

## FeNO TESTING WITHOUT LIMITS<sup>™</sup>

BASED ON PROVEN, VALIDATED BEDFONT® FeNO TECHNOLOGY

### FeNObreath IS A PORTABLE DEVICE, FOR USE ON PEDIATRIC AND ADULT PATIENTS

#### FEATURES:

- Handheld, portable, battery-operated device can be used in the hospital or at remote locations.
- Single patient use mouthpiece for safe testing at an economical cost/test: The mouthpiece is specifically designed with an integrated filter to remove >99% of airborne bacteria and >98% of viruses.
- FeNo results can be entered manually into MGC Diagnostics software to display pulmonary function test results for storage and reporting.

#### WHY FeNObreath OVER OTHER DEVICES?

- Patient testing & results can be displayed within a minute of turning the sytem on.
- The patient never inhales through the device (optimal infection control).
- No test kits to purchase or expire only purchase mouthpieces.
- Long shelf life mouthpieces are available in multiple quantities.
- Perform multiple tests on each patient at no additional cost\*.
- Lowest cost per patient test on the market.
- Five year life warranty\*\*.



\* up to three tests per mouthpiece. \*\* tested up to 29.000 tests, subject to service and maintena Color touch-screen displays intuitive test instructions with a simple menu driven graphical interface featuring adult and pediatric incentive screens.



www.mgcdiagnostics.com

# **BENEFITS OF PERFORMING** FeNO TESTING:

- Non-invasive, quick and easy to perform<sup>1</sup>
- Monitor patient's response to treatment, enabling the correct prescription • of medication and safer/monitored adjustments
- Monitor patient adherence to treatment<sup>2</sup> ۲
- Assists in identifying patients who may or may not require on-going treatment<sup>3</sup> •
- Aids in differentiating between allergic (eosinophilic) and non-allergic asthma<sup>4</sup>
- Andrew D. Smith, Jan O. Cowan, Sue Filsell, Chris MacLachlan, Gabrielle Monti-Sheehan, Pamela Jackson and D. Robin Taylor. Diagnosing Asthma: Comparisons between Exhaled Nitric Oxide Measurements and Conventional Tests. Am J Respir Crit Care Med Vol 169. pp 473-478, 2004.
- 2. Beck-Ripp J, GrieseM, Koring C, Pasqualoni B, Butler P. Changes of exhaled nitric oxide during steroid treatment of childhood asthma. Fur Respir J 2002:19:1015-1019.
- 3. D R Taylor, MW Pinenburg, A D Smith and J C D Jongste. Exhaled nitric oxide measurements: clinical application and interpretation. Thorax 2006;61:817-827. 4 Coumou HBel E. Improving the diagnosis of eosinophilic asthma [Internet]. Taylor and Francis online. 2017 [cited 15 March 2017].
  - Available from: http://www.tandfonline.com/doi/f II/10.1080/17476348.2017.1236688



#### **SPECIFICATIONS**

Concentration range		5 - 500ppb	
Display		Full color Touchscreen	
Detection principle		Electrochemical sensor	
Repeteability		$\pm$ 5ppb of measured value $\leq$ 50ppb	
		± 10% of measured value > 50ppb	
Accuracy		$\pm$ 5ppb of measured value $\leq$ 50ppb	
		± 10% of measured value > 50ppb	
Power	FeNObreath <sup>®</sup> monitor	1 x main rechargeable Li-ion battery	
		Approx. 100 uses on fully charged battery	
		2 x Li-ion coin cell battery - Approx 5 years	
		Input: 5V 0.5A	
	FeNObreath <sup>®</sup> Dock	Input: 5V 0.5A	
		Output: 5V 0.5A	
	Plug	Input: 100 - 240V - 50/60Hz, 0.2A	
	-	Output: 5V 1.0A	
T50 response time		≤ 10 seconds	
Operating temperature		59-86°F (15 - 30°C)	
Storage/transport temperature		32-122°F (0 - 50°C)	
Operating/storage/transport pressure		Atmospheric ± 10%	
		Altitude -1700 to 6300 ft	
Operating humidity		20 - 80% non-condensing	
Storage/transport humidity		9 - 95% non-condensing	
Expected Sensor operating life		5 years (Subject to correct servicing)	
Sensor sensitivity		1ppb	
Sensor drift		< 5% per annum	
Dimensions		Approx. 3.5 x 6.2 x 2.3 inches	
		Approx. 90 x 159 x 59mm	
Weight		Approx. 0.9 lb (400g)	
Materials	FeNObreath <sup>®</sup> monitor	Case polycarbonate/abs blend	
	FeNObreath <sup>®</sup> Dock	SteriTouch <sup>®</sup> anti-microbial additive	
	FeNObreath <sup>®</sup> mouthpiece	Polypropylene	
Breath test time		Adult: 12 seconds	DESIGNED, DEVELOPED AND MANUFACTURED BY:
		Child: 10 seconds	
		Ambient: 30 seconds	
Warm-up time		≤ 60 seconds	
Maximum ambient operating level		350ppb NO	
CO cross interference		45ppm ≤ 17.6ppb	
Note		Exhaled flow during FeNO measurement	Deatont est, 1976
		at 50ml/sec ± 10% at 10cm H20	

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