NOXtec

NOXtec 1000

The Automatic or manual dosing Nitric Oxide Device

NOXtec 2000

The Semiautomatic or manual dosing Nitric Oxide Device

NOXtec 3000

The Nitric Oxide Monitor

NOXTEC
NIPPON GASES

NOXtec 1000

The Automatic or manual dosing Nitric Oxide Device

Main Features

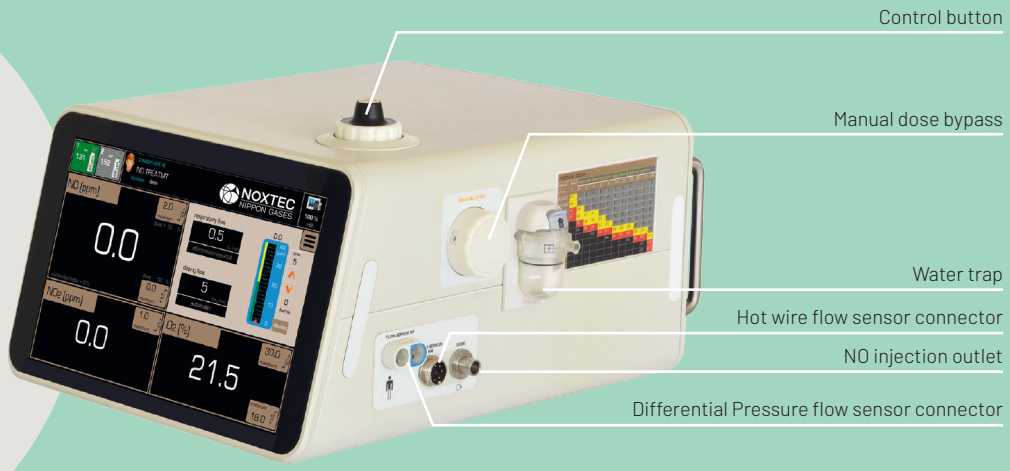
- Dosing and monitoring modules and user interface independent from each other to guarantee the patient's safety.
- Automatic calibration of the NO, NO_2 and O_2 sensors, available even when the device is dosing.*
- Dosing mode options: Real time, Automatic, Semi-automatic, Manual.
- Emergency manual dosing mode, which can be used even when the device is off.
- Automatic venting procedure to minimize the NO_2 supplied to the patient at the beginning of the treatment and during the cylinder exchange and to depressurize the system when the device is not in use.
- Negligible liberation of NO to the environment: there's a purge outlet to gather and canalize the residual gas.
- Measurement of the concentration of NO, NO_2 and O_2 in the room.
- Hot wire and differential pressure technologies for the external breathing flow sensors.
- Ethernet port for remote technical assistance.
- USB port to retrieve therapy data files.

Cart and other accessories

- The cart can transport till 2 cylinders of mixture NO-N_2 till 20 liters of volume.
- Automatic cylinder exchange to increase the treatment autonomy and optimize the gas consumption.
- Consumable kits are supplied to connect the device to all kind of ventilators.
- Easy to move thanks to the swivel wheels.

DOSE SYSTEM						MONITOR SYSTEM	
Real time mode	Automatic mode	Semiautom. mode	Manual mode	Cylinder exchange	Automatic venting	Automatic calibration	Room measurement
✓	✓	✓	✓	✓	✓	✓	✓

** Patented system by NOXtec*



NOXTEC
NIPPON GASES

NOXtec 2000

The Semiautomatic or manual dosing Nitric Oxide Device

Main Features

- Dosing and monitoring modules and user interface independent from each other to guarantee the patient's safety.
- Automatic calibration of the NO, NO_2 and O_2 sensors, available even when the device is dosing.*
- Dosing mode options: Semi-automatic or Manual.
- Includes an emergency manual dosing mode, which can be used even when the device is off.
- Negligible liberation of NO to the environment: there's a purge outlet to gather and canalize the residual gas.
- Ethernet port for remote technical assistance.
- USB port to retrieve therapy data files.

Cart and other accessories

- The cart can transport till 2 cylinders of mixture NO-N_2 till 20 liters of volume.
- Automatic cylinder exchange to increase the treatment autonomy and optimize the gas consumption.
- Consumable kits are supplied to connect the device to all kind of ventilators.
- Easy to move thanks to the swivel wheels.

DOSE SYSTEM						MONITOR SYSTEM	
Real time mode	Automatic mode	Semiautom. mode	Manual mode	Cylinder exchange	Automatic venting	Automatic calibration	Room measurement
✗	✗	✓	✓	✗	✗	✓	✓

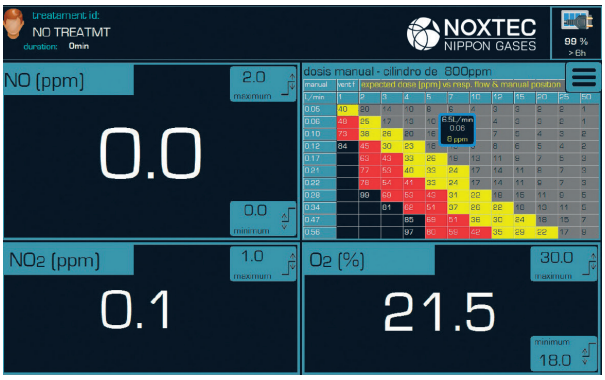
** Patented system by NOXtec*

NOXtec 3000

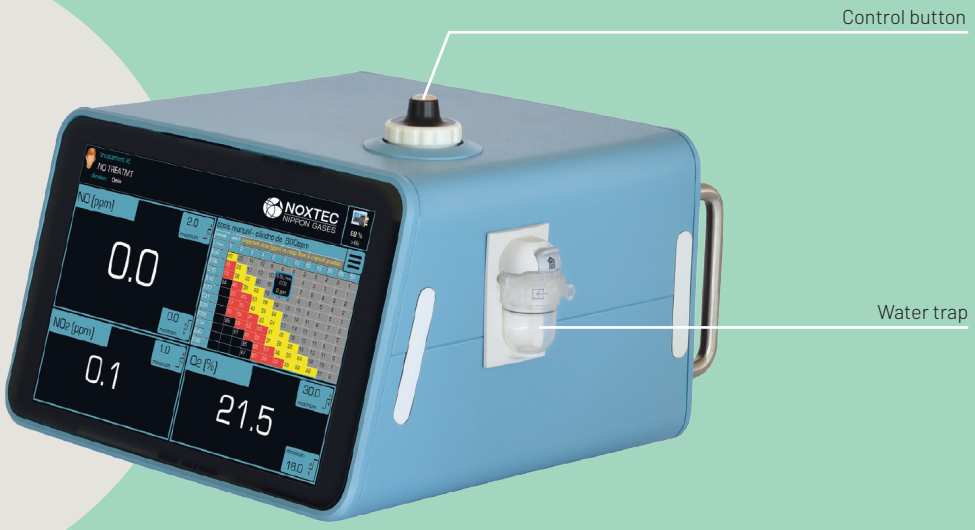
The Nitric Oxide Monitor

Main Features

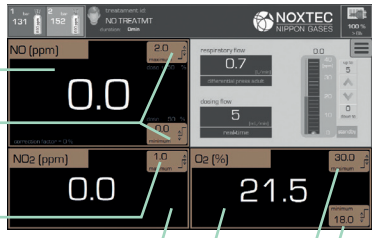
- Monitoring module and user interface independent from each other to guarantee the patient's safety.
- Automatic calibration of the NO, NO_2 and O_2 sensors, available even when the device is dosing.
- Ethernet port for remote technical assistance.
- USB port to retrieve therapy data files.
- Consumable kit are supply to connect to all kind of ventilators.



DOSE SYSTEM						MONITOR SYSTEM	
Real time mode	Automatic mode	Semiautom. mode	Manual mode	Cylinder exchange	Automatic venting	Automatic calibration	Room measurement
✗	✗	✗	✗	✗	✗	✓	✓



Monitor (all models)



NO measurement

NO limits for alarms
Referenced to the dosing value

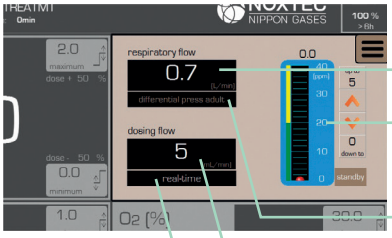
NO_2 limit for alarm

NO_2 measurement

O_2 measurement

O_2 limit for alarm

Delivery System (NOXtec 1000 and 2000)



Respiratory flow

To set the dose

Respiratory flow sensor

Dosing flow measurement

Dosing mode

Configurable Operational Modes

Real-time: N_2/NO dosing flow is proportional to the respiratory flow all the time (correction every 10ms).

Automatic: N_2/NO dosing flow is calculated averaging the respiratory flow during a time (selectable between 3-20 seconds).

Semi-automatic: respiratory flow value is defined by the user in the user interface.

Manual: dosing is controlled by the manual flow controller incorporated to the right side of the device. Gas will be delivered by the same dosing gas outlet.

Rear Panel (NOXtec 1000)

Ethernet port (for technical service)

Calibration gas inlet

Manual purge for calibration gas

Exhaust gas outlet

Manual purge for dose cylinder

Cylinder's inlet

High pressure sensor connectors

Power switch

RS 232

USB connector

Technical Specifications

	NOXtec 1000	NOXtec 2000	NOXtec 3000
Main unit dimensions	205 x 300 x 345 mm; 7.5 kg		205 x 300 x 280 mm; 6.2 kg
Cart dimensions	1250 x 670 x 640 mm; 47.5 kg		
Cart´s capacity for cylinders	2 cylinders till 20 liters		
Touch Screen	Colour 10.1" LCD screen		
Dosing modes	- Real time - Automatic - Semiautomatic - Manual	- Semiautomatic - Manual	-
Measuring range	NO flow: 0-4 L/min		-
Max NO dosing	0.1 - 100 ppm		-
Dosing accuracy	±5%		-
Dosing resolution	0.1 ppm		-
Monitor resolution	NO: ±10% NO_2: ±10% O_2: ±3.5%		
Operating conditions	From 10 to 40°C; from 15 to 90% humidity		
Storage conditions	From -10 to 60°C; from 15 to 90% humidity		
Power	100-240 VAC, 50-60 Hz		
Battery	Duration: 6h Charging time: 2.5h approx		

Printed in Italy **NOXTEC-UK-01 08/22**

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Noxtec Development S.L.
Spanish company with registered office at Street Bellas Vistas, 55
28411 Moralzarzal - Madrid - Spain
Registered in the R.M. of Madrid. Volume 35.738, Sheet 171, Page M-642237,
Inscription no. 6, tax identification number B87789186

noxtec@noxtecdevelopment.com