



# Nitrous Oxide and Oxygen Analgesia Systems

FDA Cleared Nitrous Oxide and Oxygen Analgesia Systems  
Help your patients relax

Nitrous oxide is a safe and effective sedative agent that is mixed with oxygen. Nitrous oxide is used during procedures and treatments to help your patients feel more comfortable.

## HOW DO THE NITROUS OXIDE AND OXYGEN ANALGESIA SYSTEMS WORK?

The Nitrous Oxide and Oxygen Analgesia Systems deliver nitrous oxide (N<sub>2</sub>O) and oxygen (O<sub>2</sub>) which is inhaled through a mouthpiece or mask, providing your patients control through self-administration. The patients breathe normally through their mouth, and within a few short minutes they will start to feel the relaxing anxiolytic effects of the gas mixture. The effects of nitrous oxide wear off within 5 minutes after the last inhalation of the N<sub>2</sub>O/O<sub>2</sub> mixture.

Demand flow systems are simple and easy to use by providing a fixed 50/50 mixture of N<sub>2</sub>O and O<sub>2</sub>. Continuous flow systems allow you to adjust both the flow and percentage mixture from 0-70% N<sub>2</sub>O to achieve the desired patient experience. Continuous flow systems can also be "capped" at 50/50.

## APPLICATION RECOMMENDATIONS

The Nitrous Oxide and Oxygen Analgesia Systems are ideal for short, mini-mally invasive, and non-invasive procedures where there is a need for pain management or minimal sedation:

- Bone Marrow Harvesting
- IV Starts/Blood Draws
- Joint Injections
- Childbirth
- Vein Procedures
- Hair Injections & Grafting
- CT Scans
- Botulinum Injections
- Incision and Drainage
- Sutures
- Fracture Reductions
- Urogenital Procedures
- Liposuction
- Lumbar Punctures
- Cosmetic Procedures
- Intraosseous Injections
- Spine Procedures

## BENEFITS

### Rapid Onset & Short-Acting

- Our systems are safe and provide patients with control over pain mitigation
- Reduce recovery time
- Improve throughput
- Replace oral medications

### Improved Patient Care

- Increase treatment acceptance as N<sub>2</sub>O relaxes and provides comfort for your patients
- Improve patient satisfaction scores and patient referrals
- Get patients back to normal activity faster

### Cost-Effective

- Low consumable cost
- Reduce staffing for patient monitoring
- Complete procedures more efficiently
- Allow more in-office procedures



Nitronox™



MXR-3000



SENTRY SEDATE



### COMPETITIVE ADVANTAGE

- 1. The Nitrous Oxide and Oxygen Analgesia Systems are made in the USA and built to last.
- 2. The Nitrous Oxide and Oxygen Analgesia Systems have never had a recall.
- 3. The Nitrous Oxide and Oxygen Analgesia Systems can be set to provide 100% O<sub>2</sub> to patients to flush their system of any residual N<sub>2</sub>O at the end of the procedure to help patients recover faster.
- 4. ONLY company to have both Fixed Demand Flow and Continual Flow Systems.
- 5. Inexpensive disposables make procedures safe and cost effective (no onerous disposable purchase requirements).
- 6. Bacterial/Viral filters add additional layer of protection for exhaled gas waste.

### COMPARISON 50/50 DEMAND FLOW & CONTINUOUS FLOW

	Nitronox™	MXR-3000	SENTRY SEDATE
Visual confirmation of real time flow	Has glass flow tubes with ball float	Has a breathing bag	
Can deliver 50% mixture of N <sub>2</sub> O and O <sub>2</sub>	✓	✓	✓
N <sub>2</sub> O can be adjusted from 0-70%		✓	✓
Can be patient self-administered <i>(May not be appropriate for children. Continuous Flow - supervision recommended)</i>	✓	✓	✓
Oxygen flush mechanism <i>(Demand Flow - can close N<sub>2</sub>O cylinder to deliver 100% O<sub>2</sub> for "on demand" O<sub>2</sub> - not supplemental though.)</i>		✓	✓
Commonly used for pediatric applications <i>(Feedback on demand low systems indicates unpredictable results with children and demand valve age/weight limitations.)</i>		✓	✓
Scavenging options available	✓	✓	✓
4 cylinder options available	✓	✓	✓
Dual locking doors			✓
Working surface & internal + external storage			✓
Uses non-proprietary medical gas supply <i>(All Porter systems can be used with gas from any medical gas supplier - cylinder or central supply.)</i>	✓	✓	✓

Regulatory: K883833  
Class II breathing gas mixer

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