

ATLEX-LR Series



Optimized 193nm laser performance for LA-ICP-MS

Key Features:

- Extremely fast pulse rise-time and peak power density
- TMC (Total-Metal-Ceramic) Vessel
- Corona Preionization
- Laser Head Volume < 3 l
- Air-Cooled, Thermal Management
- Flushable Optics Holder
- Integrated 4-Valve System for Easy Gas Handling
- RS485, RS232, USB and FOC Interface for System Integration
- Energy Stabilization Unit
- Integrated Vacuum Pump & Halogen Filter
- Meets European CE Standard, RoHS Compliant



Technical Data

| Gas Medium | ArF | Units |
|---------------------------------------|--------------------------------------|-------|
| Wavelength | 193 | nm |
| High Voltage Switching Technique | Solid State Switch | |
| Maximum Pulse Energy ¹⁾ | 12 | mJ |
| Stabilized Pulse Energy | 4 | mJ |
| Stabilized Average Power | 1.2 | W |
| Max. Rep. Rate | 300 | Hz |
| Pulse Duration ²⁾ | 5 | ns |
| Beam Dimensions ²⁾ (V x H) | 4 x 6 | mm |
| Beam Divergence ²⁾ (V x H) | 1 x 2 | mrad |
| Energy Stability (Stand. Dev.) | < 2 | % |
| Dimensions (L x W x H) | 540 x 470 x 370 | mm |
| Weight | 60 | kg |
| Cooling | Air | |
| Power Requirements | 230 VAC / 6,3 A / 50-60 Hz / 1 Phase | |

All specifications are typical data and subject to change without notice due to product improvements.

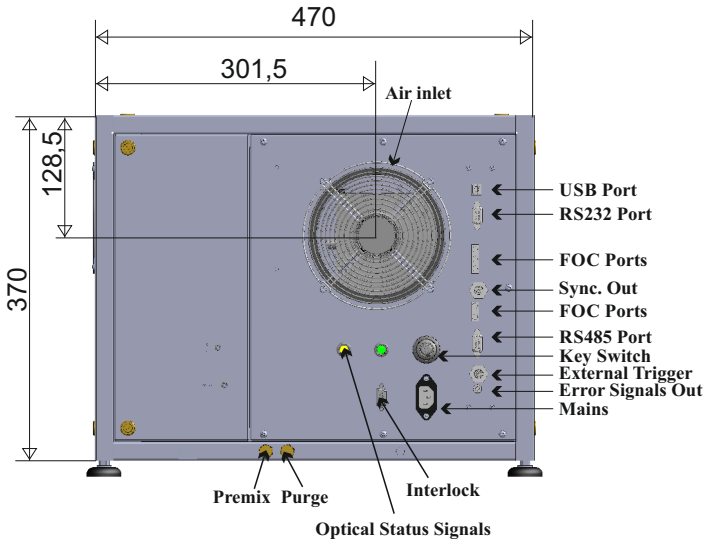
¹⁾ Measured at 20Hz; allow 10% reduction of output energy and power for laser equipped with stabilization mode

²⁾ Typical Value, FWHM

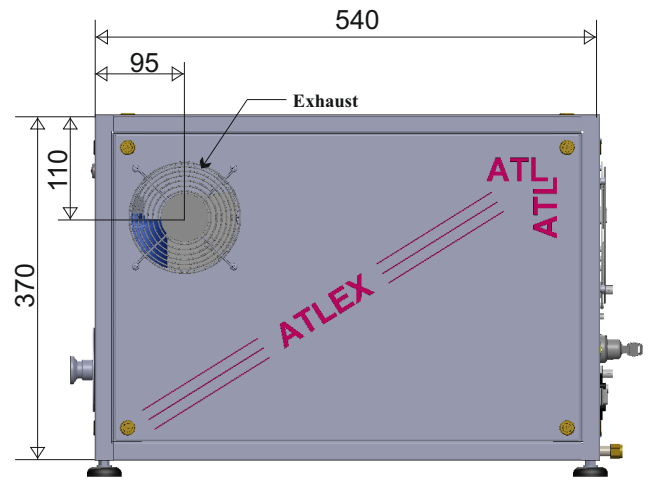
ATLEX-LR Series Dimensions



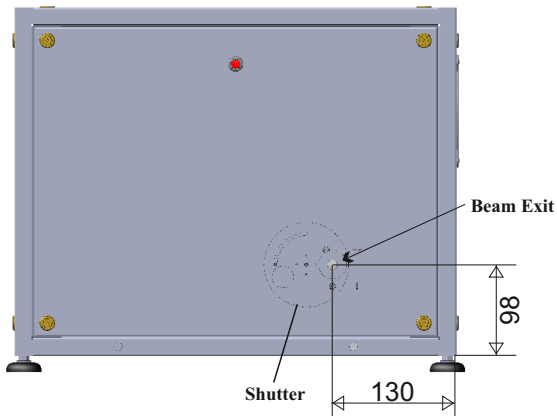
Rear view



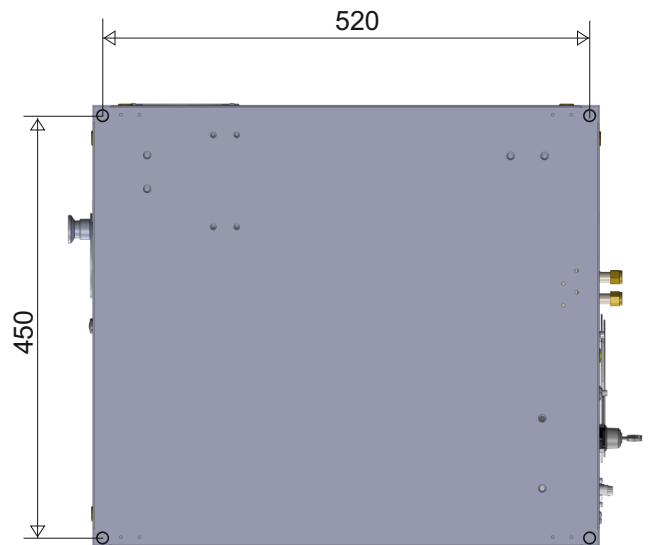
Side view



Front view



Bottom view



All dimensions in mm

ATLEX-LR complies with the Federal Regulations (21 CFR Subchapter J) as administered by the Center for Devices and Radiological Health.

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Visible and invisible Laser Radiation. Avoid eye or skin exposure to direct or scattered Radiation. CLASS IV Laser radiation product per EN60825-1 (1994).