



## Best 35p Cyclotron

### Type Of Cyclotron

- Negative hydrogen ion (H<sup>-</sup>)
- External ion source, multi-cusp 15 mA
- Simultaneous dual beam extraction (multiple foil extraction cartridge)
- Custom design beam line configuration (4 to 6 beam lines)

### Beam Current

- 800  $\mu$ A combined beam current
- Higher currents available (1000  $\mu$ A)

### Beam Energy

- 15 to 35 MeV variable energy extraction

### Magnet

Magnet coil ..... ~101 kAT  
Magnet weight ..... ~50 tons  
Geometry ..... 4 sector, deep valley

### RF System

Resonator ..... 2 Dees  
Dee voltage ..... 60 kV  
RF frequency ..... 65 MHz, 4<sup>th</sup> harmonic  
Power required ..... 22 kW (nominal)  
Energy gain per turn .... 240 keV

### Vacuum System

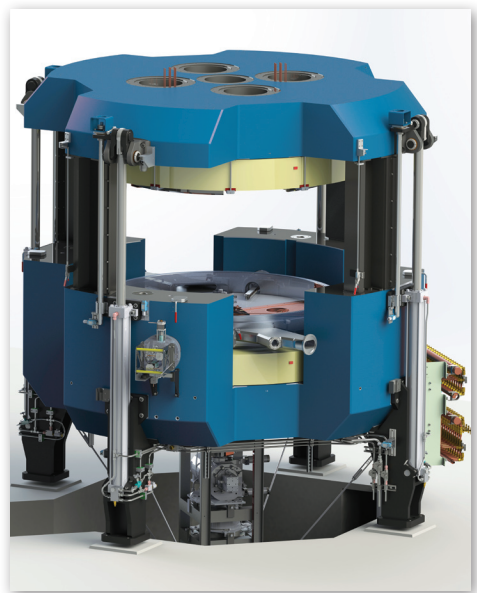
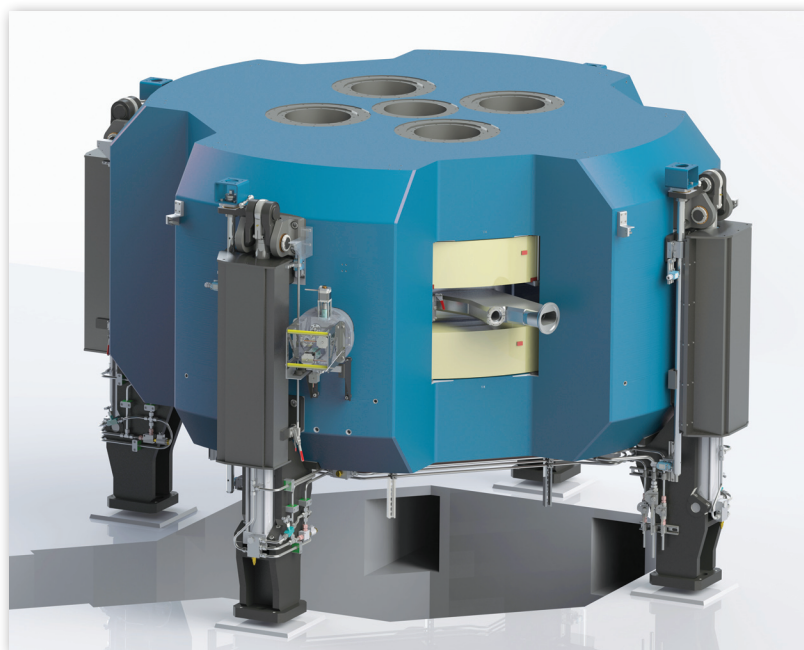
Base pressure..... <1 x 10<sup>-7</sup> Torr  
Operating pressure ..... <2 x 10<sup>-7</sup> Torr  
Pumps ..... Cryogenic pump system

### Automated Control System

Computer System ..... Standard PC, Windows-based OS  
Controllers ..... Siemens Industrial PLC Modules  
User Console ..... Color monitor  
Interface ..... Graphical user interface  
Networking ..... Standard thin-wire Ethernet hardware

### External Production Targets

The cyclotron is supplied with high current solid target stations and high current gas target stations.



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