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# Agilia MRI Guard

Infusion Magnetic Resonance Imaging's Protection

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Compatible with all Agilia infusion pumps

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Ensures safe positioning for patient security

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Prevents interference within magnetic fields of up to 20 mT

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# Agilia MRI Guard

## Use in MR environment

### MRI-scanner

To be used both with 1.5 Tesla and 3.0 Tesla MRI Scanners

### Magnetic field

To be used in magnetic fields up to 20 mT

### Magnet Indicator

Continuously measures the intensity of the magnetic field emitting a color coded visual LED and audible signal

## Use of Agilia pumps

With 1 up to 4 Agilia pumps

Compatible with: Injectomat Agilia, Injectomat MC Agilia, Injectomat TIVA Agilia, Volumat Agilia, Volumat MC Agilia, Agilia SP, Agilia SP MC, Agilia SP MC WiFi, Agilia SP TIVA, Agilia SP TIVA WiFi, Agilia VP, Agilia VP MC, Agilia VP MC WiFi

## Main technical characteristics

### Dimensions

H/W/D: 151 cm (59,44 in) x 62 cm (24,41 in) x 62 cm (24,41 in)  
Height including IV Pole: 194 cm (76,38 in)

### Weight

Approximately 47 kg

## Safety features

### Electromagnetic field protection

Faraday cage

### Magnetic field measurement

Magnet indicator

### External window

Electromagnetic shield

### Positioning

Mounted on 4 rolling wheels with break

## Signaling

### Magnet indicator

Normal operation	Magnetic field < 20 mT Color: green ●
Caution!	Magnetic field: 20 - 40 mT Color: yellow ●
The device must be moved back to return to the green zone	
Warning!	Magnetic field > 40 mT Color: red ●
The device must not be used in this zone. Move the unit away immediately!	

### Cap user interface indicators

Power status LED	Displays mains connection status Color: green ●
Battery status LED	Displays battery status and alarm Color: green ● / yellow ● / red ●
System status LED	Displays internal software status Color: green ● / yellow ● / red ●

### Alarm centralisation LED

Function	Displays Agilia Infusion pumps alarms and pre alarms
RED	High priority alarm
YELLOW	Medium or low priority alarm

## Main power specifications

Agilia MRI Guard can be on battery or mains-operated

### Function

Primary source for Agilia power outlets and for internal electronics of Agilia MRI Guard

### Connector

Standard appliance inlet IEC type C14 - male - 3 poles

### Power supply

100 V to 240 V AC - 50 / 60 Hz

### Maximum power (with pumps)

75 VA

### Protective fuse

2 fuses, 2 A timed with high breaking capacity - T 2A H 250 V  
Fuseholder is externally accessible on mains power inlet connector

### Electric protection

Class I with protective earth, with 3-wire power cord

## Cap user interface integrated battery (rechargeable)

### Function

Backup battery when mains power is not available or transport of the device

### Characteristics

7.2 V / 2.2 Ah - Lithium Ion rechargeable battery

### Battery life

Preventive replacement after 3 years

### Self protections

Over-current, over-discharge, over-voltage and over-temperature

### Charging time

At least 15 hours with integrated automatic charger when the device is plugged to the mains

## Battery-pack of magnet indicator

### Function

Battery to operate the Magnet Indicator independently from the power supply of the Agilia MRI Guard rack

### Access

Battery is fixed with two screws. It can be easily replaced with a screwdriver

### Characteristics

4.5 V / 18 Ah - Primary Alkaline (ZN/MnO<sub>2</sub>) battery, non rechargeable

### Battery life

1 year minimum by normal operation (Replacement by annual quality control of Agilia MRI Guard)

### Self-protections

Over-current, over-discharge

## Compliances with standards

### CE Mark

Complies with the 93/42/EEC Medical Device Directive

### Safety of electromedical equipments

Complies with IEC 60601-1:2005 - Amendment A1:2012  
IP22 protection against dust and splashing liquid  
Defibrillation-proof type B applied part  
Class I with protective earth  
Agilia power outlets are wired on internal functional earth to reduce residual current that may disturb ECG or EEG devices

### EMC (electromagnetic compatibility)

Complies with IEC 60601-1-2:2014

### MR conditional

Magnetic field max. 20 mT (200 Gauss)

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