

## Canon Aquilion Lightning 16 / 32 CT Site Guide

### Room Layout & Dimensions

Minimum Scanner Room Size: 22 ft x 14 ft x 9 ft (L x W x H)

Gantry Aperture: 78 cm (~30.7 inches)

Patient Table Weight Capacity: 496 lbs (225 kg)

Control Room: At least 8 ft x 10 ft

### Power Requirements

Main Power Input: 400–480 VAC, 3-phase, 50/60 Hz

Power Consumption:

- - 16-slice: ~65 kVA
- - 32-slice: ~75 kVA

Dedicated Electrical Panel: Required

UPS System: Recommended for console and archive

Isolation Transformer: Optional but recommended

Surge Protection: Mandatory

### Environmental Requirements

Room Temperature: 68°F – 75°F (20°C – 24°C)

Relative Humidity: 30% – 70%, non-condensing

Air Changes: ≥6 per hour

Heat Output:

- - Gantry & Electronics: ~22,000 BTU/hr
- - Console: ~4,000 BTU/hr
- - Total HVAC Load: ~26,000 BTU/hr minimum

### Radiation Shielding

Must be designed and approved by a certified radiation physicist in accordance with state and local codes.