



# MORPHEUS LT/MRI

## Anaesthesia workstation



INTENSIVE CARES



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# MORPHEUS LT/MRI

## Anaesthesia workstation



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, FiO<sub>2</sub>  
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:

- O<sub>2</sub> 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
- O<sub>2</sub> cell for reading of FiO<sub>2</sub>
- 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 :

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

### Optional Accessories:

<b>Cod. 100150/IDF</b>	Isoflurane Vaporizer 	<b>Cod. 06751</b>	Aluminium patient circuit 
<b>Cod. 100148/IDF</b>	Fluo-Halotane Vaporizer 	<b>Cod. 0300E/RMN</b>	Gas scavenger, active amagnetique 
<b>Cod. 100145/IDF</b>	Sevoflurane Vaporizer 	<b>Cod. 30005/10</b>	IS PAC 0,5 Kg CO2 absorber, disposable, Box/10 pcs 
<b>Cod. 100151/IDF</b>	Desflurane Vaporizer 	<b>Cod. 30900</b>	TOP SPECIAL 1 Kg CO2 absorber, disposable, Box/10 pcs 



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