



Dameca MRI 508

State-of-the-art MRI technology



The closer, the safer – the better

Hospitals have long awaited an anaesthesia machine that can be used close to their MRI scanner. The Dameca MRI 508 is it – the first in the world to perform reliably and accurately right next to diagnostic equipment with a strong magnetic field.

Our innovative machine takes patient safety to a new level of excellence. The benefits are many:

- Tested up to 2,000 Gauss
- 3.0 Tesla approved
- Intuitive and user-friendly interface
- Integrated breathing system
- Microprocessor-controlled ventilator with 8" high-resolution colour display and advanced ventilation modes, including PRVT(opt.)
- High-level safety features
- Space-saving design

MRI COMPATIBILITY

The Dameca MRI 508 has the unique ability to withstand up to 2.000 Gauss and is 3.0 Tesla approved. Tests in cooperation with leading MRI scanner suppliers have confirmed that diagnostic images and ventilator functions are undisturbed by nearby scanner operations. Reliable performance is guaranteed.

For patients and hospital staff, the machine improves safety and comfort and saves on time and space. Long tubing connections between the patient and anaesthesia equipment are eliminated, minimising leakage risks and enabling the operator to respond more quickly to patient needs.

CONTINUOUS PLATFORM DEVELOPMENT

Our commitment to ongoing innovation ensures our technological platform is continuously improved - and always equipped to satisfy the most demanding users.

Through our use of the most up-to-date, open standard technology, our electronic user interfaces are already prepared for the integration of healthcare equipment in hospital networks.

USER-FRIENDLY INTERFACE

No extra training is necessary to operate the Dameca MRI 508. We have given it the same user interface and patient system as our well-known Siesta i Whispa and Siesta i TS, so operators can get to work straight away.

When not required in the scanner room, the Dameca MRI 508 can function as a conventional anaesthesia machine in the operating theatre.

HIGH-LEVEL SAFETY FEATURES

The Dameca MRI 508 has a number of built-in safety features, including:

- Improved audible and visual LED alarm for easy monitoring from the MR operating room
- Minoyguard function, ensuring minimum 25% oxygen in the oxygen/nitrous oxygen mix
- A slave regulator that cuts off nitrous oxygen and gives an audible alarm in the event of a failed oxygen supply
- A fresh gas switch between the IBS and the auxiliary gas outlet
- An oxygen flowmeter with separate outlet, including tube nipple, and integrated patient suction unit
- Automatic self-test at start up
- Built-in battery backup
- No drawers, eliminating the risk of magnetic materials being tucked away and forgotten



SPACE-SAVING DESIGN

The slim, modular Dameca MRI 508 is a compact choice for all MRI suites, where it occupies a minimum of space. Twin wheels enable the machine to be moved around smoothly and easily.

We have done our best to integrate all functions in the machine. Even the AGSS for gas evacuation is among the core functions, eliminating the need for a separate system on the machine's side or rear.

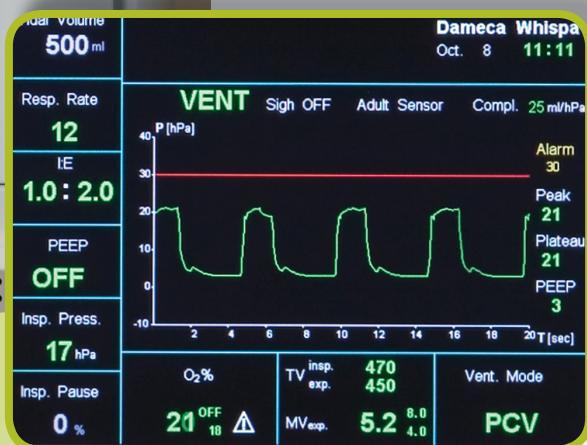
A smart back bar for mounting Selectatec vaporisers and simple mounting of all types of patient monitors add to the flexibility that will take the Dameca MRI 508 into the future.

LONG LIFETIME AT LOW COST

Look forward to the lowest total cost of ownership on the market. Minimum maintenance requirements and easy cleaning are all part of our design. Spare part orders are promptly handled and dispatched. Ask about our tailored service packages.



State-of-the-art MRI technology



of-the-art technology

MICROPROCESSOR-CONTROLLED VENTILATOR

Our ventilator compensates for changes in the fresh gas flow and compliance in the patient system.

Pressure, spirometry data and oxygen analysis are displayed on the 8" colour TFT screen.

The seven ventilation modes are: VCV, PCV, SIMV, PSV, PRVT (opt.), manual and spontaneous.

PRVT—PRESSURE REGULATED VOLUME TARGET

PRVT is a lung-protective ventilation mode that combines the advantages of volume controlled ventilation (VCV) and pressure controlled ventilation (PCV).

Optimum ventilation is achieved through inspiratory flow control, maintaining inspiratory pressure while the patient is under anaesthesia.

The required tidal volume set by the operator is achieved by automatic, breath-by-breath pressure regulation.

Integrated Breathing System



Forget about time-consuming, multiple tubing connections between the anaesthesia machine, patient system and patient. Our integrated breathing system (IBS) integrates an ascending bag-in-bottle, patient circuit and CO₂ absorber in one compact unit.

That means no tubings between the IBS and the machine and only two tubings — for inspiration and expiration — between the IBS and the patient.

Setting up for an operation is faster, and cleaning easier. In less than a minute, the system can be taken apart for cleaning, without any need of special tools. The foolproof design rules out the risk of reassembly errors after cleaning.

BAG-IN-BOTTLE

Ascending bellows prevent air from being drawn into the breathing system in the event of a leakage. Capacity up to 1500ml, suitable for adults, infants and neonates.

VALVES

Yellow valve flaps enable visual supervision of inspiration and expiration. A handy manual respiration valve is also integrated with pressure and spontaneous modes.

The hanging valve flaps ensure optimum ventilation for all patient categories including neonates.

Manual bag connection is located under the manual respiration valve.

i-SORB ABSORBER

Available in re-usable or disposable versions, the i-SORB eliminates waste of unused soda lime due to its flow-optimised design. Soda lime capacity is 900g.

Specifications

DAMECA MRI 508

Dimensions (HxWxD)	1510 x 760 x 670mm
Weight	110kg
Minoxyguard	Total flow range 0-20L/min
Vaporisers	Back bar for two Selectatec vaporisers (German or British standard) with interlock safety mechanism
Integrated breathing systems (IBS)	Hanging Insp./Exp. valve flaps Disassembly without tools in 30 seconds Fresh gas introduced after Insp. valve Autoclavable
Absorber capacity	900g
Ventilation modes	VCV (Volume Controlled Ventilation) PCV (Pressure Controlled Ventilation) SIMV (Synchronised Intermittent Mandatory Ventilation) PSV (Pressure Support Ventilation) PRVT (Pressure Regulated Volume Target) (opt.) Manual and spontaneous
Tidal volume	20 to 1500ml
Respiration rate	4 to 80bpm
I:E ratio	3:1 to 1:9.9
Electronic PEEP	4 to 20
Inspiratory pressure	PCV 7 to 67hpa PSV 4 to 50hpa
AGSS	30 to 40L/min
Ventilation measurements	PEAK, Plateau and PEEP pressure Patient compliance Tidal & minute volume Inspired O ₂ % (opt.) Spirometry loop

ABOUT DAMECA

Dameca is about raising standards of hospital and veterinary treatment through innovative development. For more than 60 years, our anaesthesia technology has contributed to high quality healthcare. Today our products rank among the safest, most efficient and most flexible on the market.

We manufacture our products at our modern facilities just outside Copenhagen. It is also here our head office is located, along with our development and test facilities, sales and after-sales departments and warehouse.

Dameca anaesthesia machines and accessories are sold through our sales team in Scandinavia and our distributor network in more than 100 countries worldwide. For further information, contact us directly or visit www.dameca.com.

Dameca a·s • Islevdalvej 211 • DK 2610 Roedovre • Denmark
Phone +45 4450 9990 • Fax +45 4450 9999
info@dameca.com • www.dameca.com

