

Narkomat⁺

TECHNICAL DATA

General specifications

Dimensions (H x W x D)	1530 x 915 x 795 mm
Weight (basic unit)	approx. 135 kg
Storage temperature	-5° – +50° C
Working temperature	+10° – +35° C

Electrical connection

Power supply	230 V / 50 Hz
Interface	IR
Battery supply	approx. 30 min
Additional sockets	2

Gas supply

Central gas supply	NIST, DISS or other
Oxygen (O ₂)	280 - 600 kPa
Compressed air (Air)	280 - 600 kPa
Nitrous oxide (N ₂ O)	280 - 600 kPa
Reserve bottles (optional)	2 l or 10 l

Fresh gas dosing

Fresh Gas Dosing	6x measuring tube block:
O ₂	0,1 - 1 / 1,5 - 10 l/min
N ₂ O	0,1 - 1 / 1,5 - 10 l/min
Air	0,1 - 1 / 1,5 - 10 l/min
Ratio-System	integrated (min. 25 vol% O ₂ in fresh gas)

Patient module / circuit system

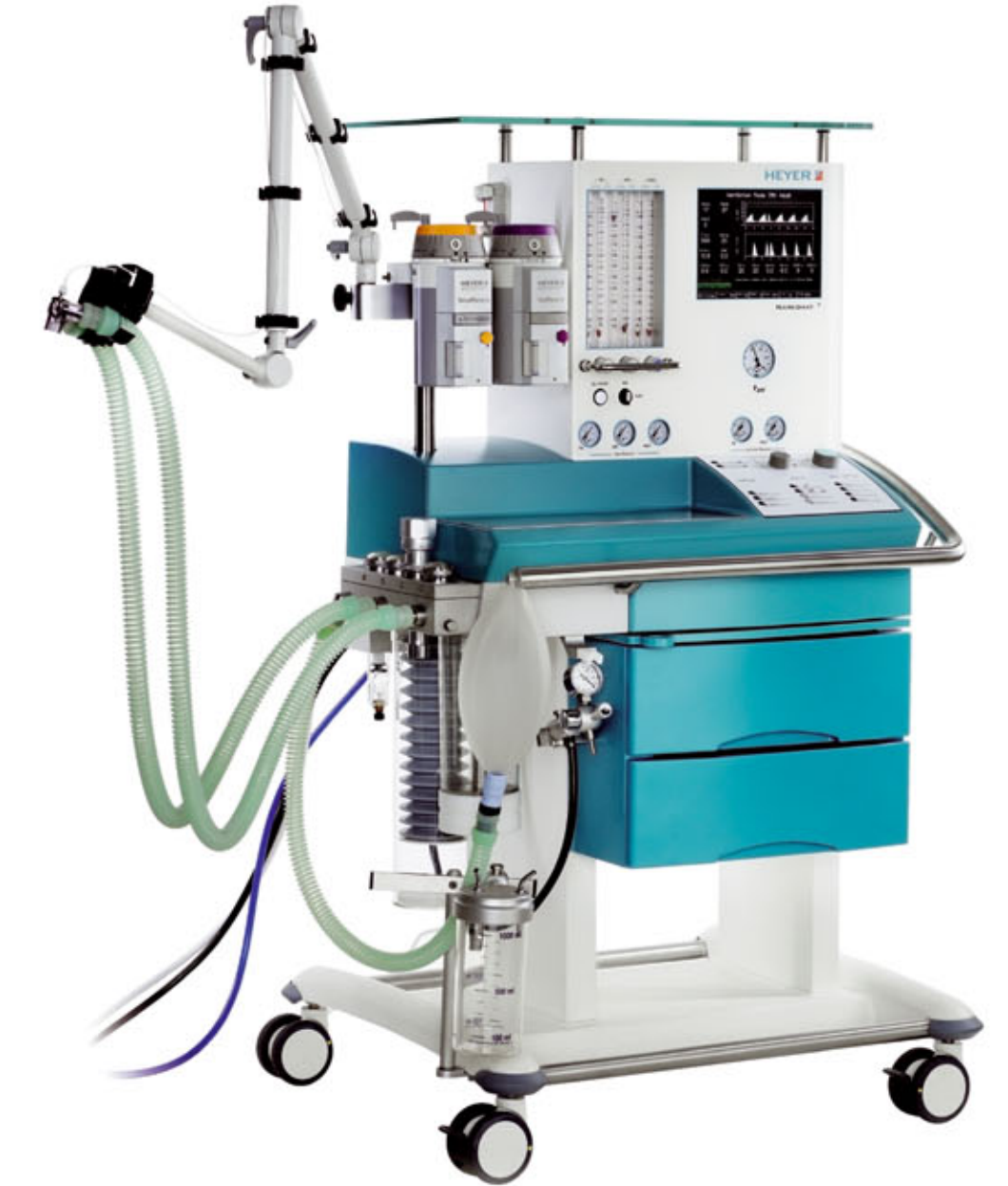
Temperature circuit system	35° C (±2° C)
Max sterilization temp.	134° C
System Compliance	automatically compensation
Fresh gas decoupling	inspiratory
Internal volume	approx. 2,5 l
Absorber volume	approx. 1,4 l; 1,6 kg

Ventilation and monitoring settings

Typ	time controlled pressure limited constant-volume
Ventilation modes	manual, spontaneous, CMV child, CMV adult, (S)CMV child, (S)CMV adult, PCV child, PCV adult
Tidal volume	20 - 1400 ml
CMV child:	20 - 400 ml
CMV adult:	300 - 1400 ml
Ventilation frequency	4 - 60 l/min
child:	10 - 60 l/min
adult:	4 - 30 l/min
I:E-ratios - normal	1:1; 1:1,5; 1:2; 1:2,5; 1:3; 1:4; 1:5
I:E-ratios - inverse	2:1; 3:1; 4:1 (PCV)
Plateau (end insp.)	20% or 30% of insp. time
PEEP	0 - 15 mbar (± 2 mbar)
Max. insp. pressure	80 mbar
Pressure control valve - manual	4 - 60 mbar
Sensor test	automatic
Leak test	automatic
Pressure monitor	Real-time graphics, Numerical values for: PEEP, Pmean, Ppeak
Flow monitor	Numerical values for tidal volume, breathing frequency, minute volume
Gas	
CO ₂	Display 0 - 10%, 0 - 76mmHg Accuracy: ± 0,5Vol% or ± 12% rel. Reaction time: <500 ms 150 ml/min
N ₂ O	Display 0 - 100 Accuracy: ± 2 vol% or +/8 % rel. Reaction time: <500 ms 150 ml/min O ₂ (paramagnetic) Display 0 - 100 % Accuracy: ± 0,1 % Reaction time: <500 ms 150 ml/min
Anesthetic agent	
Halothane, Isofluran	Display: 0 - 8,5 vol%
Enflurane, Sevoflurane	Display: 0 - 10 vol%
Desflurane	Display: 0 - 22 % Accuracy: 0 - 1.15 % or +15 % rel. Reaction time: <500 ms 150 ml/min
Display	MAC (Min. Alveol. Concentration) Anesthetic agent identification Anesthetic agent mixture identification
Measurement flow rates	150 ml/min, 200 ml/min

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HEYER
MEDICAL AG

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Thousands of people all over the world come into contact with our products daily – as either patients or users.

As a life-supporting component, the NARKOMAT⁺ anesthesia system is an integral part of the modern anesthesia environment. Since it is our market approach to meet our clients' needs, we have designed this flexible solution that allows present and future upgradeability within the anesthesia workplace: The HEYER NARKOMAT⁺

Not only in its outward appearance but also in its internal design, the NARKOMAT⁺ represents the latest position in technology. It is compatible with most existing patient monitors in the market. The NARKOMAT's flexibility allows you to design your own anesthesia workplace.

Through the monitoring of the inhaled gases in the semi-closed and nearly-closed system, the NARKOMAT⁺ is optimal for using low-flow technology, thus minimizing gas and anesthetic agent use. The NARKOMAT⁺ is exceptionally easy to operate and safe and reliable in daily use. It is outstandingly leak free and is thus a particularly economical solution.

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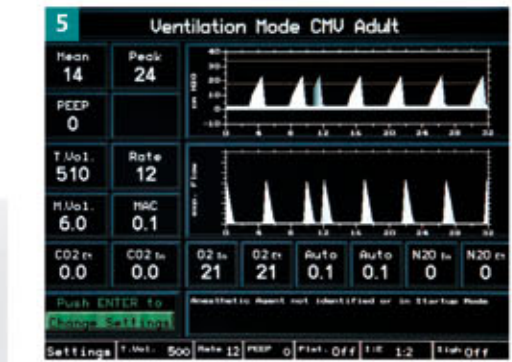
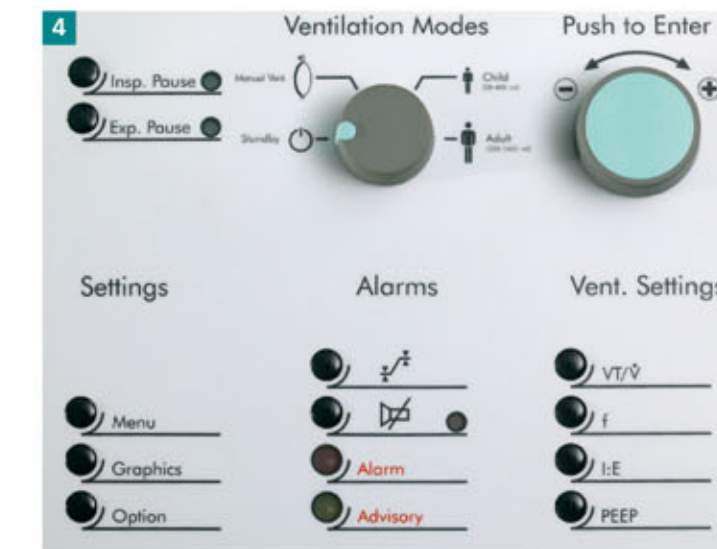


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- 1 Patient module
- 2 Adapted patient module
- 3 Vaporizer unit
- 4 Control unit
- 5 Integrated patient monitor
- 6 Feed pressure gauge

The flexible Ventilator

The NARKOMAT⁺ offers several ventilation modes:

- Ventilation modes: CMV, (S)CMV, PCV, MAN, SPONTANEOUS
- Insp. fresh gas decoupling for volume-constant tidal volume application
- Measurement and compensation of the breathing system compliance
- Self test routines with automatic calibration of all sensors
- Ergonomic user interface with keyboard, encoder and patient size vent dial
- Display of all measuring values and adjustments by high-contrast color TFT screen
- Displayed values: O₂ (paramagnetic), real time Capnograph, anesthetic agents (Halothane, Enflurane, Isoflurane, Sevoflurane, Desflurane), VT, MV, Frequency, PEEP, mean pressure (in graphic form with numerical display)
- Alarms and user info as text messages

Combined with a free selectable patient monitor for vital signs detection the NARKOMAT⁺ becomes an ideal work station for the main OR.

Please contact us to configure your system!