

Fabius MRI



From specialists for specialists

Your team focuses on performance and safety. So does our breakthrough MRI system.



Many clinicians rely on Dräger Medical for their anesthesia equipment in the highly specialized arena of MRI imaging, experience can make all the difference. And now our leading-edge anesthesia technology is available in a new solution specifically developed for your MRI environments up to 3 tesla: Introducing the Fabius MRI.

Best-in-class performance and safety Only Dräger Medical features the E-Vent servo-controlled piston ventilator. It delivers maximum peak flow far more precisely than any bellows ventilator and requires no drive gas. Its rapid response time has clear physiological benefits for the patient. And the Fabius MRI offers it to you in a solution certified for use with 1.5 tesla and 3 tesla MRI systems.

Handles a broader range of patient needs

Digital precision also holds the key to making the most of the latest anesthesia ventilation modes. Using Volume Mode, Pressure Mode, Pressure Support Mode and SIMV/PS, you can more effectively and confidently synchronize anesthesia therapy to patient requirements, regardless of age or acuity level. It's having ICU-quality ventilation performance at your disposal at all times.

Alarm innovations optimize response

To better attune clinicians to patient needs, the Fabius MRI features alarm lights on top of the system and a large display with color coded alarms to efficiently alert the user to changing patient needs.

Designed for a comfortable fit

The Fabius MRI has been thoughtfully designed to work ergonomically within your MRI environment. A choice of mounting options for the breathing system easily accommodates space constraints and user preferences. Plus, convenient features like the slim housing and four wheel central brake facilitate positioning and handling so you can concentrate on the patient and clear imaging results.



When your anesthesia technology is as advanced as your MRI, you don't miss a thing

Supporting complete imaging

As MRI suites become more advanced, the quality of therapy depends increasingly on the quality of your anesthesia solution. Through an ability to more precisely meet patient ventilation requirements, the Fabius MRI facilitates induction, sedation and recovery. This makes it easier to achieve complete MRI imaging, while also optimizing throughput.

Designed for use with 3-Tesla systems

The Fabius MRI meets all current electromagnetic restriction requirements, including today's demanding 3-Tesla standard. At an operating limit of 40 mtesla and it is certified for use with most brands of 3-Tesla MRI's.

Modular, easy to customize system

Our modular design allows you to create the ultimate anesthesia workstation based on your operating requirements and user preferences. The slim-line design easily accommodates your choice of patient monitors and additional third-party devices, including hemodynamic monitoring specially developed for MRI use. In addition to being highly flexible, this approach allows you to conveniently upgrade components as new technology is introduced to economically maintain superior performance.



Compact Breathing System "Cosy 2.6"

- Absorber compatible to Apollo / Primus
- Useable with click adapter (disposable absorber)
- Breathing bag extension, fixed (option)
- Mounted with 8" Cosy arm
- Shorter arm enables more ergonomic positioning of the device
- Integrated cable management

High resolution TFT color display (6.5 in diagonal)

- Excellent brightness and contrast for best readability
- One single screen for all settings, ventilation and fresh-gas flow measurements
- Virtual flow tubes displayed on screen
- Settings and pressure curve switching
- Dräger operating philosophy

Additional LED's at top plate (2)

- For CAUTION (yellow) and
- WARNING (red)
- To efficiently alert the user to changing patient needs.





Today, investment protection is essential. We also make it easier to achieve.

Readily upgradeable

You want to be able to cost-effectively take advantage of new anesthesia technology as it becomes available. You also want to be able to readily adapt to changing MRI suite requirements. That's why the Fabius MRI features a modular design that enables you to easily add future ventilation modes without having to replace or extensively modify existing hardware.

Certified application versatility

Due to its certified compatibility with most major brands of MRI systems, this single-solution versatility can simplify your specification process and help contain costs by minimizing your spare parts inventory, maintenance and service training.

Designed to reduce operating costs

One key to significantly reducing operating costs is the Fabius MRI's piston ventilation. Its precision enables you to leverage low-flow anesthesia. Plus, our Fabius MRI moisture reduction solution prevents condensation build-up to assure stable flow measurement accuracy. As a result you can minimize the use of expensive anesthetic agents and conserve fresh gases. At the same time, low-flow anesthesia minimizes patient risk and helps expedite recovery.

Minimize training

The Fabius MRI also demonstrates the power of Dräger Medical's CareArea™ Solutions. Its intuitive, high-efficiency user interface is consistent with our current family of state-of-the-art anesthesia workstations. This minimizes user training requirements and can assist users in transitioning from one Dräger Medical workstation to another.

With the sizeable investment you make in MRI technology, it only makes sense to do everything you can to protect that investment and leverage its value. And that includes choosing the Fabius MRI.





Fabius MRI Technical data Base unit with COSY 165.8 kg (365.5 lb) and without supplementary Base unit with COSY 182.8 kg (403 lb) and two vaporizers; without additional supplementary

Dimensions W x H x D Base unit (caster) approx. 78 x 140 x 92 cm with central brake locked (31 x 55 x 36.3 in) (with COSY, left or approx. 99 x 140 x 90/92cm (39 x 55 x 35.5/36.3 in) right side mounted) Hight extendable writing trav 86 cm (38.5 in)

Hight Teslameter sensor location 96 cm (37.8 in)

100 to 240 VAC, 50 / 60 Hz, 70 VA, Power supply (rating non-configurable) including additional power outlets

Ambient Conditions

Operation temperature 10 to 35 °C (50 to 95 °F) Storage temperature -10 to 60 °C (14 to 140 °F) > 45 min

Battery (supports ventilator and integrated monitor)

Ventilator E-vent Electronically controlled, electrically driven

Operating modes Standard:

> Manual / Spontaneous Volume Control (IPPV) Pressure Control (PCV) Pressure Support (PS)
> Synchronized Volume Controlled

Ventilation w/PS (SIMV/PS) 4 to 60 bpm

Breathing frequency (f) Max. minute volume (MV) 25 L / min Positive end-expiratory

0 to 20 cmH₂O (hPa) pressure (PEEP)

Inspiration / expiration ratio (Ti:Te) 4:1 to 1:4

Pressure limiting (Pmax) 15 to 70 cmH₂O (hPa)

Tidal Volume (Vt) 20 to 1400 mL in Volume Control

20 to 1100 mL in SIMV/PS

Inspiratory pause (Tip:Ti) 0 to 50 % SIMV inspiratory time (Tinsp) 0.3 - 4.0 sec

Inspiratory pressure (Pinsp) PEEP + 5 to 65 cmH₂O (hPa)

10 to 75 L / min in Volume and Pressure Control modes Inspiratory flow (InspFlow) 10 to 85 L'/min in Pressure Support and SIMV/PS modes

Pressure Support Level (Δ PPS) PEEP + 3 to 20 cmH₂O (hPa) Min. frequency for 3 to 20 bpm and "OFF"

apnea-ventilation (Freq. Min.)

Trigger 2 to 15 L/ min

Integrated safety functions

Sensitive Oxygen Ratio Controller (S-ORC) guarantees a minimum O_2 concentration of 23% in an O_2/N_2O mixture. N_2O cut-off if O_2 fresh gas valve is closed or if O_2 flow is less than 0.2 L/min. Audible and visual (flashing red LED) indication in case O2 pressure drops below 1.38 bar (20 psi) ± 0.27 bar (4 psi). In case of electricity and battery failure, manual ventilation, gas delivery and agent delivery are possible. Positive pressure relief valve opens at 75 ± 5 cmH₂O. Negative pressure relief valveopens at -7.5 to -9 cmH₂O.

Total fresh gas flow meter at 87 psi (6 kPa x 100): max. 75 L/min at 41psi (2.8 kPa x 100): max. 25 L/min at 55 psi (3.8 kPa x 100): max. 50 L/min O₂ flush (bypass) at 50 psi (3.8 kPa x 100): max. 35 L/min

Auxiliary Oxygen Flowmeter

Fresh-gas flow 0 to 10 L/min

Anesthetic Agent Vaporizer 2 position Dräger mount

Vapor 2000 system only Dräger Halothane Vapor 2000, Dräger Enflurane Vapor 2000 Dräger Isoflurane Vapor 2000, Dräger Sevoflurane Vapor 2000

Monitoring

Continuous monitoring of inspiratory O2 concentration, frequency, tidal volume, minute volume, mean or plateau pressure, peak airway pressure as well as PEEP. In addition, all fresh gas flow information is displayed as virtual flow tubes.

Serial interface 1 x RS 232 (standard)

Protocols Medibus

Volume of CO₂ absorber 1.5 Liter, Option: Dräger Medical's

prefilled CLIC absorber

Volume of entire compact 1.7 Liter + bag

breathing system

Gas supply from supplementary · with pin-index connections or MR compatible cylinders · with threaded connectors

Manufacturer: Dräger Medical AG & Co. KG

23542 Lübeck, Germany

The quality management system at Dräger Medical AG & Co. KG is certified according to ISO 13485, ISO 9001 and Annex II.3 of Directive 93/42/EEC (Medical devices).

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