



MORPHEUS LT/MRI

Anaesthesia workstation



INTENSIVE CARES



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The MORPHEUS LT/MRI is an anaesthesia unit that can be used on adult, children and newborn patients.

The MORPHEUS LT/MRI is suitable for administration of Oxygen - Air - Nitrous Oxide - Halothane - Enflurane - Isoflurane - Sevoflurane - Desflurane mixtures.

The unit for anaesthesia MORPHEUS LT/MRI is completed with:

- mechanic gas mixing system
- electronic lung ventilator with dual colour display 165 x 145 mm with membrane keyboard and encoder
- valves group: open, semi-closed, closed, heated, with soda lime absorber (1 Kg)
- Connection device, compatible for 2 vaporizers
- gas supply group

• VENTILATOR MODULE

The lung ventilator incorporates dual colour display 165 x 145 mm with membrane keyboard and encoder

Ventilation modalities:

MANUAL, VC-VAC, PCV-APCV

Measured parameters:

PAW, PEEP, Pmean, Rate, Pause, VM, Tinsp, FiO₂
Optional: Pmax, Pmean, Pause, PEEP, Vti, Vte, ExpMV, Rate, FLOWi, FLOWe, I:E, Tinsp, Tesp, Tpause, Cs, Ri

Displayed ventilation curves:

- Paw
- Flow
- Volume
- Loop (Volume/Paw ; Volume/Flow)

Adjustable parameters:

- O₂ built-in Mixer device from 21% to 99%
- I:E Adjustable Ratio: 1:1 - 1:1.5 - 1:2 - 1:3 - 2:1 - 3:1
- Inspiratory Flow
- PEEP
- Breathing Rate
- Minute Volume;
- Tidal Volume
- Inspiratory Pressure Limit
- Inspiratory Pause
- Inspiratory Time
- Trigger



• **MECHANIC FLOWMETER MODULE**

Thanks to its ergonomic design and compactness this mechanic flowmeters group is absolutely innovative and user-friendly. This mechanical version at 3 gases and 5 flowmeters is characterized by the almost complete absence of mechanical controls; therefore, in practice we can define it electro-mechanical.

This allows the presence of both audible and visual alarms of a high impact and without time limit.

All standard safety systems are available (MIX-LIFE, CUT-OFF, Flowmeters protection valve).



• **BREATHING SYSTEM**

The breathing system of Morpheus guarantees to the user an absolute flexibility and easy handling thanks to the noble construction materials employed. The valves group can be drawn-up and it's totally autoclavable at 121°C and all its parts are manually dismountable, with no need of special tools.

All valves are equipped with an automatic warming system avoiding humidity in the patient circuits and permit to deliver fresh gas to the patient at optimal temperatures.

Calibrated APL valve

- Fresh gas collecting bag
- O2 cell for reading of FiO2
- Removable 1 kg soda lime canister
- Manually inspectionable bellows jar
- Safety valve for ambience air suction in case of fresh gas failure
- Flow transducer inside the group located on the expiratory line.



• **MORPHEUS CEILING VERSION**

The MORPHEUS units are also available for pendant mounting through specific lifting systems to be applied on pendant and anaesthesia trolley. There are two different lifting systems on pendant:

The first is the exclusive system: a self carrying device with tilting compensation in relieving phase, applicable on pendants only.

The second one is a universal device, applicable on all pendant units for anaesthesia available on the market.







3 waste drawers and wide work-shelf in order to facilitate operating rooms procedures

Technical Specification :

Cod. MORPHEUS LT/MRI	Anaesthesia unit for adults, children and new-born babies with electronic as mixing device O ₂ /N ₂ O/AIR with flow resolution.
Structure	Light aluminium alloy and plastic moulds (a magnetic material)
Wheels	Pivoting antistatic wheels, diameter 100 mm (2 with brakes)
Tiroirs	No. 3 full extension drawers
Cylinder support	No. 2 vertical cylinders supports, on the back side (for cylinders up to 10 litres capacity) and round rubber pads. For cylinder aluminium MRI compatible only
Support for 2 vaporizers	On horizontal guide (rapid connection device, compatible for 2 vaporizers)
Auxiliary power supply	No. 1 schuko 220 Vac outlet (max. 6 A)
Work shelf lighting	12Vdc by led
Dimensions (W x D x H)	71 x 77 x 138 cm
Weight	72 kg (without accessories)
Environmental conditions	Temperature from 10 to 40°C Relative humidity from 10 to 90% non-condensing
Accessoires Standard	<ul style="list-style-type: none"> • User's Manual • O₂ supply hose • N₂O supply hose • Air supply hose • Top Special CO₂ absorber canister of 1 kg (No. 2) • O₂ cell • Flow sensor (no. 2) • Adult silicone patient circuit • Adult Mapleson C adult patient circuit • Manual ventilation KIT • SHUKO-VDE electric power supply cable

Optional Accessories:

Cod. 100150/IDF	Isoflurane Vaporizer	
Cod. 100148/IDF	Fluo-Halotane Vaporizer	
Cod. 100145/IDF	Sevoflurane Vaporizer	
Cod. 100151/IDF	Desflurane Vaporizer	

Cod. 06751	Aluminium patient circuit	
Cod. 0300E/RMN	Gas scavenger, active amagnetique	
Cod. 30005/10	IS PAC 0,5 Kg CO ₂ absorber, disposable, Box/10 pcs	
Cod. 30900	TOP SPECIAL 1 Kg CO ₂ absorber, disposable, Box/10 pcs	