

Medclair



Revolutionizing

Safe and sustainable use of Nitrous Oxide

Benefits of Nitrous Oxide

Nitrous oxide (N_2O) is used either as a premix or administered with an N_2O mixer, and it offers numerous benefits to patients: such as;

- Rapid pain relief
- Fast active sedative
- Allows self-breathing and bodily function control

Exposure risks of N_2O

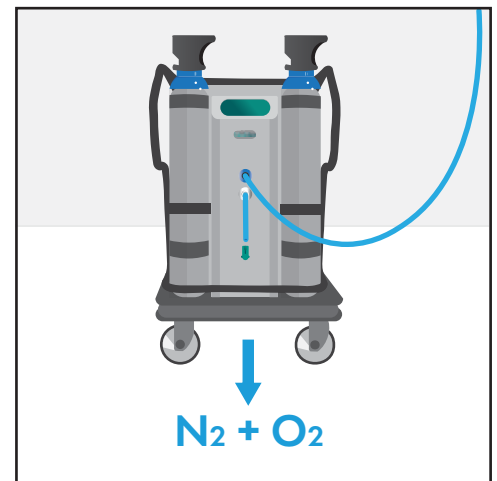
N_2O use raises particular concerns for healthcare professionals, in the following cases which may cause health effects:

- Regularly exposed to the gas
- Prolonged exposure to N_2O
- Subject to exposure limits, often referred to as threshold limits

Established threshold limits guide safe levels of exposure to exhaled N_2O for healthcare personnel. Capturing and redirecting the gas is crucial to protect staff and the environment from its potent greenhouse gas effects.

Innovative Solutions for N_2O : Medclair Leads the Way

Medclair has been tackling the challenges of N_2O since 2013. Our patented technology offers a stable, energy efficient solution for the distribution, collection, and destruction of N_2O in healthcare facilities, enabling environmentally-conscious pain relief.



Our technology

The exhaled air containing N_2O is collected into our machine. A catalytic process takes place at high temperatures, breaking down the N_2O into oxygen and nitrogen (the main constituents of regular air). The purified air is released into the atmosphere.



Mobile Destruction Unit (MDU)

The MDU has been designed with the mobility needs of healthcare professionals in mind.

- Easily maneuvered between treatment rooms
- Contributes to a healthy working environment for the personnel
- Eliminates more than 99% of N₂O entering the unit
- Low noise level and no vibrations
- Low energy consumption

Central Destruction Unit (CDU)

A leading-edge system designed to collect and decompose large volumes of N₂O.

- Accommodates several treatment rooms simultaneously
- Contributes to a healthy working environment for the personnel
- Eliminates more than 99% of N₂O entering the unit
- Low noise level and no vibrations
- Low energy consumption



Nitrous Oxide Detector (NOD)

The NOD is a wearable and personal N₂O detector.

- Provides real-time exposure levels and data logging
- Includes alarm for high concentration levels
- Pre-configured to meet local regulations
- Detects concentrations as low as 25 ppm
- Analyzes data from a work shift



Medclair: Building a Green Future in Healthcare

Nitrous oxide (N_2O) is a potent greenhouse gas and ozone depleter. It offers pain relief (analgesic) and anxiety reduction (anxiolytic) benefits in healthcare. Although N_2O is commonly used in the healthcare industry, uncontrolled N_2O releases harm the environment as an air pollutant.

Since 2013, Medclair has been developing and offering smart solutions to reduce N_2O emissions and create a healthy working environment through innovation. Today Medclair is a research and development company and the leading provider of sustainable and innovative solutions for decomposing N_2O . Facing a climate crisis, we need immediate action. Proven N_2O solutions await. Let's act now – for the health of our planet and our people.

Contact Medclair for more information about our technical solutions: info@medclair.com