

MAGNETOM Skyra 3.0T Site Layout and Planning Guide

The MAGNETOM Skyra 3.0T MRI system from Siemens Healthineers is a high-performance imaging solution designed for advanced clinical applications. For effective installation and operation, specific site planning considerations are essential.

Room Layout & Dimensions

- Minimum Room Size: Approximately 31 m² (333 sq. ft.)
- Recommended Room Dimensions: 351 cm × 676 cm (11.5 ft × 22.2 ft)
- Magnet Length: 173 cm (68 inches)
- System Weight: Approximately 7,100 kg (15,653 lbs)
- Ceiling Height Requirements:
 - Examination Room: Minimum 240 cm (7.9 ft)
 - Control Room: Minimum 210 cm (6.9 ft)
 - Equipment Room: Minimum 220 cm (7.2 ft)

Power & Cooling Requirements

- Electrical Supply:
 - Line Voltage: 400 V ±10%
 - Frequency: 50/60 Hz ±1 Hz
 - Power Consumption: Up to 91 kVA
- Cooling System:
 - Heat Dissipation to Water: Approximately 60 kW
 - Water Flow Rate: 120 liters/min
 - Water Supply Temperature: 19–22°C
 - Water Quality: De-ionized water with 35–40% ethylene glycol antifreeze

Magnetic Fringe Field Considerations

The magnetic fringe field extends beyond the magnet and must be considered for safety and equipment placement:

- 0.5 mT (5 Gauss) Line:
 - X-axis: 2.6 m
 - Y-axis: 2.6 m
 - Z-axis: 4.6 m
- 0.1 mT (1 Gauss) Line:
 - X-axis: 3.8 m
 - Y-axis: 3.8 m
 - Z-axis: 6.8 m

Installation & Structural Requirements

- Transport Openings:
 - Ceiling: Minimum 195 cm × 240 cm
 - Wall: Minimum 195 cm × 235 cm

- Floor Loading: The floor must support the system's weight, including the magnet and additional components.

For comprehensive planning, consult the Siemens Healthineers MAGNETOM Skyra Basic Planning Information guide.