

## Instrument, parts and accessories:

NIOX VERO® package (12-1100 for EU and 12-1500 for UK and IRL) contains: NIOX VERO Instrument, Breathing Handle, Power Supply, USB Cable, Battery, User Manual, USB Memory stick including NIOX® Panel

## Accessories:

NIOX VERO Test kit 100 (1 NIOX VERO Sensor 100 + 100 NIOX VERO filters) (12-1810)  
NIOX VERO Test kit 300 (1 NIOX VERO Sensor 300 + 300 NIOX VERO filters) (12-1830)  
NIOX VERO Test kit 500 (1 NIOX VERO Sensor 500 + 500 NIOX VERO filters) (12-1850)  
NIOX VERO Test kit 1000 (1 NIOX VERO Sensor 1000 + 1000 NIOX VERO filters) (12-1900)

## NIOX VERO® Specifications

Exhaled NO – Performance Data	
Measurement range: FeNO	5 to 300 ppb
Exhalation time	10 seconds (preferred mode) 6 seconds (only for children ≤ 10 years who are not able to perform the 10 sec test)
Measurement time	1 min
Accuracy	+/- 5 ppb of measured values ≤50 ppb, max. 10% of measured values > 50 ppb
Precision	<3 ppb of measured value <30 ppb <10% of measured value ≥30 ppb
Instrument memory capacity	15000 measurements
Dimensions (height x width x depth)	145 mm x 185 mm x 41 mm
Weight (including Sensor)	1 kg
Shelf-life (device)	Minimum 5 years at time of delivery, or 15000 measurements

The instrument is verified to fulfill the specified performance under the temperature range within +10 to +35 °C, relative humidity range of 20- 80% and pressure range of 700-1060 hPa.



Learn more about FeNO and how NIOX® is helping to improve and change the way asthma is assessed and managed

[www.niox.com](http://www.niox.com)

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 **NIOX®** | CHANGING THE FACE OF ASTHMA CONTROL

**NIOX VERO®**  
For assessment and management of airway inflammation

**NIOX VERO® is a point-of-care device for assessing airway inflammation in patients with respiratory problems such as asthma. NIOX VERO is a further development of NIOX MINO®, the most widely used device for measuring airway inflammation in clinical practice and clinical studies all over the world.**

## Expected characteristics for a point-of-care device

- Easy to use
- Quick results
- Reliable and accurate results
- Trouble free maintenance

## What NIOX VERO® gives you

### Easy to use and quick results

- Designed with patients and health care professionals in mind to ensure best performance
- Can be used both for children and adults (provided patient cooperation)
- Short start-up time
- Quick analysis time, in approximately one minute

**Facilitates clinical management decisions at the point of care**



## Improved Treatment and Care of Patients

**FeNO (Fractional exhaled Nitric Oxide) testing with NIOX VERO offers individualised asthma management that can improve the treatment and care of patients.**

**Regular FeNO testing of asthma patients with NIOX®, measures allergic airway inflammation (Th2 driven) and helps to:**

- Reveal if the patient will benefit from ICS (Inhaled corticosteroids) treatment
- Optimise ICS dose and reduce exacerbations up to 50%<sup>1,2,3</sup>
- Detect patient non-adherence to ICS<sup>4</sup>

**While improving asthma outcomes<sup>1,2,3</sup> and reducing costs<sup>5</sup>**

### Reliable and accurate results

- Internal check of electronics every time at start-up.
- Measurement result obtained only when the patient completes procedure correctly
- Good repeatability allows for one measurement only
- Follows ATS/ERS equipment recommendations
- CE marked

**Quality assured measurement results you can rely upon**

### Trouble free maintenance

- Service and maintenance free device
- 5 years shelf-life and 15 000 measurements
- No calibration required

**A product you can rely upon**

### Use as stand-alone or connected to a PC/tablet (Windows®, but not RT)

NIOX VERO® can be used as stand-alone or connected to a PC. This includes a visual incentive (NIOX® Panel) during the procedure on a PC screen and a program (NIOX Patient) allowing documentation of patient data and capable of use with Electronic Medical Record systems.



Visual incentive on a tablet screen



NIOX® Patient for patient data management

1. Powell H, Murphy VE, Taylor DR, et al. Management of asthma in pregnancy guided by measurement of fraction of exhaled nitric oxide: a double-blind, randomised controlled trial. Lancet. 2011;378(9795):983-990. 2. Peirsmann E, Carvelli T, Hage P, Hanssens L, Pattyn L, Raes M, Sauer K, Vermeulen E, Dingsdag K. Exhaled Nitric Oxide in childhood allergic asthma management: a randomised controlled trial. Pediatric Pulmonology. 2013. 3. Syk A, Malinoschi A, Johansson G, Undén A, Andreasson A, Lekander M, Alving K. Anti-inflammatory treatment of Atopic Asthma Guided by Exhaled Nitric Oxide: A Randomized, Controlled Trial. J Allergy Clin Immunol. 2013. 4. Beck-Ripp J, Griese M, Arenz S, Köring C, Pasqualoni B, Butler P. Changes of exhaled nitric oxide during steroid treatment of childhood asthma. Eur Respir J. 2002;19(6):1015-1019. 5. Leslie D, Mohammad A, Leach EE, Hernandez PJ, Walker EA. An investigation of asthma care best practices in a community health center. J Health Care Poor Underserved. 2012;23(3 suppl):255-264.