

ATLEX-I Series



New generation of compact powerful air-cooled excimer lasers for scientific, medical and industrial applications.

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, optional Liquid Cooling
- 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	F ₂	ArF	KrF	XeCl	XeF	Units
Wavelength	157	193	248	308	351	nm
High Voltage Switching Technique	Solid State Switch					
Max. Pulse Energy ¹⁾	1	10	15	8	7	mJ
Max. Average Power						
ATLEX-300-I	0.2	2.4	4.0	2.0	1.7	W
ATLEX-500-I	0.5	4.0	6.5	3.0	2.5	W
ATLEX-1000-I		8.0	10.0			W
Max. Rep. Rate						
ATLEX-300-I	300					Hz
ATLEX-500-I	500					Hz
ATLEX-1000-I	1000					Hz
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.)	< 2					%
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.

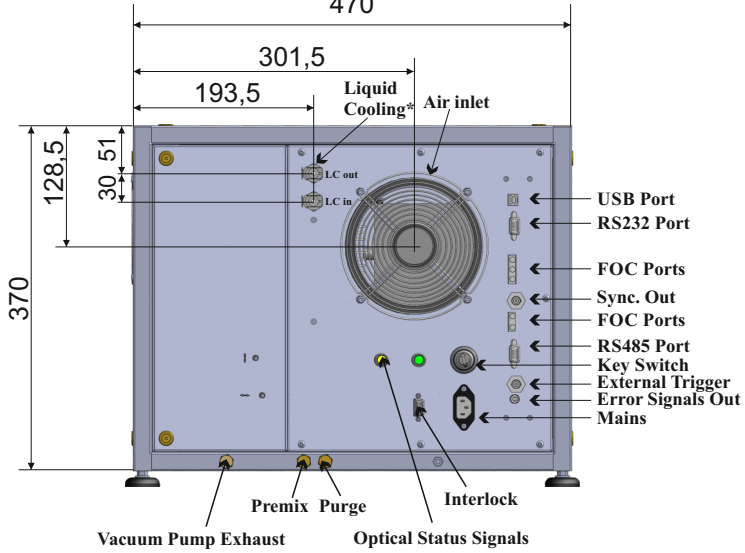
¹⁾ measured at low rep. rates; allow 10% reduction of output energy and power for laser equipped with stabilization mode

²⁾ Typical Value, FWHM

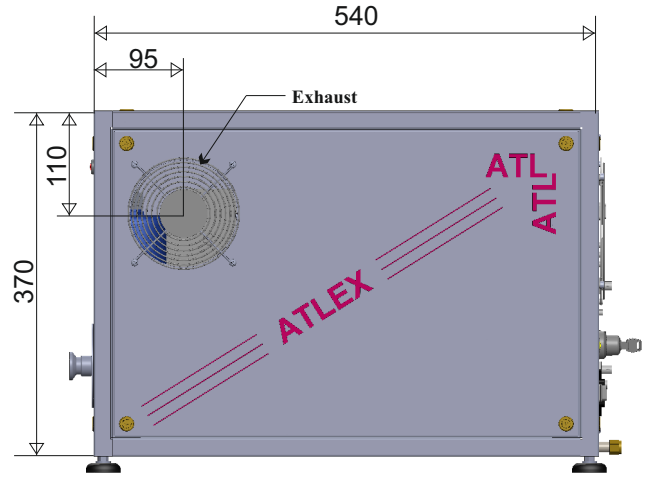
ATLEX-I Series Dimensions



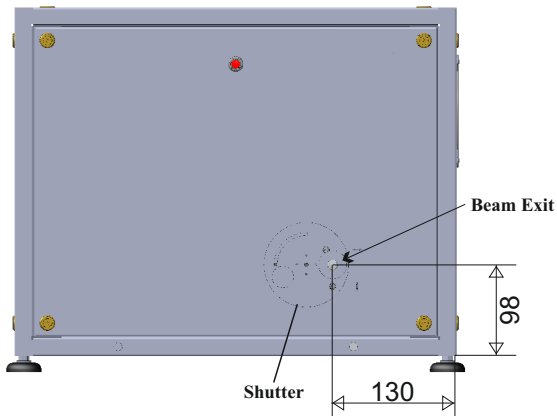
Rear view
470



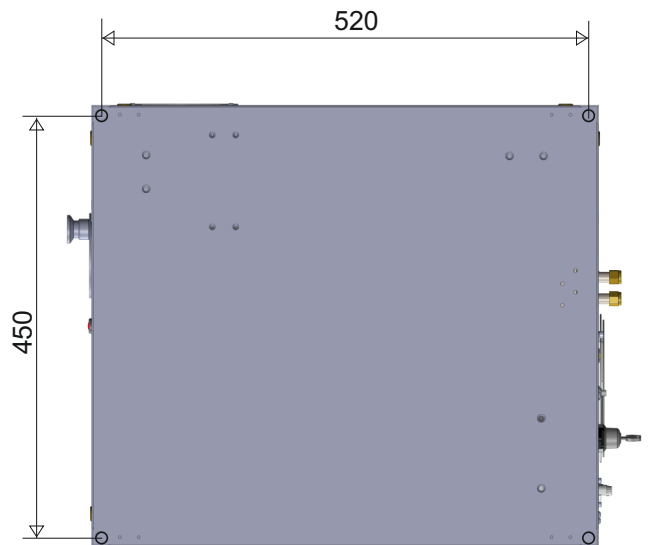
Side view



Front view



Bottom view



*Optional

All dimensions in mm

ATLEX-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).