o_two controlled™ ventilation

# Dental Specification Sheet




## eAdvantage®

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.






## eAdvantage®

Analgesic Gas Mixing and Delivery System

### 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.

**30%**
**OXYGEN CONCENTRATION**
30-100%

**70%**
**NITROUS OXIDE CONCENTRATION**
0-70%

### 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 $N_2O$ 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. $N_2O$ 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 ($O_2$ %) | 30-100 % continuous adjustment with 5% incremental changes |
| Trigger sensitivity (cm $H_2O$) | ~ -1.0 (non-adjustable) |
| Input Pressure range (PSI) | 50-70 |
| Inhalation resistance (cm $H_2O$) | 0 to -6 |
| Exhalation resistance (cm $H_2O$) | 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 $O_2$ input \| Below 25% $O_2$ output w/ 3 consecutive breaths or below 21% $O_2$ 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

| | | |
|---|---|---|
| **01EQ3000** | eAdvantage® Adjustable Analgesic Gas Mixing and Delivery System with Supply Hoses (c/w DISS $O_2$ and $N_2O$), Single-Use Patient Circuit with Scavenger Hose and Adapter with Mouthpiece | Each |
| **01CV8037-CS** | Single-Use Patient Circuit with Scavenger Hose, monitoring line and Adapter with Mouthpiece | Case/10 |
| **02RT1303** | Disposable Mouthpiece (Individually Wrapped) | Case/50 |
| **02FM4999-CS** | O-Two universal mask | Case/12 |



01EA6004
eAdvantage Cart with 4 cylinder holders
Each

THIS PRODUCT HAS A TWO YEAR WARRANTY AGAINST MANUFACTURER DEFECTS.

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