

Nitrous Oxide Sedation

AiHealthcare

 **Baldus**

Products 2025

The Revolution

Ai Healthcare is a family owned business based in Cardiff, South Wales. We have been supporting Dentists since 1999, providing maintenance and equipment support to private and NHS organisations across the UK.

The Company recently bought Cestradent McKesson Sedation which was a famous UK manufacturer of Gas Sedations Systems. The family run business has been developing and manufacturing sedation systems in the UK since 1938. Ai Healthcare are now the custodians of this great legacy, and are proud to continue the important work of these timeless pioneers.

Ai Healthcare is the exclusive UK Distributor for the Baldus range of Nitrous Oxide Sedations Systems from Germany. This is also a family run business with a rich history in developing world class and innovative Gas Sedation Systems.

The Baldus brand evokes style, uncompromising quality and a commitment to develop the best products to meet the challenges of the future. With Baldus Nitrous Oxide systems, we have taken a step further.

We have taken the revolution of dental nitrous oxide sedation into our hands.

Ai Healthcare recognise that dentists want to adopt new technologies with practical solutions, that are easy to use in practice. Our products meet these requirements with new developed technology and unique systems. We help dentists improve patient outcomes and welfare by reducing unnecessary stress.

By focusing on high quality products, strong innovation and modern design, the Baldus solution is simply superior, convincing in every sense: hygiene, function, design, efficiency, safety and compliance.

AiHealthcare

www.aihealthcare.uk



Dental Nitrous Oxide Sedation

Anxiety free experience with Nitrous Oxide Sedation. Baldus has the solution for you and your patients.

It is estimated across Europe that up to 60% of the population fear the visit to the dentist. 20% of this percentage are considered to be highly anxious, and up to 10% avoid dentist completely due to severe anxiety.*

Inhalation sedation with nitrous oxide and oxygen – is suitable for all ages.

Patient's fear or anxiety will be greatly reduced which will make for a far better atmosphere for both the patient and dentist, enabling for a better and more efficient treatment.

Nitrous oxide, or N_2O , has been used successfully for more than 160 years in dentistry. The mix of N_2O and O_2 is the safest and most researched and oldest sedation method. It's safe and non-toxic and when treatment is finished, the patient is given 100% oxygen, and within 15 minutes after session the patient is N_2O free. Importantly, unlike general anaesthesia, the patient is fully conscious and able to communicate.

How does nitrous oxide work? During the treatment oxygen and nitrous oxide are mixed specifically to the patient's needs. It starts with 100% oxygen then N_2O is raised successively until desired sedation is reached. While the patient is inhaling and exhaling the oxygen-nitrous oxide mixture, you and your team can start the treatment. At the end of the treatment and after receiving 100% Oxygen, the patient is lucid and able to communicate rationally being N_2O free.

The advantages of Nitrous Oxide Sedation

Reduction of pain sensitivity

20% nitrous oxide has the same analgesic potency as 15mg morphine sc.

A more gentle sedation

No anaesthesia – patient is conscious and cooperative.

Reduced gagging reflex

Decreased gagging reflex and retching makes treatment faster and more comfortable.

Efficiency & time saving

A patient with less anxiety is more cooperative and can be treated much more efficiently.

Titration

Optimal sedation by individually adjusted nitrous oxide mixture.

No adverse effects

Gentle sedation. No metabolism (< 0.1 %).
Recovery occurs within a few minutes.
Fit to drive within 15 minutes.

Reduced risks

N₂O is a sedative with the lowest side effects.

Millions of patients

Millions of patients worldwide have been treated with nitrous oxide and have overcome anxieties relating to dental treatment. Most patients would choose nitrous oxide again.

Marketing & service

Nitrous Oxide Sedation can be a unique selling point with a positive marketing effect for your practice.

The 21st Century Mixer Unit The Baldus® Touch

Images shown in this brochure are for illustrative purposes only and may differ from UK specifications.





Baldus® Touch

Elegance combined with high technology.

Our everyday lives are unimaginable without the use of touchscreens. The Baldus® Touch is the next generation of digital oxygen – nitrous oxide mixer units. The new display menu functions and system settings give the Baldus® Touch the status of a modern and distinctive mixer unit on the dental nitrous-oxide market.

High-technology

- Touch-function: High resolution screen.
- Recording: Patient ID and Parameters.
- Thermic measurement: pressure and temperature independent, faster reaction time.
- Software & Hardware Watchdog Safety.

Baldus® Touch features

- Recovery button: 100% O₂ Flush, Countdown clock.
- Error memory: Error log recorded in memory for data and analysis.
- Flow 18L/PM: Breathing Bag will fill sufficiently for anxious patients.

Smart sedation starts with a touch



Safety standards

- Self-test at power on, also in Standby mode.
- Nitrous oxide lock when lack of oxygen.
- Acoustic and visual information signals.
- User-friendly single button control.
- Red O₂-Flush-Button for immediate, 100% oxygen supply.
- Non-rebreathing valve on the Bag-T.
- Ambient air valve on the Bag-T.
- O₂ Demand Mask-Port.
- Standard coding of the gas types.

Hygienic design

- Fast and easy cleaning due to flat fronts and rounded corners.
- Intelligent placement of the ambient air valve under the Bag-T protects from dust and other pollutants.
- Filters where the gas enters to keep any impurities away.
- Microbiological testing: requirements regarding the hygienic standards during production and packing are 100% fulfilled.



- US Patented
- Touchscreen
- Automatic data documentation
- Automatic lead out by recovery button
- Maximum total flow of 18 l/min
- O₂-Flush-Button
- Self-test-function & error memory
- Software & Hardware Watchdog
- Thermic measurement



Mixer Unit

Baldus® Touch O₂/N₂O Mixer for Analgesia.

- Digital mixer unit controlled via HQ touchscreen.
- Max. mixing concentrations: 50%, 60%, or 70% N₂O (Standard: 70%).
- Precise mixing ratio adjustment via % arrow key.
- Automatic flow adjustment with single-button control.
- Oxygen flush for immediate oxygen supply via red-signal button.
- Premium safety package with acoustic and visual alerts.
- Self-test function.
- Automatic N₂O stop if oxygen supply is insufficient.
- Non-rebreathing valve on Bag-T.
- Ambient air valve (when reservoir bag is empty).
- Gas type connection coding.
- O₂-demand mask port.
- USB port.
- Mixer unit can be installed in All-in-One Cart 15005T, hollow wall, or unit door.
- Input voltage: 110/230V AC, 50-60Hz.
- Dimensions (H x W x D): 136 x 300 x 119 mm.
- Weight: 2.5 kg.
- US Patent No. 10,065,159 B2.
- German Innovation Award Winner 2019.

Article Number	Article
16010-50	Baldus® Touch-50% N ₂ O
16010-60	Baldus® Touch-60% N ₂ O
16010-70	Baldus® Touch-70% N ₂ O

The delivery includes the Mixer Unit and Bag-T, excluding the mounting and scavenger system.
A 2-year warranty is provided with the conclusion of a maintenance agreement.



Baldus® Analog

Work smarter,
not harder.
Baldus® Nitrous
Oxide Sedation.

High-quality robust material

- Rugged in design and with over 92% of the mixer unit manufactured in Aluminium and Stainless Steel.

Hygiene

- Hygienic and easy to clean.
- Fresh air valve which is under the Bag-T to prevent infiltration of dust and other pollutants.

New features

- Acoustic Alarm in the event of oxygen failure (decrease in pressure under 3 bar).
- Tamper-resistant: Opening the mixer is only possible with a purpose-built-in tool.
- Maximum flow of 15 l/min ensures the bag is always sufficiently filled.
- Centrally-placed O₂ flush button for a 100% oxygen supply and a quick reaction.
- Easily-readable nitrous oxide concentration: Baldus® Analog displays the percentage of nitrous oxide concentration and not the oxygen concentration no need to convert the gases concentration, therefore less misjudgement.



Mixer Unit

Baldus® Analog O₂/N₂O Mixer for Analgesia.

- Max. mixing concentration: 50%, 60%, or 70% N₂O (Standard: 70% N₂O).
- CE certified.
- Precise mixing concentration adjustment via %-N₂O regulator.
- Automatic output flow adjustment with increased N₂O intensity (single-button operation).
- ISO color coding.
- Red O₂ flush button for immediate oxygen supply.
- Premium safety package.
- Automatic N₂O stop and advisory tone in case of insufficient oxygen.
- Non-rebreathing valve.
- Ambient air valve (when reservoir bag is empty).
- Gas type connection coding.
- O₂ demand mask port.
- Emergency ventilation mask connection.
- Dimensions (H x W x D): 270 x 155 x 148 mm.
- US Patent No. 10,065,159 B2 .

Article Number	Article
16009-50	Baldus® Analog-50% N ₂ O
16009-60	Baldus® Analog-60% N ₂ O
16009-70	Baldus® Analog-70% N ₂ O

The delivery includes the Mixer Unit and Bag-T, excluding the mounting and scavenger system. A 2-year warranty is provided with the conclusion of a maintenance agreement.



Packages

Item Number	Product	Baldus® Touch Set	Baldus® Analog Set
16010	Mixer Unit 'Baldus® Touch O ₂ /N ₂ O Mixer for Analgesia'		
16009	Mixer Unit 'Baldus® Analog O ₂ /N ₂ O Mixer for Analgesia'		
16024-1	Baldus® Adult Double Mask Scavenger System, the package includes: autoclavable outer mask and inner mask, complete hose system and hose connectors	4	4
16002	Baldus® Vacuum Control Block with regulator valve	4	4
15015-3L	3-Liter Adult Reservoir Bag, latex free and autoclavable	4	4
15020	Ultrastim Cylinder Pressure Regulator O ₂ including medical hose	4	4
15021	Ultrastim Cylinder Pressure Regulator N ₂ O including medical hose	4	4
15004S	All-in-One-Cart Ultra Slim, encased portable cart for Baldus® Touch and Analog O ₂ /N ₂ O Mixer, Dimensions: 108 x 38,5 x 29 cm, 25 kg, Colour: matt white	4	4
	Marketing-Package: video with english subtitles for waiting room, information flyer for patients and medical devices book	4	4



Baldus® Touch

Baldus® Analog

Baldus Touch/Analog

One device, endless possibilities.



Tailored design to complement your practice.

Customise your Nitrous Oxide Cart to match your practice's interior or personal style. Choose from a wide range of RAL colour glass covers, with high-gloss or matte finishes. For a premium touch, opt for a solid wood version, such as oak, for an elegant look.



Article Number

Article

15010GRAL

Glass covers available in all RAL colours

15010S

Special surface finish

15010H

Special Edition: Solid wood



Baldus® Scavengersystem

The environmentally friendly companion
for inhalation sedation with nitrous oxide.

Sustainability

- Eco-friendly mask system.
- All parts (tube, masks, connectors) are autoclavable.
- Cost-saving with no disposable items.

Handling

- Unrestricted space for dentist and team.
- Easy to handle and set up.
- Clear markings and various sizes for quick setup.
- Translucent mask allows continuous observation of breathing.
- Compatible with all oxygen-nitrous oxide mixer units.

Safety

- Special focus on the Scavenger System.

Material

- Soft, translucent silicone.
- Latex-free and autoclavable.
- Biocompatible.

Patient Comfort

- Soft material prevents pressure marks.
- Oval membrane reduces exhalation resistance for smooth gas discharge.
- Larger inner mask volume for optimal airflow.

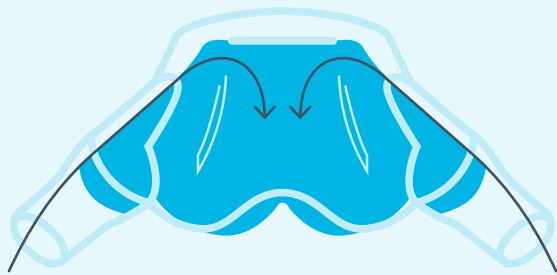
A photograph of a dental procedure. A patient with long brown hair is reclined in a dental chair. A clear, flexible airway device is positioned over their mouth and secured with a blue strap. In the foreground, a hand wearing a black nitrile glove holds the clear tubing of the device. To the left, a white dental unit with a blue top and various control knobs is visible. The background shows a typical dental office setting with white cabinetry and equipment.

Smart safety for
modern dentistry

How does the Baldus® Scavenger Breathing System work?

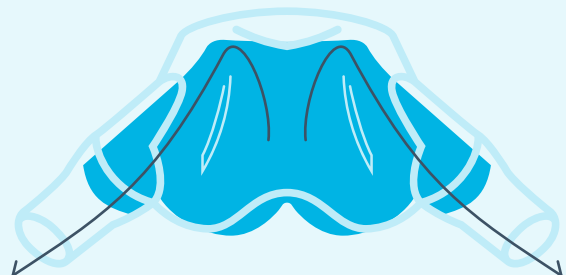
When the patient exhales, the membrane in the inner mask opens, allowing the exhaled gas to enter the outer mask. The suction in the outer mask is separate from the inner mask, enabling the patient to breathe freely without resistance. This reduces the 'straw effect' seen in other mask systems.

The double nasal mask system effectively protects the dentist and their team from exhaled gases. The soft, autoclavable nasal masks are easy to replace and are available in various sizes for adults and children, as well as different colours and flavours.



Inhalation phase

Delivery of the oxygen-nitrous-mixture.



Exhalation phase

The exhaled gas flows through the oval membrane.





The Baldus® Scavenger System includes a complete tubing set and Baldus vacuum control block with inline flow measurement and regulation valve, along with autoclavable vacuum tubing and adapter. It also comes with:

- 3 x Disposable double nasal masks (Adult, Blueberry Dance)
- 3 x Disposable double nasal masks (Pediatric, Strawberry Delight)



Material: Nasal Masks and Hose Systems – 100% medical silicone (latex-free); Vacuum Control Block and Connectors – 100% synthetic material (latex-free). Compatible with Baldus®, Matrix, Porter, Accutron, and Tecno Gaz devices.

Article Number	Article
16056	Double Mask Scavenger System with Vacuum Control Block, including single-use double nasal masks (3 x Adult, Blueberry Dance aroma and 3 x Pediatric, Strawberry Delight aroma).
16055	Double Mask Scavenger System, including single-use double nasal masks (3 x Adult, Blueberry Dance aroma and 3 x Pediatric, Strawberry Delight aroma) (excluding Vacuum Control Block).

Autoclavable Baldus® Double Nasal Masks

Baldus® Double Mask



Autoclavable outer and inner mask.

Article Number: 16025
Baldus® Double Mask Adult

Article Number: 16031
Baldus® Double Mask Pedo

Does not include connectors

Baldus® Inner Mask



Autoclavable inner mask.

Article Number: 16027Y
Baldus® Inner Mask Adult

Article Number: 16033Y
Baldus® Inner Mask Pedo

Does not include connectors

Baldus® Outer Mask



Autoclavable inner mask with membrane.

Article Number: 16026
Baldus® Outer Mask Adult

Article Number: 16032
Baldus® Outer Mask Pedo

Does not include connectors

Material: Material: Nasal Masks – 100% medical silicone (latex-free). Compatible with: Double mask scavenger systems from Baldus®, Porter, and Accutron; other systems available upon request.

Double Nasal Masks

Single Use



NEW

Compatible with all
nitrous oxide systems

Innovations at a glance.

Design

- Double hood design minimises ambient nitrous oxide in the operatory.
- Oval exhalation valve directs exhaled gases to the inner hood's built-in scavenger flow channels for maximum efficiency.

Profile

- Accurate fit! The inner hood seals to the face for proper gas delivery.
- Size matters! Smaller profile improves sight line visibility for dental staff and access to the oral cavity.

Material

- Soft inner hood enhances seal and patient comfort.
- Clear outer hood sits closer to the face, improving scavenging efficiency and allowing visual monitoring of breathing.
- Latex-free material protects patients and staff with latex allergies.

Compatibility

- Universal fit with other double scavenging circuits, allowing use with existing systems and the new Baldus Double Nasal Hoods.

Available in 6 scents. Each box contains 12 individually packed pieces.



Name	Article No.	Article
Happy Apple	16030-AA	Baldus® Double Nasal Masks Single Use Adult
Blueberry Dance	16030-ABlue 16030-PBlue	Baldus® Double Nasal Masks Single Use Adult Baldus® Double Nasal Masks Single Use Pedo
Bouncy Bubble	16030-ABub 16030-PBub	Baldus® Double Nasal Masks Single Use Adult Baldus® Double Nasal Masks Single Use Pedo
Strawberry Delight	16030-AE 16030-PE	Baldus® Double Nasal Masks Single Use Adult Baldus® Double Nasal Masks Single Use Pedo
Chilla Vanilla	16030-AV 16030-PV	Baldus® Double Nasal Masks Single Use Adult Baldus® Double Nasal Masks Single Use Pedo
Pure Ghost (unscented)	16030-AG 16030-PG	Baldus® Double Nasal Masks Single Use Adult Baldus® Double Nasal Masks Single Use Pedo

Upgrades

Double Nasal Masks. Single Use.



Acrylic Glasses and LED Board for Decorative Presentation of Scented Masks.

- Acrylic Glass with Lid: Includes 12 mixed buttons. Dimensions: 300 x 120 mm.
- LED Board: Designed to hold 3 acrylic glasses. Standard colour: Matt White (RAL 9010); additional colours available upon request. Dimensions: 52.5 x 21.5 x 4 cm. Features RGB LED lighting with remote control. Power supply: 230 V ~ 12 V.

Acrylic Glass with Lid

Happy Apple (Apple)

Blueberry Dance (Blueberry)

Bouncy Bubble (Bubble- gum)

Strawberry Delight (Strawberry)

Chilla Vanilla (Vanilla)

Pure Ghost (Unscented)

LED Board for 3 acrylic glasses

Article No.

16032-A

16032-Blue

16032-Bub

16032-E

16032-V

16032-G

16045



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