

MADE  
IN  
GERMANY

# BALDUS<sup>®</sup>

• *NITROUS OXIDE/  
OXYGEN SEDATION  
SYSTEMS*

INNOVATIVE, COMFORTABLE, SAFE.

**Baldus**  
*Sedation*

[www.baldus-sedation.com](http://www.baldus-sedation.com)



# Dental Nitrous Oxide Sedation

## Anxiety free experience with Nitrous Oxide Sedation

The German Society of Oral and Maxillofacial Medicine estimates that up to 61% 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.\*

We have the solution for you and for your patients:

Inhalation sedation with nitrous oxide and oxygen – is suitable for all ages. Your patient's fear is remarkably reduced and they relax during treatment. Through the quiet treatment atmosphere, your workflow will improve, your work will be faster and more efficient and therefore your income will increase.

Nitrous oxide, or  $N_2O$ , is being used successfully for more than 160 years in dentistry. The mix of  $N_2O$  and  $O_2$  is the safest, most researched and oldest sedative method. It's safe, non-toxic and leaves your body system after treatment. Compared to general anesthesia, the patient is fully conscious, able to communicate and cooperative.

How does nitrous oxide work? During session oxygen and nitrous oxide are mixed in percentage and individually adjusted 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 usual treatment. Finally, the patient inhales 100% oxygen again, and within 15 minutes after session the patient is  $N_2O$  free.

## The advantages of Nitrous Oxide Sedation

- + REDUCTION OF PAIN SENSITIVITY**  
20% nitrous oxide has the same analgesic potency as 15mg morphine sc.
- + EFFICIENT & GENTLE SEDATION**  
No anesthesia – patient is conscious and cooperative.
- + REDUCED GAG REFLEX**  
Decreased gag reflex and retching makes treatment faster and more comfortable.
- + EFFICIENCY & TIME SAVING**  
A fearless and cooperative patient can be treated much more efficiently.
- + TITRATION**  
Optimal sedation by individually adjusted nitrous oxide mixture!
- + ALMOST NO RISKS**  
 $N_2O$  is the sedative with the lowest side effects!
- + NO ADVERSE EFFECTS**  
Gentle sedation. No metabolism (< 0.1 %).  
Recovery occurs within a few minutes.  
Fit to drive within 15 minutes.
- + MILLIONS OF PATIENTS**  
Millions of patients worldwide have been treated with nitrous oxide and have overcome their anxiety from dental treatment. Almost everyone would choose nitrous oxide again.
- + MARKETING & SERVICE**  
Nitrous Oxide Sedation can be a unique selling point for your practice (positive marketing effect).

\* Reference: Müller, Ingrid: Angst essen Zähne auf.  
In: Focus-Gesundheit September/October 2015

**TECHNICALLY SUPERIOR AND POWERFUL:**

# BALDUS® TOUCH



**GERMAN  
INNO  
VATION  
AWARD '19  
WINNER**

**SUCCESS | 2019**  
VORSPRUNG DURCH INNOVATION

## **INNOVATION WELL THOUGHT THROUGH**

The touchscreen is the most obvious innovation when you look at the Baldus Touch. But it is much more than that. The Baldus Touch is the next generation of digital oxygen-nitrous oxide mixers, with new menu functions and innovative system settings. This makes it a groundbreaking innovation in the dental nitrous oxide market.



- » US Patented **US Patented No. 10,065,159 B2**
- » Intuitive easy to use touchscreen
- » Automatic safety and check features
- » Patient documentation feature
- » Powerful with a maximum flow rate of 18L / min.
- » Maximum compatibility
- » Acoustic and visual information signals

- » Integrated error and assessment memory
- » Shorter response times of the device

### **CREATED FOR SAFETY AND HYGIENE**

- » Automatic integrated safety features
- » Hygienic design



• **MORE MODERN TECHNOLOGY  
AT YOUR FINGERTIPS  
MORE FEATURES  
MORE SAFETY**

### **DOUBLE HONORS**

- » German Innovation Award: This highly coveted merit-based award we received in 2019 for Excellence in Business to Business

- » Success 2019: Award for Innovation, given by the Investment and Structural Bank of Rhineland-Palatinate.
- » The Best and most Meaningful award are our many satisfied customers, who are already working with this next generation of dental nitrous oxide sedation.

## The world debut Baldus® Touch

### Timeless elegance combined with high technology – the Baldus® Touch.

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.

#### + US PATENTED

#### + HIGH-TECHNOLOGY

- **Touch-function** with a brilliant screen resolution.
- **Easy documentation** for the patient's treatment parameters and patient's ID.
- **Thermic measurement** works essentially independent from pressure and temperature, so therefore guaranties a shorter reaction time.
- **Software & Hardware Watchdog** guaranty safety.

#### + BALDUS® TOUCH FEATURES

- **Recovery button:** at the end of all sedation treatments the recovery button is pushed, which will produce a flow of 100 percent oxygen and a countdown will start.
- **Error memory:** in the documentation memory there is an error memory, which records the last 20 erros, which can be used for an analysis with the dentist and the Baldus service team.
- **Maximum total flow of 18 l/min:** The breathing bag will always be filled sufficiently, especially for patients with anxiety problems or patients with a bigger lung volume.

#### + HIGH 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 O<sub>2</sub>-Flush-Button** for immediate, 100% oxygen supply.
- **Non-rebreathing valve** on the Bag-T.
- **Ambient air valve** on the Bag-T.
- **O<sub>2</sub> Demand Mask-Port.**
- **Standard coding of the gas types.**

## » The 21<sup>st</sup> Century Mixer Unit The Baldus® Touch



#### + 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.

---

**ELEGANT DESIGN, INTUTIVE TO USE:**

# BALDUS® ANALOG

## **ORIENTED TOWARDS PRACTICAL NEEDS**

The Baldus Touch convinces with extremely robust and resistant materials and many functions, which are highly valued by users in everyday situations. It fits perfectly into any modern practice design. And establishes trust in the patient.

- » Tamper-proof
- » Optimal maximum flow rate of 15L / min.
- » Acoustic warning tone
- » Rapid O2 supply via flush button
- » N2O concentration easy to read
- » Intuitive one-button operation



## **CREATED FOR SAFETY AND HYGIENE**

- » Maximum resilience
- » Extremely durable and easy to care for
- » Clever, hygienic design

---

# ***EXTRA COMFORT WITH THE BALDUS® DOUBLE MASK SCAVENGER SYSTEM***

## ***SIMPLY DEVELOPED FOR THE PRACTICE***

The new Baldus double mask scavenger system integrates more than 20 innovations and improvements. We were able to analyze and learn from other systems, make improvements and integrate the needs of our customers into our exceptional double mask and scavenger system. Take advantage of the secure and amazingly efficient Baldus double mask scavenger system – developed and manufactured in Germany!

## ***SIMPLY DEVELOPED FOR THE PRACTICE IN MIND***

- » Lowest profile double mask
- » More treatment handling free space
- » Easy to use
- » Perfect fit of the mask
- » Compatible with all other nitrous oxide systems
  
- » **Patent No. D875240**
- » **Patent No. D875239**
- » **Patent No. D875238**



## ***SUSTAINABLE IN EVERYDAY LIFE, ECONOMICAL AND SAFE***

- » Fully autoclavable
- » Perfect fit with an optimal seal
- » Efficient gas evacuation
- » Safe for the practice staff
- » Low room air contamination

## ***MAXIMUM COMFORT FOR THE PATIENT***

- » High patient compliance and acceptance
- » Free breathing
- » Soft, latex-free material
- » No uncomfortable pressure points
- » Natural fragrances, that delight every nose





## + MATERIAL

- Use of translucent, soft and supple silicone.
- Latex free and autoclavable.
- Biocompatibility confirmed.

## + PATIENT COMFORT

- The userfriendly material prevents uncomfortable pressure marks on the skin of the patient.
- An oval membrane allows a minimal resistance during exhaling, which ensures a better and easy discharge exhaled gases.
- Thanks to the bigger volume of the inner masks, which allows optimal flow for the patient's inhaling and exhaling.

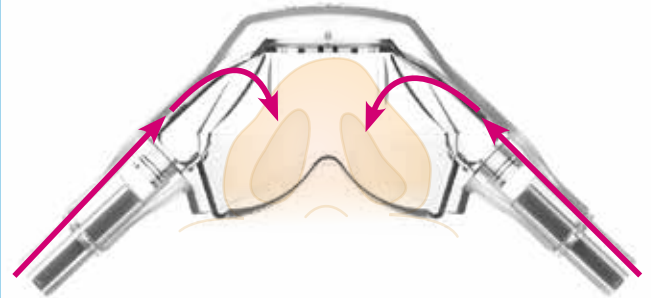
### Operating mode of the mask system:

How does the Baldus® Scavenger Breathing System work? Because of the exhalation in the inner mask the membrane opens and the exhaled gas enters the outer mask. The suction in the outer mask is separate from the inner mask, so the patient can breathe without resistance. This reduces the straw effect from other mask systems.

The double nasal mask system protects the dentist and his team successfully from the exhaled gas. The supple, autoclavable nasal masks are easy to change and available for adults and children, which are available in different colours and scents: Blueberry Dance, Bouncy Bubble, Happy Apple, Strawberry Delight and Chilla Vanilla.

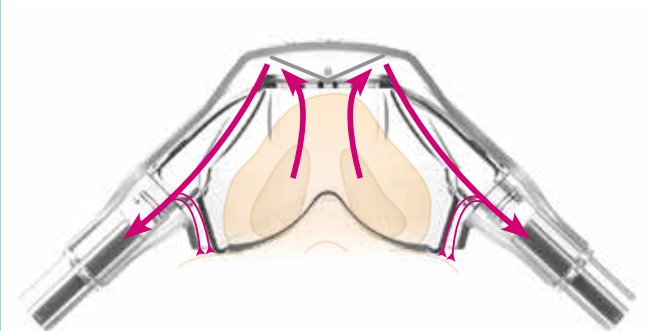


## Baldus® Double Mask Scavenger System



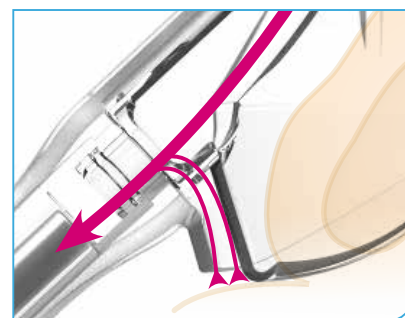
### Inhalation Phase

Delivery of the oxygen-nitrous-mixture.



### Exhalation Phase

The exhaled gas flows via the oval membrane and the aerodynamic located channels optimal to the vacuum channel.



### Exhalation Phase

Minimized loss of N<sub>2</sub>O molecules because of the accurate fitting. The few molecules that leave the sealed Baldus® inner mask are sucked off from the unique deep-fitted Baldus® outer mask via the vacuum.

**Baldus Sedation GmbH & Co. KG**

Auf dem Schafstall 5  
56182 Urbar / Germany

**T** +49(0) 261 / 96 38 926 – 0

**E** [info@baldus-sedation.com](mailto:info@baldus-sedation.com)

**W** [www.baldus-sedation.com](http://www.baldus-sedation.com)

