

Mobile Destruction Unit & Analgesic Demand Valve



A collaborative approach in working towards a NetZero NHS

BPR Medical and Medclair, a leading Sweden-based specialist in safe nitrous oxide use, have agreed to share technology and product information to help the NHS achieve its aim of reducing nitrous oxide emissions by 75 per cent. Part of its goal is to reduce greenhouse gas emissions by 80 per cent within the next seven to eleven years and achieve 'net zero' by 2040.

The collaboration has already supported the UK's first climate-friendly gas and air labour at Newcastle's Royal Infirmary in September 2021.

The Medclair MDU (mobile destruction unit) is an innovative solution which collects residual nitrous oxide from exhaled air and subsequently destroys the gas. The system purifies more than 99% of nitrous oxide entering the unit which helps to facilitate a healthy work environment for healthcare professionals and a safer space for patients.

BPR Medical's Ultraflow™ analgesic demand valve with built-in scavenging system helps integrate the Medclair technology. It's unique patented exhalation valve diverts contaminated breath away from the handset, virtually eliminating the risk of cross-infection.

Medclair

The MDU works only with demand valves that have an AGSS (Anaesthetic Gas Scavenging System)

The BPR demand valve was designed in partnership with nurses, midwives and medical engineers and:

- Enables women to conserve more energy for birth
- Diverts contaminated breath and exhaled N₂O via the AGSS away from the handset, virtually eliminating the risk of cross-infection and enabling the destruction of the gas
- Quiet, light, mobile, ergonomic, easy to clean and requires minimal maintenance



About BPR Medical

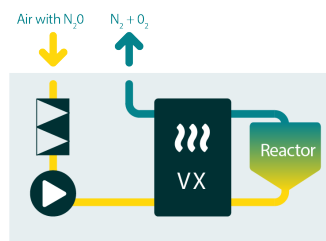
Established in 1990, BPR Medical is an international leader in the design and manufacture of medical gas therapy solutions. We are one of the UK's leading independent manufacturers of medical gas products with a reputation for innovation, quality, integrity and value.

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Mobile Destruction Unit (MDU) – safe N₂O handling for users demanding mobility

- The Mobile Destruction Unit mitigates greenhouse gas emissions and provides a safe work environment for N₂O users
- Cracks more than 99% of scavenged N₂O into harmless nitrogen and oxygen
- Unit is a self-supporting system with low noise level and minimum energy consumption
- The mobility combined with its ease of use makes it suitable for various healthcare settings

All Medclair solutions are made with sustainability in mind and a high degree of energy recycling.



Technical data

- Reduction level (N₂O) > 99 %
- Depth, width, height 58 x 57 x 100 cm
- Weight 70 kg
- Power supply 230 V, 3.15 A
- Power consumption < 100 W (During startup 800 W)
- Noise level < 35 dB
- Start to first use < 29 min

About Medclair

Medclair, founded in 2013, is a Swedish research and development company with leading-edge expertise in process gas purification, gas measurement, ventilation and control. We solve healthcare and environmental challenges through innovation.

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