

PRELIMINARY

FQCW 266-500

Diode Pumped Continuous Wave Solid State Laser

- **266 nm**
- **Continuous Wave**
- **Single Frequency**
- **Low Noise**
- **TEM₀₀**
- **Up to 500 mW**
- **Air Cooled**



spectroscopy • inspection • analytics • mastering

	Model	FQCW 266-500
Optical Data	Nominal Output Power	500 mW
	Output Power Adjustability	50 - 550 mW
	Wavelength	266 nm
	Linewidth	< 300 kHz
	Coherence Length	> 1000 m
	Beam Quality Factor M ²	< 1.3
	Polarization	vertical, > 500:1
	Beam Diameter	1 mm ± 20 %
	Beam Divergence (full angle)	< 0.45 mrad
	Beam Pointing Stability ¹⁾	< 3 µrad / K
	Static Alignment Tolerance	Position < ± 0.25 mm, Angle < ± 2.5 mrad
Optical Noise (1Hz - 100kHz)	< 1 % rms	
Optical Noise (100 kHz - 250 MHz)	< 0.5 % rms	
Electrical Data	Line Voltage	90 V - 250 V AC
	Power Consumption Mean (Max)	200 W (450 W)
	Communication Interfaces	USB / RS 232 / Ethernet
	Safety Equipment	key switch, interlock, shutter
Miscellaneous	Dimensions (control unit)	483 x 409 x 184 mm
	Weight (control unit)	11 kg
	Dimensions (laser head)	739 x 325 x 143 mm
	Weight (laser head)	35 kg
	Operating Temperature	20 °C to 30 °C non-condensing
Options	Warm-up Time (cold start)	< 45 minutes
	Purge Interface for Exit Window	CDA 1.5LPM, 50 PSI, SH<10PPM

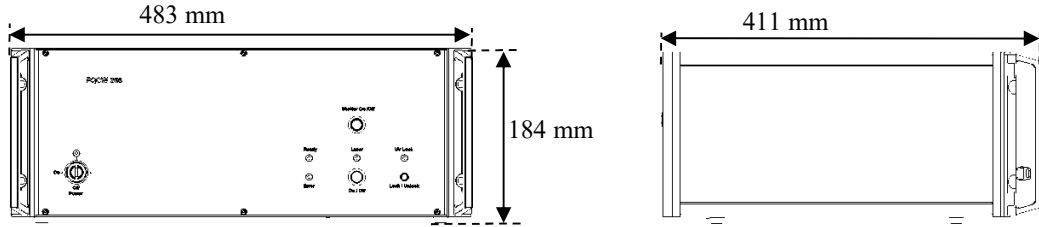
Notes

1. After 1 hour warm-up in the temperature range 20 - 30 °C, temperature change < 1 °C/hour.
2. Air cooling for laser head necessary according to installation manual..

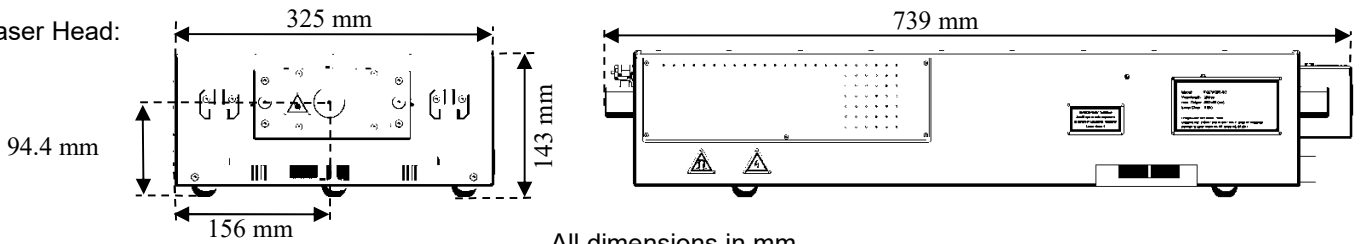
3. Laser has to be mounted on kinematic grooves according to installation manual.

Dimensions

Control Unit:



Laser Head:



All dimensions in mm

Laser Warning

The FQCW 266 lasers are class 4/IV according to IEC 60825-1:2007

