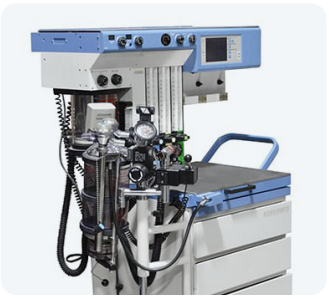
Anesthesia Machine

DRAGER NARKOMED GS

ABOUT

The **Drager Narkomed GS** anesthesia machine is a dependable solution for surgical centers and hospitals, offering essential features to support safe and effective anesthesia delivery. With an intuitive interface, built-in safety mechanisms, and a compact design, this system provides anesthesiologists with precise control over ventilation and gas delivery. Designed for durability and ease of use, the Narkomed GS helps streamline workflows while ensuring patient safety during procedures.



FEATURES

Integrated AV2+ Ventilator: Offers volume and pressure control ventilation modes to accommodate various patient needs and surgical requirements.

Dual-Cylinder Yoke System: Supports oxygen and nitrous oxide cylinders, ensuring a continuous and reliable gas supply.

Precision Vaporizers: Built-in vaporizers provide accurate agent delivery, enhancing anesthesia control for optimal patient care.

Oxygen Failure Protection: Automatic cut-off mechanism ensures patient safety by preventing the delivery of hypoxic gas mixtures.

Spacious Work Surface: Large tabletop and built-in storage drawers provide ample space for tools and accessories, improving efficiency.

Compact and Mobile Design: The unit's streamlined footprint and sturdy casters allow for easy maneuverability within the operating room.

Breathing System Compatibility: Designed to integrate seamlessly with standard breathing circuits, ensuring operational flexibility.

DIMENSIONS

Height: 53.5 in (136 cm)

Width: 36 in (91 cm)

Depth: 27 in (69 cm)

Weight: 375 lb (170 kg)

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SPECIFICATIONS

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GAS DELIVERY SYSTEM

Pipeline inlet connections: DISS/male; Nut with nipple (Canada)

Pipeline inlet Pressure: 50–55 psi (345–380 kPa) (O2, N2O, Air)

Pipeline Gauge Accuracy:

- ±3 psi (0–25 psi)
- ±2 psi (26–75 psi)
- ±3 psi (76–100 psi)

Cylinder Connections: Pin-indexed hanger yokes (CGA V-1-1994)

Regulator Safety Relief Valve: 95 psi (655 kPa)

Regulator safety relief valve (Canada): 75 psi (520 kPa) (CSA Standard Z168.3-M84)

Fresh Gas Common Outlet: 15 mm female (Canada: 15 mm female, 22 mm male)

Fresh Gas Oxygen Concentration (ORC): 25 ±4%

Oxygen flush flow rate: 55 (±10) l/min

Minimum Oxygen Flow (At 50 PSI Pipeline Pressure): 150 ±50 ml/min

Low Oxygen Supply Pressure Alarm: 34–40 psi

Cylinder gauge accuracy: ±90 psi (0–750 psi)

VAPORIZERS (VAPOR 19.1 AND 19.3)

Temperature Range: +15–35°C (at normal atmospheric pressure of 760 mmHg)

Flow Range: 0.25–15 l/min

Maximum Pressure Load: 150 mmHg (above atmospheric)

Maximum Angle of Inclination: 45°

Weight: approximately 7.5 kg

HALOTHANE VAPORIZER

Adjustment Range: 0.2–5 vol%

Accuracy: ±0.15% concentration (volume) or ±15% (whichever is higher)

ENFLURANE VAPORIZER

Adjustment Range: 0.3–7 vol%

Accuracy: ±0.2% concentration (volume) or ±20% (whichever is higher); +20%/-30% with flow settings 6.0–15 l/min and handwheel settings higher than 5.0% volume concentration

ISOFLURANE VAPORIZER

Adjustment Range: 0.2–5 vol%

Accuracy: ±0.15% concentration (volume) or ±15% (whichever is higher)

SEVOFLURANE VAPORIZER

Adjustment Range: 0.3–8 vol%

Accuracy: ±0.2% concentration (volume) or ±20% (whichever is higher)

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SPECIFICATIONS

VENTILATOR

Frequency: 1–99, ±1 BPM (in 1 BPM increments)

I:E Ratio: Standard range: 1:1–1:4.5, ±0.1 (in increments of 0.5); Extended range: 4:1, 3:1, 2:1

Inspiratory Flow: 10–100 l/min (uncalibrated)

Tidal Volume: 20–1500 ml, ±100 ml

Pressure Limit Control Adjustment Range: 15–120 cm H2O

ABSORBER SYSTEM

Inspiratory Valve: Mounting ring nut size: M35 x 1; Hose terminal: 22 mm male

Expiratory Valve: Mounting ring nut size: M33 x 1; Hose terminal: 22 mm male

PEEP Valve (optional): Range: approx. 2–15 cm H2O (continuously adjustable)

Breathing System Pressure Gauge: Range: -20 to +80 cm H2O;Smallest scale division: 2 cm H2O; **Nominal Accuracy:** -20 to +5 cm H2O: 3% FS; +5 to +55 cm H2O: 2% FS; +55 to +80 cm H2O: 3% FS; Mounting ring nut size: 1 1/8 x 18

APL Valve: Nominal low flow resistance: 2 cm H2O at 8 l/min; Hose terminal: 19 mm male

Breathing Bag Terminal: Bag terminal: 22 mm male

OXYGEN MONITORING

Range: 10–100 vol % O2

Resolution: 1 vol % O2

Accuracy: ±3 vol % O2 (When calibrated within 18 hours, and constant temperature and pressure)

Response Time: ≤ 25 sec (T90)

Zero Drift: ≤ 0.1 vol % O2/month

Span Drift: ≤ 1 vol % O2/8 hours

OXYGEN MONITORING CONTINUED

Temperature Error: ≤ ±3% of reading (15° to 40°C)

Sensor Service Life: ≥ 8 months at 25°C, 50% relative humidity, 50% O2 gas mixture (or ≥5000% hour CO2)

BREATHING PRESSURE MONITORING

Numeric Display Range: -10–125 cm H2O

Resolution: 1 cm H2O

Accuracy: ±3 cm H2O or ±10% of reading, whichever is greater

Waveform Display Range – Full: 0–100 cm H2O

Waveform Resolution: 1 cm H2O

Waveform Accuracy: ±3 cm H2O or ±10% of reading, whichever is greater

Waveform Display Scales: 0–20, 0–50, 0–100 cm H2O

RESPIRATORY VOLUME MONITORING

Minute Volume: Display Range: 0.1–50.0 l; Resolution: 0.1 l; Accuracy: 10% of reading or 0.01 l x breath rate, whichever is greater*

Tidal Volume: Display Range: 0.01–2.0 l (Note: the standard bellows will deliver up to 1.5 l); Resolution: 0.01 l; Accuracy: 10% of reading or 0.015 l, whichever is greater; Volume Apnea Threshold: 0.02 l

Respiratory Rate: Numeric display range: 2–99 bpm; Resolution: 1 bpm; Accuracy: ±10% of reading or 1 bpm, whichever is greater

SERIAL INTERFACE

Type: RS-232/422