

## Laser LGN-514M

### Application:

- technological equipment;
- scientific research.

### Peculiarities:

- glass-ceramic laser tube ;
- compact laser head.

### Laser Emission Power, mW, not less:

Wavelength, nm	Ar	Kr	Ar +Kr
	TEMmn	TEMmn	TEMmn
<b>Wavelength Range</b>			
<b>457.9-514.5</b>	<b>800</b>	---	<b>200</b>
<b>647.1-676.4</b>	---	<b>250</b>	<b>155</b>
350.7-356.4	---	5	---
<b>One Line</b>	TEMoo	TEMoo	TEMoo
676.4	---	50	20
<b>647.1</b>	---	<b>250</b>	<b>70</b>
568.2	---	30**	20**
530.9	---	46**	25**
520.8	---	30**	10**
<b>514.5</b>	<b>250</b>	---	<b>50</b>
501.7	40	---	8
496.5	90	---	20
<b>488.0</b>	<b>250</b>	---	<b>50</b>
482.5	---	15**	5
476.5	50	---	15
476.2	---	15**	5
472.7	27	---	6
465.8	20	---	5
457.9	30	---	6
455.4	6	---	---
356.4	---	1**	--
350.7	---	2**	--

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

\*\*Changeable optics.

### 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, mm, not more	1.3
Power instability within 0.5 hours, %, not more	±1
Noises and pulsations in the range 10 Hz ± 2MHz, %, not more	1
Supply (3F+N+G), V, Hz	380\220±10%, 50
Consumed power, kW, not more	3.5
Laser head cooling	water
Water discharge, l/min, not less	5
Water pressure, kg/cm <sup>2</sup> , not more	2.0
Warranty operation time, hours, not less	500

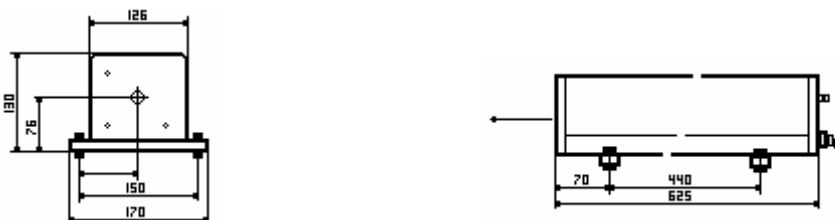
Average resource, hours, not less	5000
Power supply weight, kg, not more	30
Laser head weight, kg, not more	15
Control panel weight, kg, not more**	1.5
Water filter weight, kg, not more	3

\*At the customer's order for the model LGN-514 vector E orientation can be made either in vertical or in horizontal planes or without polarization in multiline operation mode.

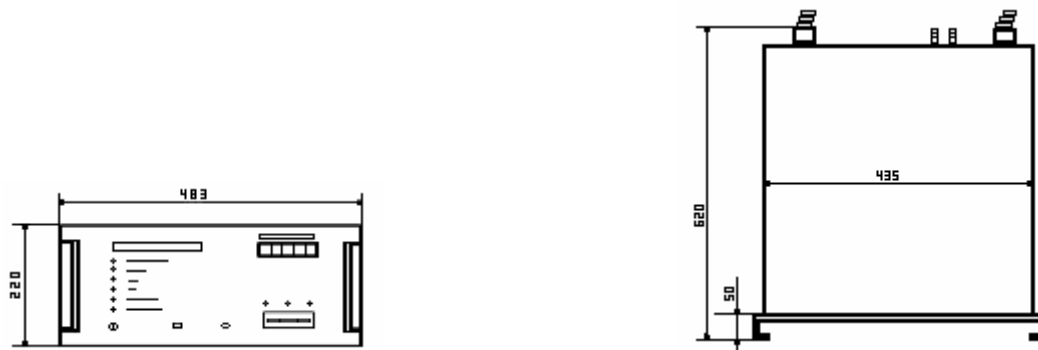
\*\*Control unit is delivered at the customer's order.

## **Outline Drawing**

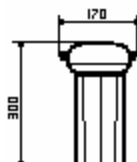
### ***Laser Head***



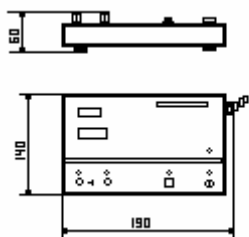
### ***Power Supply***



### ***Water Filter to the Laser Head***



### ***Control Unit (is delivered at the customer's order)***



Cable length: 1. Laser head — power supply, 2.5m,

2\*. Supply, 2.5m,

3\*. Water hoses, 12m.

\*-cable lengths are specified by the customer

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