



The Narkomed MRI is a unique anesthesia system. It is the sole machine with an integrated ventilator and VPO monitor designed and engineered to perform without distance or electromagnetic restrictions in shielded or unshielded MRI environments of up to 3.0 Tesla. This feature enables operation with minimum space required between the patient and the machine. This space advantage can be a very relevant consideration when scanning pediatric and neonatal patients.

The strong magnetic fields which generate detailed patient images can be the source of substantial problems with standard anesthesia equipment. Even in direct contact with the MRI, the Narkomed MRI works dependably and creates no detectable image distortion. The Narkomed MRI combines an integrated electronic ventilator and an integrated exhaled volume, airway pressure and oxygen monitor in one compact unit

Features

- Ventilator: Ascending bellows pneumatic double-circuit AV2+ style ventilator without tidal volume compensation. Modes volume control (VCV), Manual/Spontaneous. Mechanical bag/vent switch.
- Machine checklist: Manual FDA-style checklist.
- Flowmeters: Traditional needle valve with glass flowtube display.
- Breathing circuit: Traditional absorber head. The breathing circuit is higher volume (dual absorbent canisters). May use loose granules or prefilled canisters. May be used with non-rebreathing circuits.
- Electrical power failure: Most functions except patient monitoring are preserved during power failure, as this is a basic pneumatic-mechanical machine.



Specifications

Dimensions

Dimensions: (W xHxD) 31.5" x 53" x 27" (80 x 135.3 x 68.6 cm)
 Weight: 230 lbs (104.3 kg)
 Weight of Battery Charger: 3 lbs (1.36 kg)

Electricity

120 Volt Power Supply 100 - 120 VAC @ 50/60 Hz
 220/240 Volt Power Supply 200 - 240 VAC @ 50/50 Hz

Battery

Reserve Power Time " 3 hours
 Charging Time " 16 hours

Gas Delivery System

Number of Gases 3 gas capability (O2, N2O, Air)
 Oxygen Flush Flow Rate 55 L/min
 Low Oxygen Supply
 Pressure Alarm 34 - 40 psi

Vaporizer

Vapor 2000
 Positions 2
 Mounting Fixed

Ventilator

AV 2+
 Frequency 1 - 99 (in 1 BPM increments)
 I:E Ratio 4:1 -1: 4.5
 Inspiratory Flow 10 -100 L/min
 Tidal Volume 20 -1500 mL
 Pressure Limit Adjustment 15 -120 cmH2O

Oxygen Monitoring

Display Range 10 -100%
 Resolution 1 vol% O2

Airway Pressure Monitoring

Display Range -10 to 125 cmH2O
 Resolution 1 cmH2O

Tidal Volume Monitoring

Display Range .01 - 2.0 L
 Resolution 0.01 mL

Utility Requirments

System operates with 120 VAC @ 50/60 Hz electrical source.
 Regulator assemblies and yokes for external O2 and N2O cylinders.
 O2, N2O and Air hoses for connecting pipeline sources to DISS machine connections.

Tests with MRI Scanners of up to 3.0 Tesla (shielded or unshielded)

Testing done with unit touching the MRI.

