



OPERATORS MANUAL

FE-100 MRI Fire Extinguisher



MRI CONDITIONAL
TO 3 T.0 TESLA

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MRI Fire Extinguisher Op. Man. Pub. 022018 Pub. No: 0 Rev:0



Introduction







Thank you for purchasing the FE-100 MRI Fire Extinguisher. This product is manufactured and tested to the highest standards and is guaranteed MR Conditional up to 3 Tesla.

To ensure that you obtain maximum benefit from the FE-100 MRI Fire Extinguisher, please take a few minutes to read the enclosed information regarding operation, service and maintenance. After reading this manual, store it in a safe place for future reference.

If you have any problems in the meantime or would like any advice about this or any other MR products from the Troyka Med range, please contact us at the following address

Troyka Med Inc.




Tel: +90 312 2650096
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	Protect from direct sunlight		Protect from rain and humidity		MRI conditional up to 3 Tesla
	Read user manual		Manufacturer		ISO13485 ISO 9001 Class I medical devices



1 Safety Information

1.1 MRI Safety Definition for MRI as Defined by International Standards ASTM F2503-13


	<p>MR SAFE</p> <p>An item that poses no known hazards resulting from exposure to any MR environment MR SAFE items are composed of materials that are electrically nonconductive, non-metallic, and nonmagnetic.</p>
	<p>MR CONDITIONAL</p> <p>An item with demonstrated safety in the MR environment within defined conditions. At a minimum, address the conditions of the static magnetic field, the switched gradient magnetic field and the radiofrequency fields. Additional conditions, including specific conditions of the item, may be required.</p> <p>Supplementary marking – additional information that, in association with marking as “MR CONDITIONAL” states via additional language the conditions in which an item can be used safely within the MR environment.</p>
	<p>MR UNSAFE</p> <p>An item with poses unacceptable risks to the patient, medical staff or other persons within the MR environment.</p>

1.2 General Safety Information and Intended Use

It is required that as personnel handling the MRI fire extinguisher are familiar with the safety instructions given in the manual and other documentation provided to ensure safe operation of the fire extinguisher and associated equipment.



The system comes with a one-year warranty on all parts and labor, and a shelf life of two years starting from the day of its original installation.

1.3 Health Concerns

	<p>Warning!</p> <p>If any of the components become damaged, notify Troyka Med Inc. customer service for assistance. Use of broken components can cause injury to the clinician or the patient.</p>
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1.5 Warnings for MRI

	<p>Caution! In addition, no persons with ferromagnetic prosthetic devices, such as pacemakers or joints replacement, should enter the MRI suite at any time. Extreme, high magnetic fields inside the magnetic room have the potential to dislodge items at high velocities and can result in serious injury, or death.</p>
	<p>Caution! For questions regarding operating procedures or technical support, call Troyka Med service team or contact via email at info@troykamed.com.</p>

2 General Information

2.1. Inspection of Delivered Goods

Each of fire extinguisher has been thoroughly tested prior to delivery and is ready for immediate use. Upon receipt, please report any transportation damage or missing accessories immediately. Troyka Med can only accept liability for such damages if it is claimed prior to initial operation. In case of transportation damage, please contact the Troyka Med service department. For faster support please have ready all shipment details and damage description. It is recommended to keep and store the original crate/box used to ship the fire extinguisher for all future transportation needs.

The fire extinguisher is sent empty because of the shipping regulations. You should bring it to the fire extinguisher service where your normal fire extinguishers are filled. The fire extinguisher is CO2 type and it should be filled with CO2.



3 System Overview and Installation Guide

3.1 Parts Included

1	Fire extinguisher tube with valve	
2	Fire extinguisher hose	

Table 1: MRI Fire Extinguisher list of components

3.2 System Overview

The FE-100 MRI Fire Extinguisher is designed to be MR conditional and is manufactured and tested to the highest standards. The fire extinguisher is designed to be used with all MRI scanners up to 3 Tesla magnetic field strength.

3.3 Technical Specification

Fire Extinguisher	
Material	AA 6061 TL
Manufacturing Process	Cold Backward Extrusion
Water Capacity	Min. 5,0 Lt.
Body OD	140 mm
Total Height	600 mm
Torque	Min. 95 N/m Max. 110 N/m
Test Pressure	300 bar
Working Pressure at 60°C	200 bar
Burst Pressure	over 468 bar
Net Weight	7 kg
Certified according to Pressure Equipment Directive	99/36/EC
Designed in accordance with	EN 1975

3.4 Using Instruction

- 1.The cylinder shall only be filled with compressed gases.
- 2.The cylinder shall be stored as upward position.
- 3.The storage area shall be protected against corrosion.
- 4.The threads shall be protected against any damage.
- 5.The cylinder shall not be over torqued during the assembly of fitting valves.
- 6.The inner and outer surfaces of the cylinders shall be kept away from oil, dust any other contamination.
- 7.During handling, the plastic nets shall not be removed over the cylinders.
- 8.The cylinder shall not be dropped.
- 9.The cylinder shall be carefully handled during the transportation.

