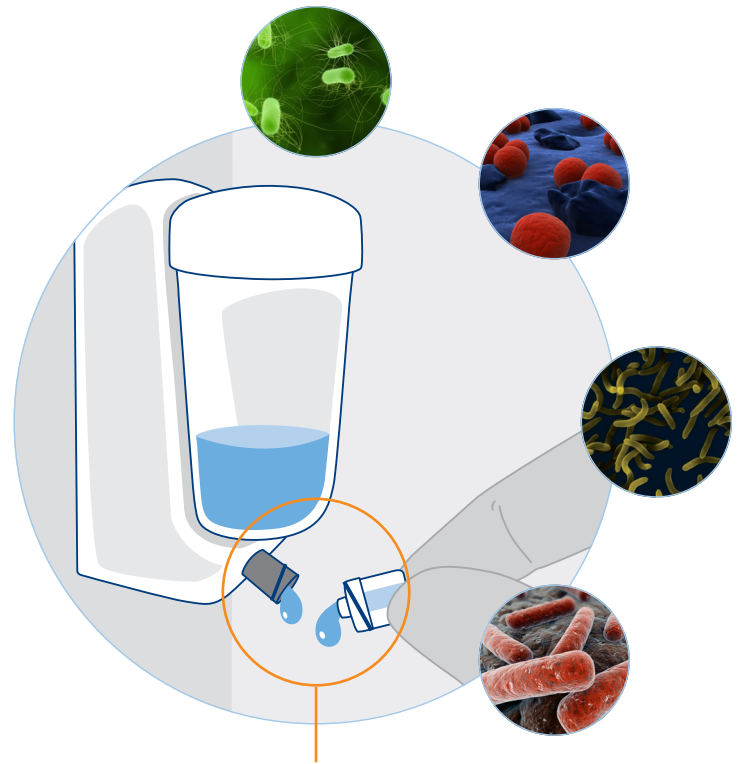
Airway Adapter Sampling Line

# Reduction of contamination risks

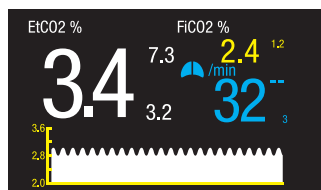
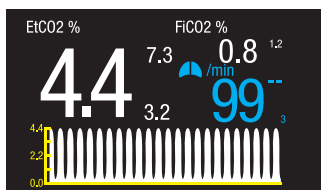
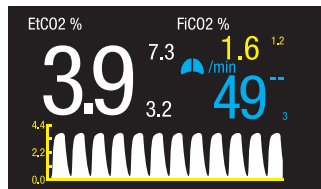
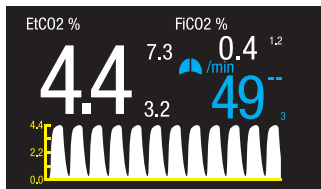
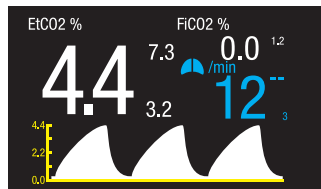
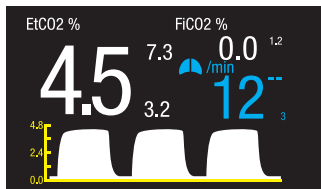
The integrated bacteria filter of the VersaStream® gas sampling lines prevent contamination of gas-conducting components in and at the patient monitor. Transmission of germs, e.g. by contamination at the sample gas connection port of the monitor or at the water separation unit is prevented.

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
	Infant	25 pcs./box	4420859	NI-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
	Infant	10 pcs./box	4420862	NIO2-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
Airway Adapter only with Luer Lock connection		25 pcs./box	4420531	A22-LLF

Short term ≤ 24 hrs

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

Sampling flow rate ≤ 230ml/min

CE/CE0086

Specifications subject to change

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



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