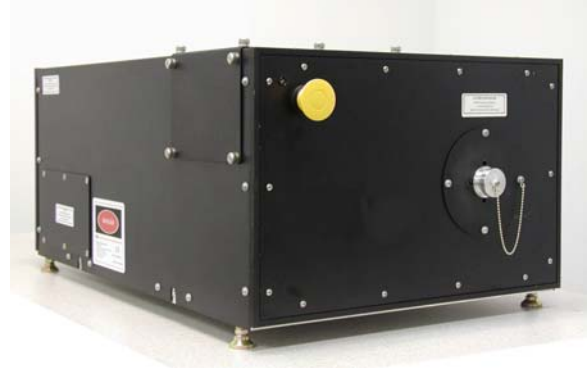


Excimer laser -Industrial Versions

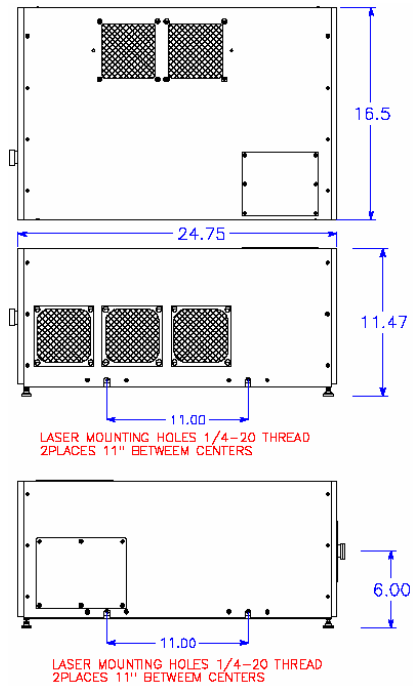
Total Metal/Ceramic **SUPERCHAMBER II** Industrial lasers feature additional technology to improve gas, optics and system lifetimes. Including

- ◆ High Speed Laser Blower
- ◆ Soft gas discharge
- ◆ Generation II Corona Pre-Ionization
- ◆ Active gas cleanup
- ◆ Industrial grade electronic power modules
- ◆ Beam line connections



EX10IN Specifications

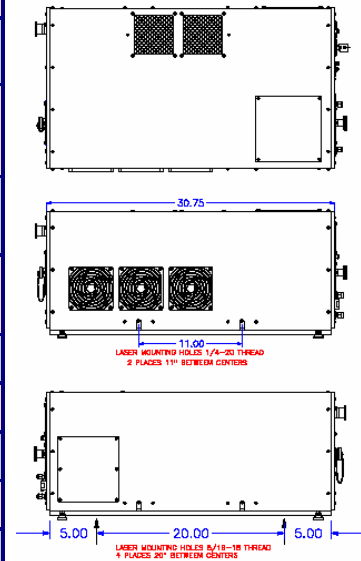
PARAMETER	ArF	KrF	XeCl	XeF
Wavelength nm	193	248	308	351
Energy Max. mJ	20	35	15	12
Energy Control Range, mJ	5-20	10-35	7-15	7-12
Average Power EX10IN/300	4.0	7.0	3.0	3.0
Average Power EX10IN/600	7.0	13.0	6.0	6.0
Average Power EX10IN/750	9.0	18.0	8.0	8.0
Repetition rate Hz	300/600/750			
Dynamic gas lifetime	20E6	35E6	20E6	20E6
Static gas lifetime to 50% energy	60 days	90 days	> 12 months	90 days
Pulse length, ns	15			
Beam Size, mm	8 x 3-4			
Divergence, mRad full angle	1 x 2			
Stability	< 2% standard deviation			
Cooling	Air			
Optics service	500E6	> 1 Billion	100E6	200E6
Tube service	> 3 Billion pulses			



Industrial Excimer Lasers

EX50IN Specifications

PARAMETER	F2	ArF	KrF	XeCl	XeF
Wavelength nm	157	193	248	308	351
Energy Max. mJ	2.5	35	50	20	20
Average Power @ 250Hz	0.5	5	10	5	5
Average Power @ 500Hz	1	10	20	9	9
Average Power @ 750Hz	1.5	14	28	12	12
Dynamic gas lifetime to 50% energy	10E6	20E6	35E6	20E6	20E6
Static gas lifetime to 50% energy	15 days	90 days	120 days	> 6 months	120 days
Pulse length, ns	10	17-20			
Beam Size, mm	9 x 4				
Divergence, mRad full angle	0.8 x 1.6				
Stability	< 2% standard deviation				
Cooling	Air/Water				
Optics service	1Billion	1 Billion	> 1 Billion	200E6	300E6
Tube service	3 Billion pulses				



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