

# Philips Gemini TF 16/64 PET/CT Site Planning Guide

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## Room Layout & Dimensions

- Minimum Room Size (Scanner Room): 24 ft (L) x 14 ft (W) x 8.5 ft (H)
- Control Room (Recommended): 10 ft x 12 ft
- Upholstered table clearance: ~3 ft on each side
- Weight Capacity (Patient Table): ~500 lbs

## Power Requirements

- Main Voltage: 400–480 VAC, 3-phase, 50/60 Hz
- Power Consumption: ~100–120 kVA
- Dedicated Power Panel: Required
- UPS: Recommended for console and network systems
- Grounding: Compliant with manufacturer safety specs

## Environmental Requirements

- Room Temperature: 68–75°F (20–24°C)
- Humidity: 30%–70% (non-condensing)
- Ventilation: Minimum 6 air changes per hour
- Heat Output:
  - Gantry & Electronics: ~25,000 BTU/hr
  - Control Room: ~4,000–5,000 BTU/hr
- Air Conditioning: Must support total load of 30,000 BTU/hr or more

## Shielding

PET/CT systems typically require lead or equivalent shielding depending on state/local regulations.

A radiation physicist should assess final room shielding.