

ATLEX-1000-I Series



Compact high repetition rate, air cooled excimer lasers.

Key Features:

- High Repetition Rate (up to 1000Hz)
- TMC (Total-Metal-Ceramic) Vessel
- Corona Preionization
- Solid State Switch
- 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 Mode
- Integrated Vacuum Pump & Halogen Filter
- Meets European CE Standard, RoHS Compliant



Technical Data

| Gas Medium | ArF | KrF | Units |
|---------------------------------------|-------------------------------------|--------------------|-------|
| Wavelength | 193 | 248 | nm |
| High Voltage Switching Technique | Solid State Switch | Solid State Switch | |
| Max. Rep. Rate | 1000 | 1000 | Hz |
| Max. Pulse Energy ¹⁾ | 10 | 15 | mJ |
| Max. Average Power | 8 | 10 | W |
| Pulse Duration ²⁾ | 5 - 8 | | 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.) | < 3 | | % |
| Dimensions (L x W x H) | 540 x 470 x 370 | | mm |
| Weight | 60 | | kg |
| Cooling | Air | | |
| Power Requirements | 230 VAC / 10 A / 50-60 Hz / 1 Phase | | |

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

¹⁾ measured at low rep. rates; allow 10% reduction of output energy and power for laser equipped with stabilization mode

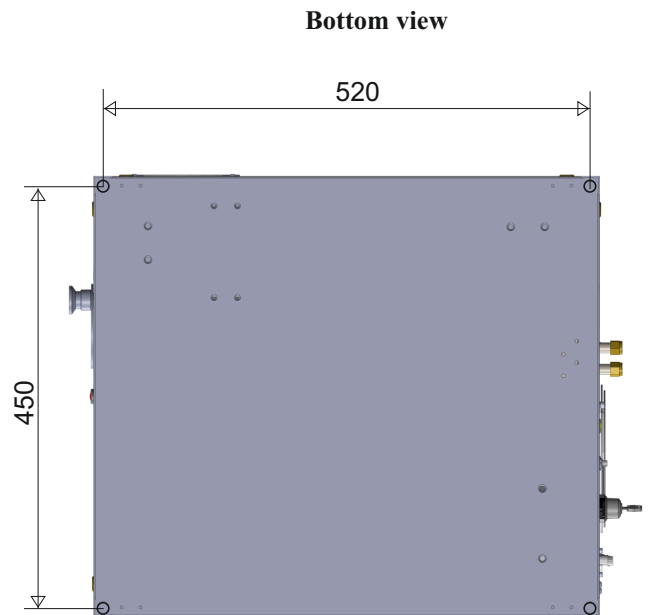
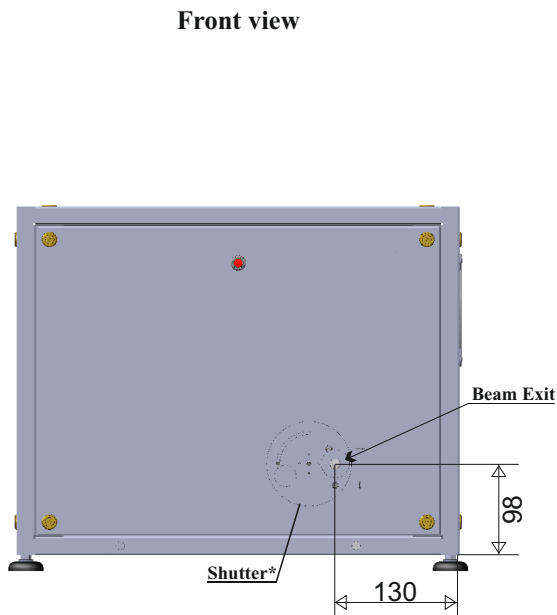
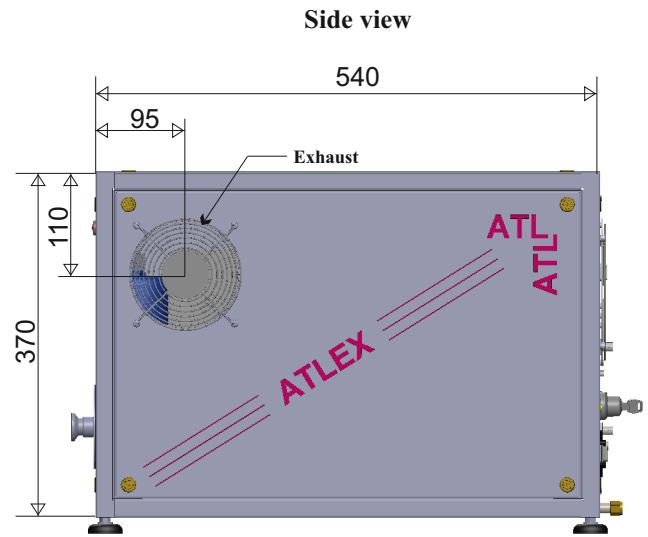
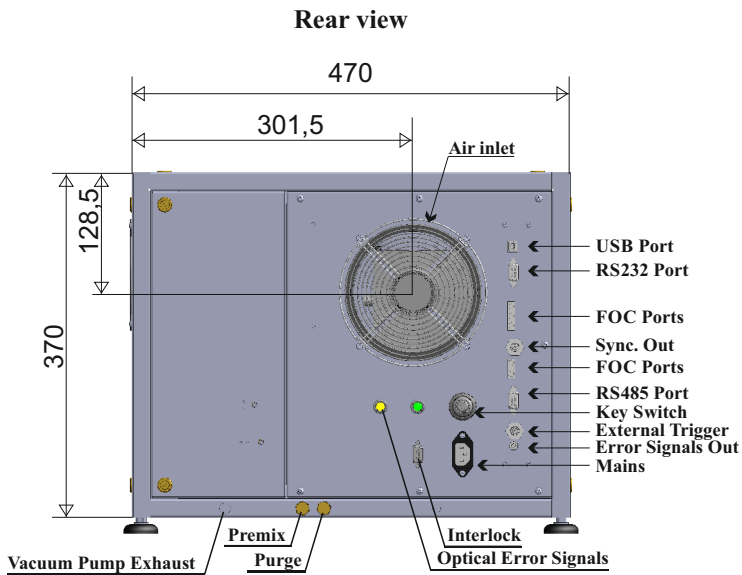
²⁾ Typical Value, FWHM

ATL LASERTECHNIK

Advanced Technology Lasers

ATLEX-1000-I Series Dimensions

ATL
ATL



*Optional

All dimensions in mm

ATLEX-1000-I 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).