# Philips Ingenia 1.5T & 3.0T Site Layout and Planning Guide

Here is a comprehensive site planning guide for the Philips Ingenia 1.5T and 3.0T MRI systems, incorporating key specifications and layout considerations.

## Philips Ingenia 1.5T CX - Key Specifications

- Minimum Room Size: Approximately 30 $m^2$ (323 sq. ft.)
- System Weight: Approximately 5,500 kg (12,125 lbs)
- Bore Size: 70 cm
- Ceiling Height Requirements:
  - Equipment Room: Recommended 10' 6" (3200 mm); Minimum 9' 2" (2795 mm)
  - Exam Room Suspended Ceiling: Required 8' 3¼" (2520 mm)
  - Exam Room RF Ceiling:
    - Helium Waveguide Through RF Wall: Minimum 9' 9" (2970 mm)
    - Helium Waveguide Through RF Ceiling: Minimum 10' ½" (3060 mm)
  - Control Room: Recommended 9' 10" (3000 mm); Minimum 7' 3" (2200 mm)

## Philips Ingenia 3.0T Omega HP - Key Specifications

- Minimum Room Size: Approximately 30 $m^2$ (323 sq. ft.)
- System Weight: Approximately 5,800 kg (12,786 lbs)
- Bore Size: 70 cm
- Ceiling Height Requirements:
  - Equipment Room: Recommended 10' 6" (3200 mm); Minimum 9' 2" (2795 mm)
  - Exam Room Suspended Ceiling: Required 8' 3¼" (2520 mm)
  - Exam Room RF Ceiling:
    - Helium Waveguide Through RF Wall: Minimum 10' 6" (3200 mm)
    - Helium Waveguide Through RF Ceiling: Minimum 11' 2¼" (3410 mm)

## 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

A controlled access area must be defined where the magnetic field strength exceeds 0.5 mT (5 Gauss). This area should be clearly marked with appropriate warning signs and floor markings to prevent unauthorized access. All entries to this area should be labeled, and emergency magnet off buttons must be installed as per Philips' site planning information.

## 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 detailed equipment layouts and further planning information, refer to the following Philips documents:

- Ingenia 1.5T CX Equipment Layout:
https://www.documents.philips.com/doclib/enc/14714660/Ingenia_1.5T_CX.pdf
- Ingenia 3.0T Omega HP Equipment Layout:
https://www.documents.philips.com/doclib/enc/14713124/Ingenia_3.0T_Omega_HP.pdf