

# *Dental Specification Sheet*



**eAdvantage<sup>®</sup>**  
Analgesic Gas Mixing and Delivering System

# Laughing Gas Taken Seriously

The O-Two eAdvantage® System offers significant benefits to the dental industry by modernizing nitrous oxide delivery with advanced electronic sensors that synchronize gas flow with the patient's breathing. This demand-flow technology ensures gas is delivered only during active inhalation, enhancing patient safety and comfort while reducing waste and environmental impact. Its low-resistance design also minimizes the work of breathing, making sedation more comfortable for patients—especially children and those with respiratory sensitivity. In addition to improving the patient experience, the system supports cost savings and environmental responsibility by preventing unnecessary gas usage.

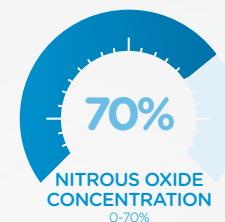
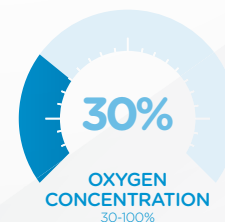


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## Data Management

The data logging and transfer capability (via the USB sync port) increases productivity and information sharing, resulting in less downtime for the healthcare provider and improved care for the patient.



## Nitrous oxide and Oxygen concentration

Variable gas concentration provides for effective titration to patient analgesia requirements.

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## A Safer, Smoother Dental Experience for Patients of All Ages

Nitrous oxide modulates pain perception and suppresses anxiety while maintaining patient consciousness and responsiveness. Its rapid onset and rapid clearance make it an ideal choice for both routine and complex dental interventions, ensuring a seamless transition from treatment to recovery, making it ideal for patients of all ages.

Beyond its analgesic and anxiolytic effects, clinical research highlights additional therapeutic advantages, including:

- **A Wise Pain Management Approach**

By providing effective analgesia N<sub>2</sub>O offers a non-invasive alternative for pain and anxiety relief, particularly benefiting patients with needle phobia or those hesitant about local anesthesia.

- **Reduction of the Gag Reflex Sensitivity**

Patients with a hypersensitive gag reflex often struggle with intraoral procedures such as dental impressions, digital scans, and radiographic imaging. N<sub>2</sub>O can help reduce involuntary gagging, making these procedures more tolerable and improving treatment success.

- **Modulation of Sensory Perception**

Nitrous oxide has been shown to change intraoral tactile and taste sensitivity, which may help patients with heightened oral discomfort tolerate dental procedures more comfortably.

### GAS OUTPUT & MONITORING PORT

Patient output port for mixed gases. Monitoring port allows precise and sensitive monitoring.

### POWER CHARGER CONNECTOR

Medical grade connector with safety lock mechanism.

### OXYGEN & NITROUS OXIDE INPUTS

The non-interchangeable swivel input connections rotate to easily adjust to your needs. Input pressure range from 50 up to 70 PSI.



Gas Source	Compressed Oxygen + Nitrous Oxide
Circuit Control Source	Electronic
Pneumatic circuit Gas consumption (L/min)	0.00
Maximum Flow Rate (L/min)	>260 combined or 160 from oxygen input only
Oxygen concentration (O <sub>2</sub> %)	30-100 % continuous adjustment with 5% incremental changes
Trigger sensitivity (cm H <sub>2</sub> O)	- 1.0 (non-adjustable)
Input Pressure range (PSI)	50-70
Inhalation resistance (cm H <sub>2</sub> O)	0 to -6
Exhalation resistance (cm H <sub>2</sub> O)	0 to 6
Purge Flow rate (L/min)	40 (Oxygen)
Operating temperature (°C)	5 to 40
Relative humidity	15% to 95%
Storage temperature (°C)	-20 to 60
Device emergency shut off	Below 20 PSI O <sub>2</sub> input   Below 25% O <sub>2</sub> output w/ 3 consecutive breaths or below 21% O <sub>2</sub> output immediately   Sensors and/or valve failure
Battery	Li-Ion (01CV9200)   Operating time 15-24 hrs
A/C power adapter	100-250V / 4.74A
Display	4.3" Color TFT
Data Storage and Transfer	Yes
USB	Yes (for Data Transfer & Software Update)
Live Monitoring	Alarms and setting only
Parameter Settings	Control Knob
Lock Key Function	Yes w/ passcode
Dimensions (mm)	305 x 210 x 130
Weight With & W/O Battery (KG)	2.80 & 2.20

## Alarms (Visual And Audible)

High , Low Or No Input Gas Supply Pressure  
Low Battery  
Out Of Tolerance Gas Mixture  
Device Malfunction

Valves Leak  
Return For Service  
Audible Alarm Frequency  
Audible Silence

## Ordering information

<b>01EQ3000</b>	eAdvantage® Adjustable Analgesic Gas Mixing and Delivery System with Supply Hoses (c/w DISS O <sub>2</sub> and N <sub>2</sub> O), Single-Use Patient Circuit with Scavenger Hose and Adapter with Mouthpiece	Each
<b>01CV8037-CS</b>	Single-Use Patient Circuit with Scavenger Hose, monitoring line and Adapter with Mouthpiece	Case/10
<b>02RT1303</b>	Disposable Mouthpiece (Individually Wrapped)	Case/50
<b>02FM4999-CS</b>	O-Two universal mask	Case/12



THIS PRODUCT HAS A TWO YEAR WARRANTY AGAINST MANUFACTURER DEFECTS.

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