

GE Optima MR450w 1.5T Site Layout and Planning Guide

The GE Optima MR450w 1.5T MRI system is a versatile imaging solution designed to meet the needs of modern healthcare facilities. Combining advanced imaging technology with a focus on patient comfort and operational efficiency, the Optima MR450w delivers high-quality diagnostic images across a wide range of clinical applications. This system is engineered to provide excellent performance at an affordable cost, making it an ideal choice for facilities looking to enhance their imaging capabilities without compromising on quality.

Site Planning Resources

GE Healthcare provides detailed site planning guides for the Optima MR450w 1.5T MRI system. These guides include information on room layouts, equipment placement, and infrastructure requirements. For specific planning documents, it's recommended to contact GE Healthcare directly or consult with authorized GE partners.

Key Room Specifications

- Minimum Room Size: Approximately 30 m² (323 sq. ft.)
- System Length: Approximately 150 cm (59 inches)
- Magnet Length: Approximately 150 cm (59 inches)
- System Weight: Approximately 5,500 kg (12,125 lbs)
- Bore Size: 70 cm wide bore design

Power & Cooling Requirements

- Electrical Supply:
 - Line Voltage: 480V, 3-phase
 - Frequency: 50/60 Hz
- Cooling System:
 - Type: Helium-cooled superconducting magnet

Magnetic Fringe Field Considerations

The magnetic fringe field extends beyond the magnet and must be considered for safety and equipment placement. Specific distances for the 0.5 mT (5 Gauss) and 0.1 mT (1 Gauss) lines should be obtained from GE Healthcare's site planning documentation to ensure compliance with safety standards.

Installation & Structural Requirements

- Transport Openings:
 - Ceiling: Minimum 240 cm × 240 cm
 - Wall: Minimum 240 cm × 240 cm
- Floor Loading: The floor must support the system's weight, including the magnet and additional components.

For a comprehensive overview and detailed planning, it's recommended to consult the official GE Healthcare site planning guides or contact GE Healthcare directly for the most accurate and up-to-date information.