

NITRONOX PLUS®

50/50 Fixed Demand Flow Nitrous Oxide & Oxygen System



- 50/50 fixed O₂/N₂O demand flow system
- Designed for use with children and adults
- Key lock mechanism for safety and security
- Audible low gas pressure alarm
- Internal, but accessible demand valve
- Safety function test button
- Designed to meet infection control standards
- Manufactured and serviced in the USA
- 3-year warranty

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www.porterinstrument.com/nitronox | 215-723-4000 | porternitrous@parker.com

Specifications

Dimensions

11" L x 11" W x 8" H
(28 cm L x 28 cm W x 20.3 cm H)

Weight

13 lbs (5.9 kg)

Connection Fittings

Oxygen Inlet: DISS 1240 (Male)
Nitrous Oxide Inlet: DISS 1040A (Male)
Mixed Gas Connection Port: 22 mm taper

Gas Supply Pressure

O₂: 45 to 60 psi (310.3 to 413.6 kPa)
N₂O: 45 to 60 psi (310.3 to 413.6 kPa)

Temperature

Storage & Transportation:
-40°F to 140°F (-40°C to 60°C)
Operational: 41°F to 100°F (5°C to 38°C)

Humidity

Storage & Transportation: 10-70%
Operational: 10-70%

Atmospheric Pressure

1 atm ± 0.2 atm (101 kPa ± 20 kPa)

Mixture Settings

Preset 50% N₂O/O₂ (50/50 model)

Delivery Flowrate

Up to 100 L/min total flow at 50% N₂O/O₂

Delivery Accuracy

Normal and Heavy Breathing: ± 5% O₂
Light/Shallow Breathing: +20/-5% O₂

Usage Time

With "E" Cylinders at normal breathing rates, gas supply will last approximately:

N₂O: 6 hours

O₂: 2 hours

Alarm Activation

Whistle alarm signals low gas supply when pressure drops to approximately 35 psi (2.41 bar)

Demand Valve

Cracking Pressure: < 2 cmH₂O



Part # NOX-PLUS-5050

Nitronox Plus® 50/50 Model

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