

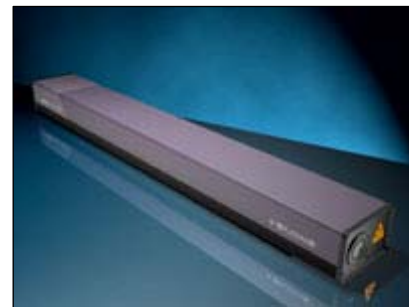
## Laser D-5AK

### Application:

- processing equipment;
- scientific research.

### Peculiarities:

- glass-ceramic laser tube;
- stabilized power supply based on converter equipment.



### Laser Emission Power\*, W, not less:

Wavelength Range, nm	TEMmn	Singlefrequency***
752.5-799.3	0.55 **	--
<b>457.9-676.4</b>	<b>5.0</b>	--
<b>647.1-676.4</b>	<b>1.3 **</b>	--
520.8-568.2	1.15 **	--
468.0-530.9	3.5 **	--
406.7-415.4	0.33 **	--
<b>One line, nm</b>	TEMoo	
799.3	0.12 **	
752.5	0.26 **	
676.4	0.22	
<b>647.1</b>	<b>1.2</b>	<b>0.6</b>
568.2	0.3 **	
530.9	0.35 **	
520.8	0.2 **	
<b>514.5</b>	<b>1.0</b>	<b>0.5</b>
501.7	0.24	
496.5	0.32	
<b>488.0</b>	<b>1.0</b>	<b>0.5</b>
482.5	0.11	
476.5	0.33	
476.2	0.08	
468.0	0.12	
457.9	0.2	
415.4	0.05 **	
413.1	0.15 **	
406.7	0.08 **	

\* Parameters are guaranteed for the lines in bold type, other parameters are the achieved emission power values in the TEMoo mode.

\*\* Changeable optics.

\*\*\* At the customer's order it is possible to produce a singlefrequency laser with any of the pointed wavelengths.

### Other Parameters

Polarization, not less *	100:1
Divergence, mrad, not more	1.2
Beam diameter at the distance 0.4 m from the laser head, not more	2.5
Supply (3F+N+G), V, Hz	380\220±10%, 50
Consumed power, kW, not more	28
Laser head cooling	water
Water discharge, l/min, not less	17
Water pressure, kg\cm <sup>2</sup> , not more	4.0
Power supply cooling	water
Water discharge, l/min, not less	3
The temperature of the cooling water, °C, not more	30

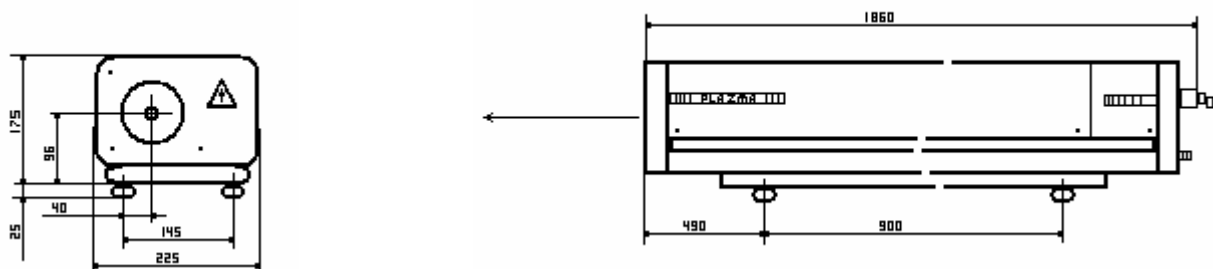
Warranty operating time, hours, not less	500
Average resource, hours, not less	5000
Laser head mass, kg, not more	60
Power supply mass, kg, not more	55
Water filter mass, kg, not more	3.0
Control panel mass, kg, not more**	1.5

\* For the laser **D-5AK** at the customer's order, vector **E** orientation can be performed both in vertical and horizontal planes, or there can be made the production of the laser without polarization in multilinear operation mode.

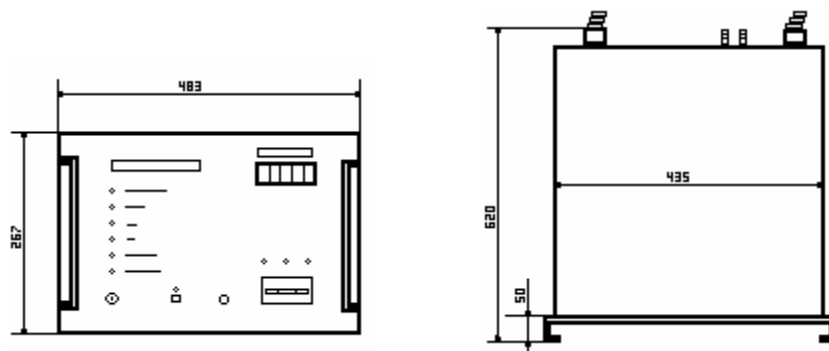
\*\* The control panel is delivered at the customer's demand.

## Outline Drawing

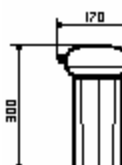
### *Laser Head*



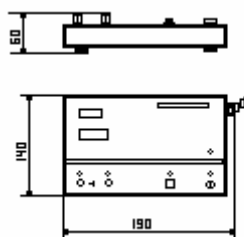
### *Power Supply*



### *Water Filter to the Laser Head*



### *Control Panel*



- Plait Length:**
1. Laser head — power supply, 2.5 m.
  - 2\*. Supply line, 2.5 m.
  - 3\*. Control panel — power supply, 2.5 m.
  - 4\*. Water hoses, 12 m.
- \*---Plait lengths are specified by the customer.

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