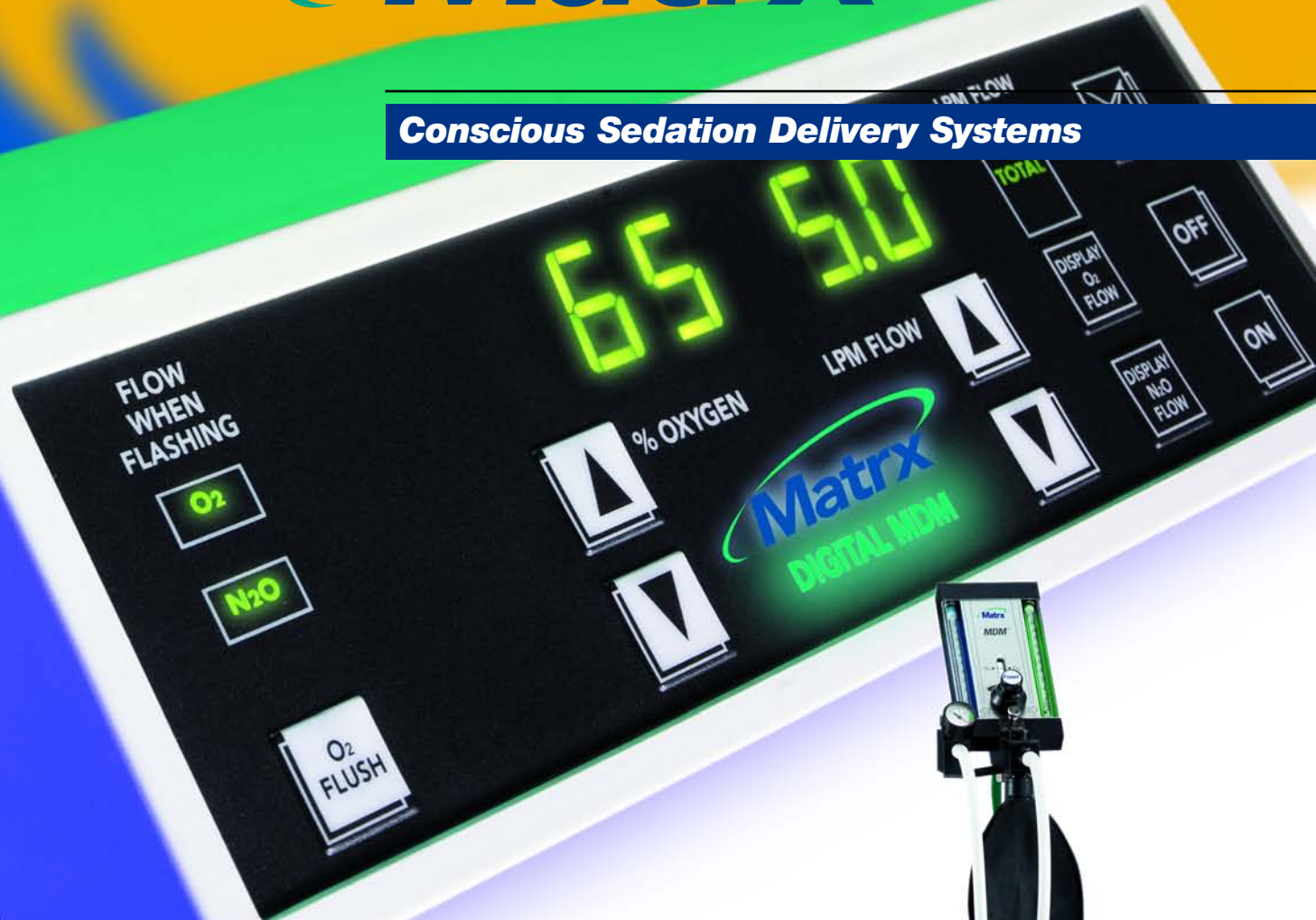


Matrix

Conscious Sedation Delivery Systems



***For over 40 years,
the leader in
nitrous oxide
equipment technology.***





Over 40 years ago Fraser Sweatman pioneered the technology used for safe delivery of nitrous oxide and oxygen sedation. Now, as Matrix, that same vision and innovation keeps us a leader in the field of nitrous oxide/oxygen delivery as evidenced by the development and production of the Digital MDM, the most accurate conscious sedation unit made today.

The Nitrous Oxide Advantage

- Attract patients by offering safe, effective, pain management
- Save time - rapid onset and recovery
- Save money – patients are less anxious resulting in fewer cancelled appointments
- Able to titrate drug to allow precise and incremental control of delivery with no waste
- Relaxed patients remain fully conscious and able to respond to directions
- Easy to administer and control

The Matrix Advantage

- Matrix owns the first patent issued on a percentage mixer
 - Matrix MDM® and Digital MDM® flowmeters are designed for titration
 - Matrix is the first ISO-9001 certified manufacturer of nitrous oxide delivery systems for the dental industry
 - For over 40 years, Matrix has been a leader in dental equipment research and technology
-

Digital MDM®

Digital MDM® is the ONLY digital mixer available today. It features the exclusive Matrix flow and percentage Auto-Compensation and is so accurate that it will measure and control flow rates as low as 0.1 lpm. Plus, its unique flat screen flowmeter is made to allow for optimal asepsis control. The Digital MDM is available in portable (stand) mount, wall mount, counter top and flush (cabinet) mount configurations.



Digital MDM® Specifications

Standard Head Dimensions: (H x W x D)	5.5"(14cm) x 8"(20.3cm) x 10"(25.4cm)
Portable Stand Dimensions: Overall Height Tall Stand: Overall Height Short Stand: Stand Width at Base:	50"(127cm) max. - 40"(101.6cm) min. 35"(88.9cm) max. - 25"(63.5cm) min. 22"(55.9cm)
Flush Mount Dimensions (H x W x D) W/Small Bezel W/Large Bezel W/Large Bezel & O ₂ Outlet	4.25"(10.8cm) x 9.7"(24.6cm) x 6.5"(16.5cm) 4.25"(10.8cm) x 12.6"(32cm) x 6.5"(16.5cm) 4.25"(10.8cm) x 12.6"(32cm) x 6.5"(16.5cm)
Weight of Standard Head	6 pounds (2.7 kg)
Mixed Gas Outlet Diameter	15mm ID / 22mm OD nominal
Oxygen Inlet	Male DISS (CGA-1240)
Nitrous Oxide Inlet	Male DISS (CGA-1040)
Inlet Pressure (Each Gas)	50-55 psi
Oxygen Mix Ratio Range	30% - 100%
Flow Range Maximum	9.9 lpm
Oxygen Flow Range	1 - 9.9 lpm
Nitrous Oxide Flow Range	0 - 7 lpm
Input Supply Voltage	115 VAC nominal*
Line Frequency	60 Hertz*

*International models also available



Flush Mount Unit

Patent D451,596



Fraser MDM®

The only pneumatic mixer with Auto-Compensation to maintain flow rate when you change gas mixture percentage. Also maintains percentage when you change flow rate. Available in portable (stand) mount, wall mount, under counter mount and flush (cabinet) mount configurations.

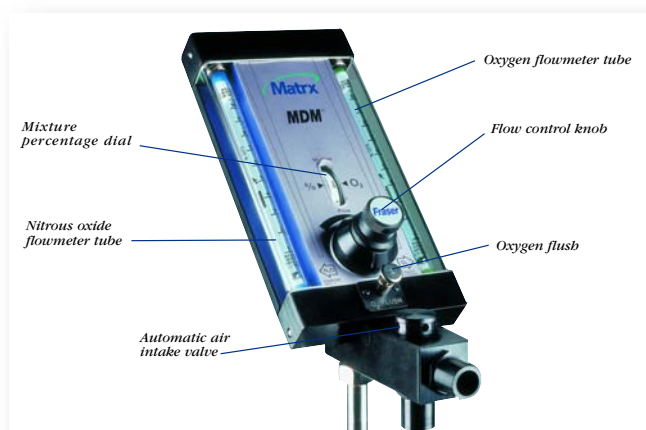


Fraser MDM® Specifications

Standard Head Dimensions: (H x W x D)	9.75"(24.8cm) x 5"(12.7cm) x 12.5"(31.8cm)
Portable Stand Dimensions: Overall Height - Tall Stand Overall Height - Short Stand Stand Width at Base	54"(137.2cm) max. - 44"(111.8cm) min. 39"(99.1cm) max. - 29"(73.7cm) min. 22"(55.9cm)
Flush Mount Dimensions: (H x W x D)	12.75"(32.4cm) x 6.25"(15.9cm) x 6"(15.2cm)
Weight of Standard Head	7 lbs. (3.2kg)
Weight of Flush Mount Head	14 lbs. (6.4kg)
Mixed Gas Outlet Diameter	15mm ID / 22mm OD nominal
Oxygen Inlet	Male DISS (CGA-1240)
Nitrous Oxide Inlet	Male DISS (CGA-1040)
Inlet Pressure (Each Gas)	50-55 psi
Oxygen Mix Ratio Range	30% - 100%
Oxygen Flow Range	1 - 10 lpm
Nitrous Oxide Flow Range	1 - 10 lpm



Patent 3,739,699



Fraser RA[®]

The relative analgesia machine designed with a built-in fail-safe that guarantees a minimum delivery of 3 lpm of oxygen. Available in portable (stand) mount, wall mount and under counter mount configurations.

RA[®] Specifications


Standard Head Dimensions: (H x W x D)	9.75"(24.8cm) x 5"(12.7cm) x 12.5"(31.8cm)
Portable Stand Dimensions: Overall Height Tall Stand: Overall Height Short Stand: Stand Width at Base:	54"(137.2cm) max. - 44"(111.8cm) min. 39"(99.1cm) max. - 29"(73.7cm) min. 22"(55.9cm)
Weight of Standard Head	7 lbs. (3.2 kg)
Mixed Gas Outlet Diameter	15mm ID / 22mm OD nominal
Oxygen Inlet	Male DISS (CGA-1240)
Nitrous Oxide Inlet	Male DISS (CGA-1040)
Inlet Pressure (Each Gas)	50-55 psi
Oxygen Flow Range	3 - 10 lpm
Nitrous Oxide Flow Range	0 - 7 lpm





Portable Units

Product Features

	Oxygen fail-safe	Minimum concentration of 30% oxygen	Automatic air intake valve	Non-rebreathing circuit	Auxiliary oxygen outlet	D.I.S.S. gas connections	Oxygen flush		Five-leg base	Flow Auto-Compensation	Mixture Percentage Auto-Compensation	Built-in pressure or flow compensation	Audible and visual alarm system
Digital MDM®	●	●	●	●	●	●	●	●	●	●	●	●	●
Fraser MDM®	●	●	●	●	●	●	●	●	●	●	●	●	
Fraser RA®	●	●	●	●	●	●	●	●	●				
	<i>If the oxygen supply is interrupted or inadvertently cut off, the flow of nitrous oxide will immediately discontinue.</i>	<i>Will not provide oxygen concentration below 30%.</i>	<i>If the contents of the breathing bag are depleted, the air intake valve automatically opens to provide room air to the patient.</i>	<i>A check valve in the mixed gas outlet protects the patient from rebreathing exhaled gases.</i>	<i>An outlet is provided for the attachment of the optional "3-in-1" Demand Valve Resuscitator.</i>	<i>Gas connections conform to the industry standard diameter indexed safety system (D.I.S.S.)</i>	<i>An integrated oxygen flush button conveniently located on the front of the unit provides an immediate increase in oxygen flow to the reservoir bag.</i>	<i>The only mixer that automatically delivers 100% oxygen during flush by electronically discontinuing the flow of nitrous oxide.</i>	<i>For added stability, all portable units now come with a five-leg base.</i>	<i>The only gas mixer technology that maintains flow when you change gas mixture percentage and maintains percentage when you change flow rate.</i>	<i>The only gas mixer technology that maintains percentage when you change flow rate and maintains flow rate when you change gas mixture percentage.</i>	<i>Prevents variation in mixture should either gas "supply" pressure fluctuate while the unit is in use.</i>	<i>Has a complete alarm package featuring Oxygen/Nitrous Oxide Supply Failure Alarms, 1 lpm Oxygen Limit Alarm, and a Flush Flow Low Alarm.</i>

Wall Mount Options



Matrix is an industry leader in the development of technology for the delivery and administration of nitrous oxide. Matrix can provide all of your nitrous oxide/oxygen equipment needs.



*Flo-Safe Manifold
(for built-in central gas supply)*



A.N.S. Scavenger



Flo-Safe Alarm Panel



*DynoMite™ Scented, Single-use
Nitrous Scavenger Nasal Hoods*



Outlet Station



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