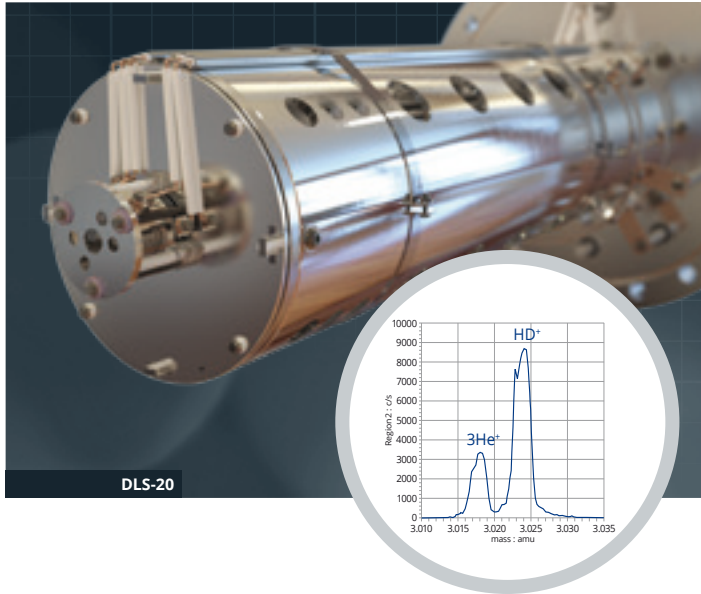


A detailed view of the interior of a fusion reactor, showing a complex, cylindrical structure with multiple layers of metallic tiles. The structure is illuminated with a blue and purple glow, creating a futuristic and high-tech atmosphere. The tiles are arranged in a grid pattern, and the overall design is highly symmetrical and intricate.

Mass Spectrometers for Fusion Research DLS Series



DLS-20 Unique dual-zone switching ultra-high resolution mass spectrometer for the analysis of hydrogen and helium isotopes and light gases

- ▶ Industry first 20 mm rod diameter quadrupole mass filter for ultra-high mass resolution
- ▶ Software switchable dual-zone RF power supply for Zone H ultra-high resolution 1-20 amu operation and Zone I ultra-high stability 1-200 amu operation
- ▶ 0.006 amu mass separation in real time
- ▶ Sensitivity of both He in D₂ and D₂ in He is 1 ppm
- ▶ ³He quantification in HD



DLS-10 Mass spectrometer specifically developed for the research and quantification of light gases and hydrogen isotopes by mass

- ▶ 1-10 amu mass range
- ▶ Zone H ultra-high resolution operation for the separation and quantification of hydrogen and helium isotopes
- ▶ Sensitivity of both He in D₂ and D₂ in He is 10 ppm



DLS-1 Mass spectrometer for real-time quantitative analysis of complex gas and vapour mixtures in fusion applications

- ▶ 1-100 amu mass range
- ▶ Software driven recipes using threshold ionisation mass spectrometry (TIMS) for the real-time quantification of hydrogen and helium isotopes and deuterated hydrocarbons
- ▶ Sensitivity of D₂ in He of 100 ppm