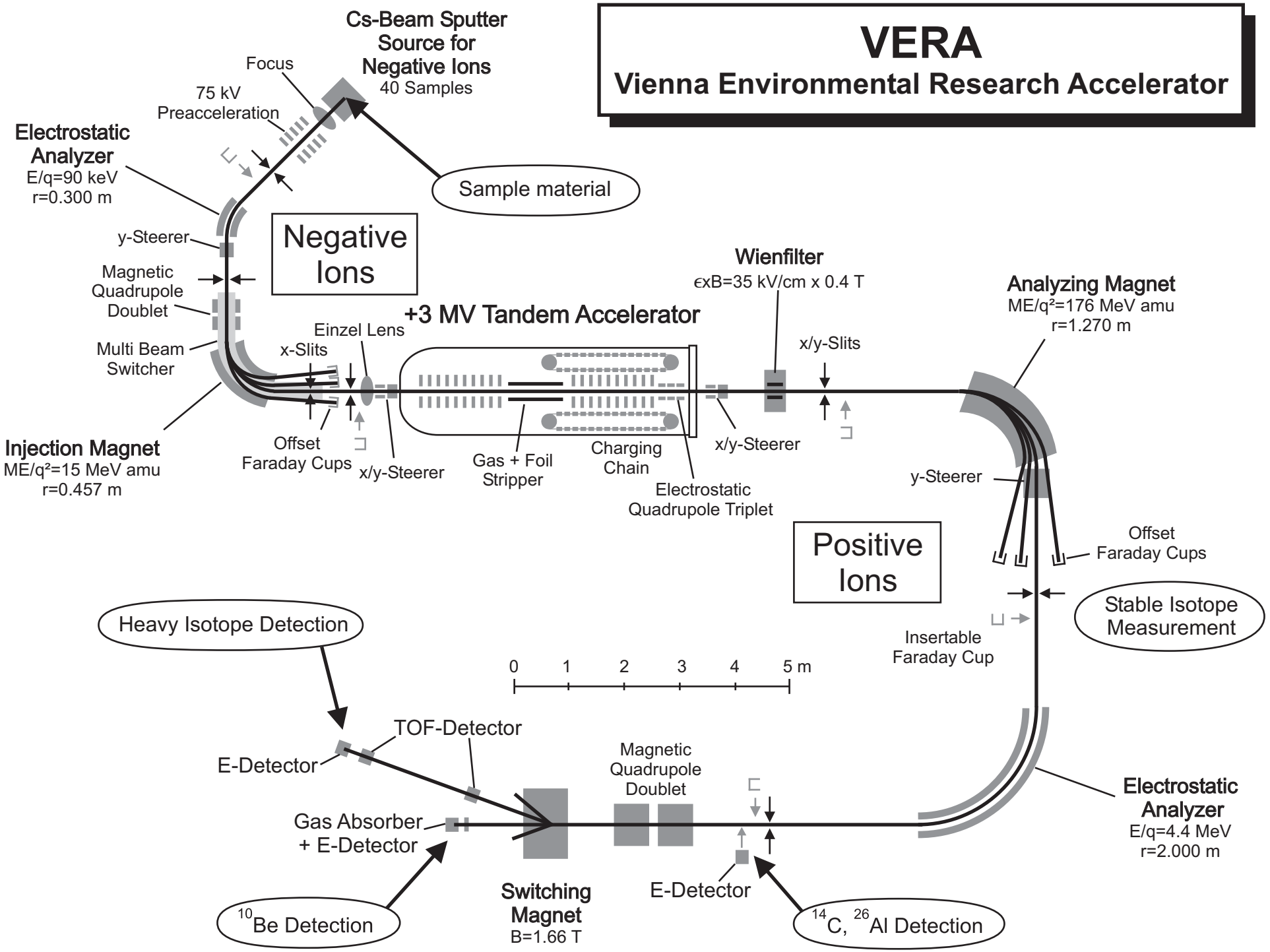
VERA
Vienna Environmental Research Accelerator
Cs-Beam Sputter Source for Negative Ions
40 Samples
Focus
75 kV Preacceleration
Electrostatic Analyzer
E/q=90 keV
r=0.300 m
Sample material
Negative Ions
y-Steerer
Magnetic Quadrupole Doublet
Multi Beam Switcher
Injection Magnet
ME/q²=15 MeV amu
r=0.457 m
+3 MV Tandem Accelerator
Einzel Lens
x-Slits
Offset Faraday Cups
x/y-Steerer
Gas + Foil Stripper
Charging Chain
Electrostatic Quadrupole Triplet
Wienfilter
ϵxB=35 kV/cm x 0.4 T
x/y-Slits
x/y-Steerer
Analyzing Magnet
ME/q²=176 MeV amu
r=1.270 m
y-Steerer
Offset Faraday Cups
Positive Ions
Stable Isotope Measurement
Insertable Faraday Cup
0 1 2 3 4 5 m
Heavy Isotope Detection
TOF-Detector
E-Detector
Gas Absorber + E-Detector
10Be Detection
Switching Magnet
B=1.66 T
Magnetic Quadrupole Doublet
E-Detector
14C, 26Al Detection
Electrostatic Analyzer
E/q=4.4 MeV
r=2.000 m