

Canon Aquilion Prime SP 80 / 160 CT Site Guide

Room Layout & Dimensions

Minimum Scanner Room Size: 24 ft x 15 ft x 9 ft (L x W x H)

Gantry Aperture: 78 cm (~30.7 inches)

Patient Table Weight Limit: 660 lbs (300 kg)

Control Room: At least 8 ft x 10 ft

Power Requirements

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

Power Consumption:

- - 80-slice: Up to 85 kVA
- - 160-slice: Up to 100 kVA

Dedicated Power Panel: Required

UPS: Recommended for operator console and archive systems

Isolation Transformer: Strongly recommended

Surge Protection: Required

Environmental Requirements

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

Humidity: 30% – 70%, non-condensing

Ventilation: ≥6 air changes per hour

Heat Dissipation:

- - Gantry & Electronics: ~25,000 BTU/hr
- - Console Room: ~5,000 BTU/hr
- - Total HVAC Load: ~30,000 BTU/hr minimum

Radiation Shielding

Design to be reviewed and approved by a qualified radiation physicist following federal and state requirements.