



Best Cyclotron Systems, Inc.

BG-95 Self-Shielded Cyclotron for ¹³N Ammonia

Ideal for Nuclear Cardiology/ Oncology Applications

- Integrated shielded ¹³NH₃ chemistry module
- Low energy compact system, can be placed next to PET, PET/CT
- Automated quality control testing
- Can be paired with Cardiac PET Tomograph for a complete Cardiac PET Solution
- Easy to operate push-button graphic interface

Best Cyclotron Systems

B6–15 MeV Compact High Current/ Variable Energy Proton Cyclotron

- 1–1000 µA extracted beam current
- Capable of producing the following isotopes: ¹⁸F, ⁶⁸Ga, ⁸⁹Zr, ^{99m}Tc, ¹¹C, ¹³N, ¹⁵O, ⁶⁴Cu, ⁶⁷Ga, ¹¹¹In, ¹²⁴I, ²²⁵Ac, ¹⁰³Pd, ⁴⁴Sc and more
- Up to 5 x 10¹³ neutrons per second from external target
- 21 stripping foils at each stripping port for two minute rapid change

Isotope Production Capabilities | **Best 15 Isotopes**

PET	
Isotope	Application
Carbon-11	Broad Substitution
Nitrogen-13	Ammonia: blood flow
Oxygen-15	Blood flow, volume, oxygen utilization
Fluorine-18 aqueous	FDG mainly, many others
Fluorine-18 gas	Radiolabeling from gas phase
Copper-64	Integration through chelation chemistry
lodine-124	Monoclonal antibodies

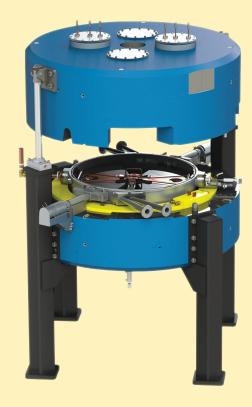
SPECT

Isotope	Application
Gallium-67	Fe analog, inflammatory lesions
Technetium-99m	Many

Therapeutic	
Isotope	Application
Palladium-103	Interstitial implants, brachytherapy







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