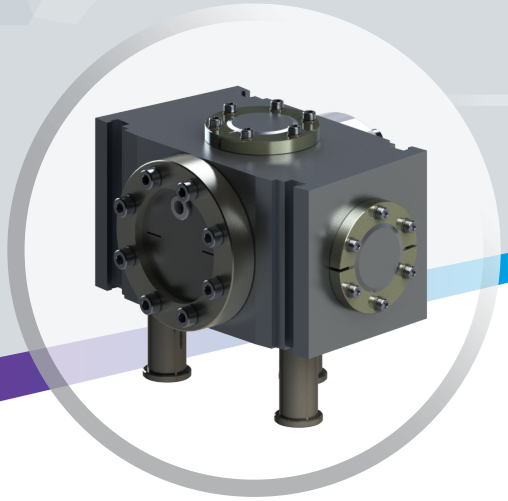
Arterium Rejector Modules



Steering EUV beams is most efficiently performed with grazing incidence optics. EUV light from high harmonic genereration co-propagates with the IR light used to create it. Ensuring IR light is removed is essential for nearly all applications. KMLabs offers a set of IR-rejecting beam steering modules, which both steer the EUV beam with high efficiency and remove IR radiation.

Applications

- Removal of IR from HHG driven EUV
- High Efficiency in-vacuum EUV beam steering

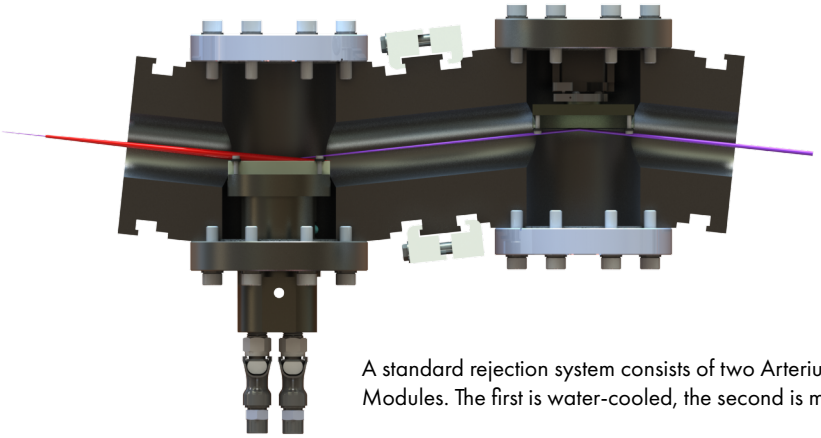
Features

- 6° Grazing angle (12° Beam deviation)
- EUV Reflection Effciency up to 95%
- IR Extinction >95%
- High Vacuum Compatible
- Zero-length module interconnection

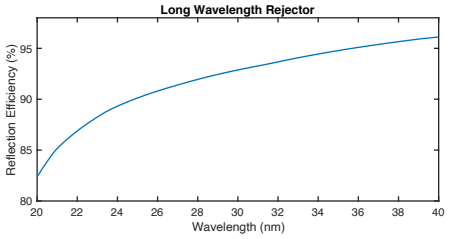
Options

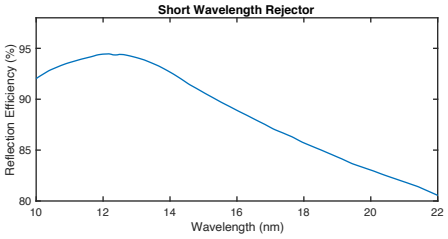
- Water-cooled (No variable steering)
- In-Vacuum motorized
- Fixed (No vairable steering)
- Plasma Cleaner
- Coating optimization:
  - Long Wavelength
  - Short Wavelength

Top View (Cross-section)



A standard rejection system consists of two Arterium Rejector Modules. The first is water-cooled, the second is motorized.





Specifications

EUV Reflection Efficency (6° Grazing Angle)	Up to 95%
IR Extinction	>95%
Flange Fittings	KF-40
Vacuum Rating	High Vacuum
Beam Height	4.5" (114.3mm)
Dimensions (mm) (for a Single Module)	216 L x178 W x 165 H

KMLABS™ inc.

www.kmlabs.com • 303-544-9068 • 4775 Walnut St., Suite 102 • Boulder, CO 80301