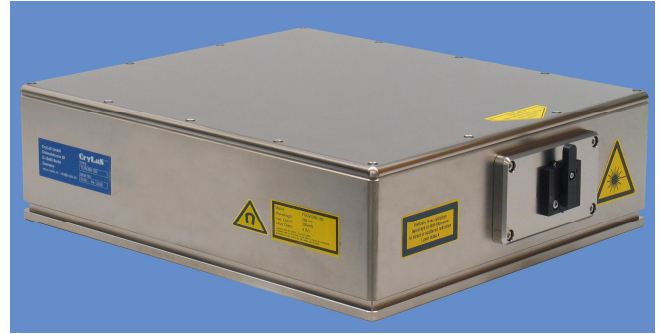




# FQCW 266-200

Diode Pumped Continuous Wave Solid State Laser

- 266 nm
- Continuous Wave
- Single Frequency
- Low Noise
- TEM<sub>00</sub>
- Up to 200 mW
- Conduction Cooling



**holography • inspection • analytics • lithography**

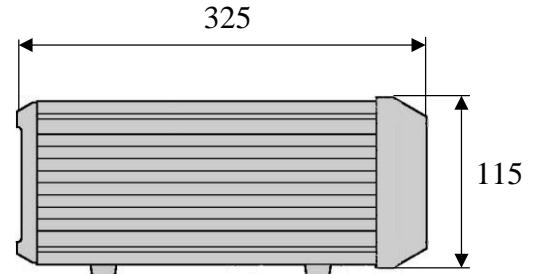
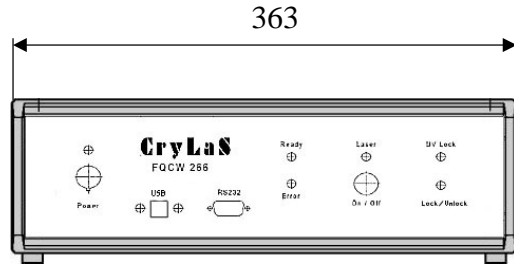
	Model	FQCW 266-200
<b>Optical Data</b>	Nominal Output Power	200 mW
	Output Power Adjustability	20 - 220 mW
	Wavelength	266 nm
	Linewidth	< 300 kHz
	Coherence Length	> 1000 m
	Beam Quality Factor M <sup>2</sup>	< 1.3
	Polarization	vertical, > 100:1
	Beam Diameter	0.55 mm ± 20 %
	Beam Divergence (full angle)	< 0.8 mrad
	Beam Pointing Stability <sup>1)</sup>	< 3 μrad / K
	Static Alignment Tolerance <sup>4)</sup>	Position < ± 0.25 mm, Angle < ± 2.5 mrad
	Power Stability <sup>1)</sup> (8 h, 1 s average)	< 1 % rms
Noise (100 kHz - 10 MHz)	< 0.5 % rms	
<b>Electrical Data</b>	Line Voltage	90 V - 250 V AC
	Power Consumption Mean (Max)	100 W (200 W)
	Communication Interface	USB / RS 232
	Safety Equipment	key switch, interlock
<b>Miscellaneous</b>	Dimensions (control unit)	363 x 325 x 115 mm
	Weight (control unit)	5.3 kg
	Dimensions (laser head)	379(+50) <sup>5)</sup> x 270 x 91 mm
	Weight (laser head)	17 kg
	Operating Temperature	20 °C to 35 °C non-condensing
<b>Options</b>	Warm-up Time (cold start)	< 15 minutes
	Purge Interface for Exit Window	CDA 0.5LPM, ~2%rH, particle filter 0.01μm

**Notes**

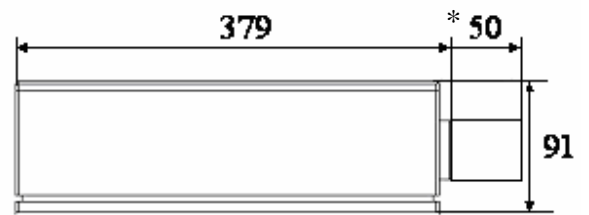
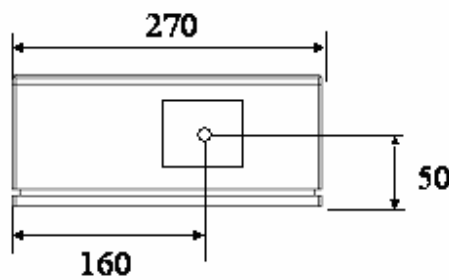
1. After 30 minutes warm-up in the temperature range 20 - 35 °C, temperature change < 1 °C/hour.
2. The exit window must be equipped optionally with a purge interface in case of external photo contamination.
3. This laser system is equipped with the Automatic Crystal Shifter (ACS).
4. Position and angle of static alignment tolerances are specified with regard to laser beam exit.
5. Length of laser head is +50mm expanding by using purge interface.

## Dimensions

Control Unit:



Laser Head:



\* +50mm for option purge interface

All dimensions in mm

## Laser Warning

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

