

Canon (Toshiba) Aquilion ONE CT Site Guide

Room Layout & Dimensions

Minimum Scanner Room Size: 26 ft x 16 ft x 9 ft (L x W x H)

Gantry Aperture: 78 cm (~30.7 inches)

Patient Table Weight Limit: 661 lbs (300 kg)

Control Room: At least 10 ft x 10 ft

Suggested Operator Console Viewing Angle: Direct line of sight to patient table and gantry

Power Requirements

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

Power Consumption: Up to 120 kVA for full load operation

Dedicated Electrical Panel: Required

Isolation Transformer: Recommended

UPS for Console & Archive Systems: Recommended

Surge Protection: Mandatory

Environmental Requirements

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

Humidity: 30% – 70%, non-condensing

Ventilation: Minimum 6 air changes per hour

Heat Dissipation:

- - Gantry & Electronics: ~28,000 BTU/hr
- - Console Area: ~6,000 BTU/hr
- - Total Cooling Capacity Required: ~35,000 BTU/hr

Radiation Shielding

Shielding design should be determined by a qualified medical physicist in accordance with local and state regulations.