

Features

Typhoon purge

Stage return accuracy < 1.5 µm

Compatible with NWR193, NWR213, NWRfemto, and NWRimage

Elemental Scientific

LASERS

INNOVATION TO ILLUMINATE

The highest performing laser ablation chamber on the market

Efficient Typhoon purge mechanism enables stable operation after just 5 minutes and spatial reproducibility of <2% RSD

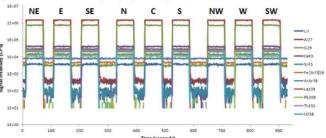
Non-cantilevered stages to accurately target features with minimal wear

Leak free operation with no complex corner seal and accessible tubing for easy replacement

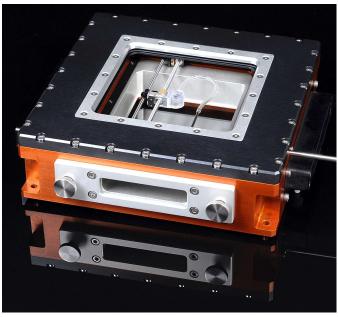
TwoVol2 Specifications summary



| Performance Specifications | |
|----------------------------|---|
| Signal Reproducibility | <2% RSD for a wide suite of elements in all positions in the chamber |
| Stage Return Accuracy | <1.5 µm short term <4 µm long term <1 µm long term with ImageLock |
| Working Area | 100 mm x 100 mm |
| Washout Time | 700 ms for 2 orders of magnitude of peak decay |
| Stages | High precision cross-roller with 0.16 µm step resolution |
| Chamber Mount | Direct without cantilever for consistent loading at all stage positions |
| Purge | Typhoon purge with dedicated bottom purge outlet for complete purge <5 minutes using only positive pressure |
| Gas Handling | Pinch valve for minimal aerosol disruption and easy cleaning compared to solenoids |
| Tubing | Constant curvature from ablation site to torch |
| Dual-camera Compatible | Compatible with main and wide- angle viewing systems for easy navigation |
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Positional reproducibility experiment on 9 NIST612 samples in edges, corners, and center of the chamber with <2% RSD



| Compatibility | |
|-----------------------------------|---|
| Platforms | NWR193, NWR213, NWRfemto, NWRimage |
| Additional Options | |
| CryoCell | For wet tissue and fluid inclusion analysis |
| Dual Concentric Injector (DCI) | For 10X improved washout times |
| Large Format | 150 mm x 150mm option available |
| Signal Smoothers | Glass signal smoother and Sentinel signal smoother |
| Sample Chamber Inserts | Spring-loaded options and custom inserts available |

