Anesthesia Machine

DATEX-OHMEDA EXCEL 210 MRI

ABOUT

The **Datex-Ohmeda Excel 210 MRI** Anesthesia Machine is designed for safe and efficient delivery of anesthesia in MRI environments. Constructed with non-ferrous materials, it ensures compatibility with MRI systems, minimizing interference while maximizing safety. This anesthesia machine supports oxygen, nitrous oxide, and air, with the ability to connect to both pipeline and cylinder gas supplies. Its compact design, combined with advanced safety features like the Link 25 Proportion Limiting System and audible low oxygen supply alarms, makes it a dependable choice for healthcare providers working in MRI suites. With options for various accessories and vaporizers, the Excel 210 provides flexibility for a wide range of clinical needs.

FEATURES

MRI Compatibility: Designed with non-ferrous materials to prevent interference with MRI systems. Tested near 1.5 Tesla units with magnetic fringe fields below 0.23 Tesla.

Triple Gas Support: Accommodates oxygen, nitrous oxide, and air with connections for pipeline and cylinder supplies.

Safety Features: Includes the Link 25 Proportion Limiting System for oxygen/nitrous oxide mixtures, low oxygen supply alarms, and interlocks to prevent multiple vaporizers from operating simultaneously.

Flexible Vaporizer Options: Compatible with Tec 4 and Tec 5 vaporizers (keyed or funnel fill).

Convenient Design: Compact frame with full-length dovetail mounting for accessories, large casters, and integrated brakes.

DIMENSIONS

Height: 66 in (168 cm)

Width: 29 in (73.6 cm)

Depth: 30 in (76 cm)

Weight: 206 lbs (93.5 kg)

Casters: 5in (12.7 cm)

Top Shelf: 23.5 x 14.2 in (59.7 x 36 cm)

Middle Shelf: 11.4 x 12.4 in (29 x 31 cm)

Table-Top: 21.7 x 11.7 (55 x 29 cm)

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SPECIFICATIONS

COMMON GAS OUTLET

Equipped with a latching, positive engagement, bayonet type connector. The common gas outlet connector will also accept standard 22 mm OD or 15 mm ID conical friction fit connectors

PNEUMATICS

Pipeline Input: 345 kPa (50 psig) pipeline supply required. DISS indexed connections for O2, N2O and air. Pipeline filter and check valve.

Cylinder Input: CGA pin indexed yokes; Input filter and check valve; Primary regulator output: nominal 310 kPa (45 psig); Primary regulator diaphragm min burst pressure: 1,750 kPa (250 psig)

Maximum Output: Pressure relief valve set to: 517.5 kPa (75 psig)

Shut-off Valves: Shut-off valves stop all other gas flows if oxygen supply pressure falls to approximately 138 kPa (20 psig).

Flowmeter Module

- 02 Flow Range: Double Tube 0.2-0.95 l/min and 1.0 l/min-10 l/min; Minimum O2 flow 200 ml/min.
- N20 Flow Range: Double Tube 0.04-0.9 l/min and 1.0 l/min-10 l/min; Single Tube 1-15 l/min.

Common Gas Outlet Relief Valve: 27.6 to 38 kPa (4.0 to 5.5 psig) at minimum flow.

Low O2 Pressure Alarm: pressure alarm: An alarm sounds for at least seven seconds if the O2 supply falls below approximately 207 kPa (30 psig); range: 186 to 228 kPa (27 to 33 psig).

Oxygen Flush Button: Recessed, self-closing push button provides a flow of 45-70 l/min when fully depressed

5125 O2 MONITOR SPECIFICATIONS

Range: 0-100% O2

Display Resolution: 1%

Display Update: Three times per second

Alarms: Audible and visual alarms for: high and low O2, low battery, sensor malfunction or disconnection, internal malfunction.

Response Time: Typically 20 seconds for 90% of total change in O2 concentration at 25°C (77°F).

Drift Range: ±1% in eight hours

Linearity: ±1% of full scale

Accuracy: ±3% of full scale

Sensor Cartridge Life: One year at 50% O2; six months at 100% O2 at 25°C (77°F); Exposure to high CO2 concentrations or elevated temperatures will shorten sensor life.

Battery: Non-magnetic, 3.9 Vdc lithium battery; Nominal battery life expectancy is 600 hours.

Self Tests: Manual (test switch) and automatic