



Best 70p Cyclotron

Type Of Cyclotron

- Negative hydrogen ion (H⁻)
- External ion source, multi-cusp 15 mA
- Simultaneous dual beam extraction (multiple foil extraction cartridge)
- Up to 6 beam lines, custom design configuration

Beam Current

- 700 μ A combined beam current
- Higher currents available (1000 μ A)

Beam Energy

- 35 to 70 MeV variable energy extraction

Magnet

Magnet coil	~66 kAT
Magnet weight	~150 tons
Maximum magnetic field	1.6 T
Geometry	4 sector, deep valley
Hill sector angle	50°
Hill gap	6 to 4.69 cm

RF System

Resonator	2 Dees (separated resonators)
Dee voltage	60 to 81 kV
RF frequency	56 MHz, 4 th harmonic
Power required	20 kW (per resonator)
Energy gain per turn	240 to 300 keV

Vacuum System

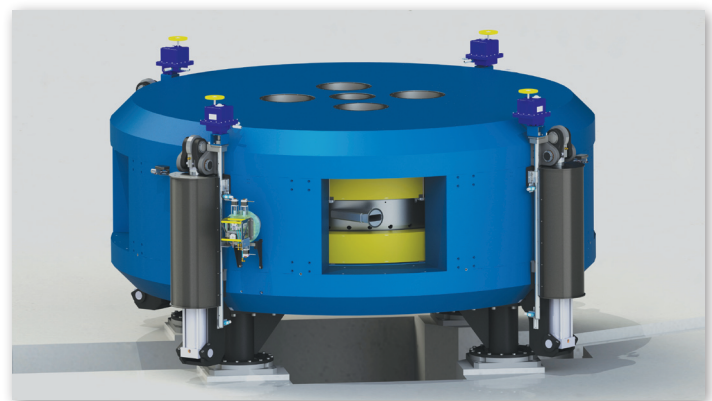
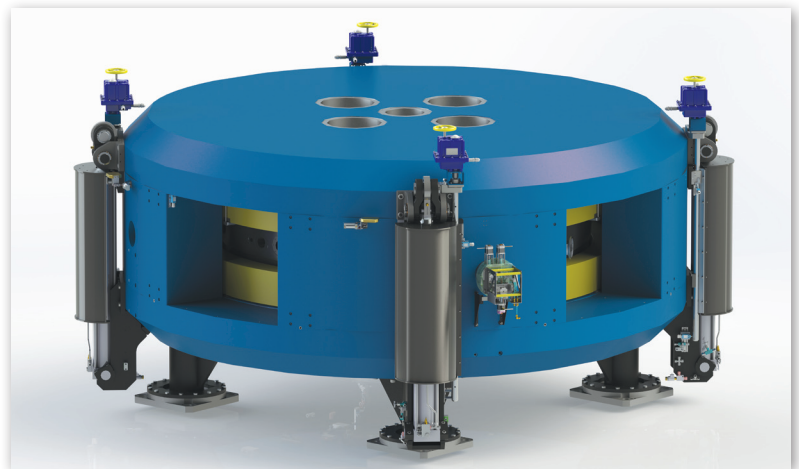
Base pressure.....	<1 x 10 ⁻⁷ Torr
Operating pressure	<2 x 10 ⁻⁷ Torr
Pumps	Cryogenic pump system

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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