**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 µA combined beam current
- Higher currents available (1000 µA)

**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, 4th 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.