am.co.za TruCUT Laser Tube Datasheet

Standard Series Sealed CO_2 Glass Laser Tube

SKU	RP	MP	LEN	DIA	TV	WV	IC	MC	SL & OC		BD	DA	M2	C
LC-TUBE/30	30													
LC-TUBE/40	40		700	50										
LC-TUBE/60	60		1200	55	24	16					4.5	1.62	1.065	
LC-TUBE/80	80		1250	80	28	23	28	28	5000	25	5.5	1.6	1.060	•
LC-TUBE/100	100		1450	80	30	26	30	28	5000	26	5.5	1.55	1.050	•
LC-TUBE/130	130		1650	80	40	28	30	28	5000	28	5.5	1.5	1.040	•
LC-TUBE/150	150		1850	80	40	28	32	30	5000	28	6	1.5	1.040	•
LC-TUBE/180	180		2050	80	40	28	32	30	5000	28	6	1.5	1.040	•

Premium Series Sealed CO_2 Glass Laser Tube

SKU	RP	MP	LEN	DIA	TV	WV	IC	MC	SL & OC		BD	DA	M2	C
LC-TUBE/P80	80	90	1050	80					10000					•
LC-TUBE/P90	90	100	1250	80					10000					•
LC-TUBE/P100	100	130	1450	80					10000					•
LC-TUBE/P130	130	160	1650	80					10000					•
LC-TUBE/P150	150	180	1850	90					10000					•

Terms

- SKU — The Code of AM.CO.ZA Products, call 072 222 2211 / 060 600 6000 for Prices
- RP — Rated Power in Watt reached at Operating Current (OC) with 5% tolerance
- MP — Maximum Power in Watt reached at Maximum Current (MC) with 10% tolerance
- LEN — Tube Length in mm, with ±20mm tolerance
- DIA — Diameter of the Tube in mm, with ±2mm tolerance
- TV — Trigger Voltage in Kilovolts
- WV — Working Voltage in Kilovolts
- IC — Input Current in mA
- MC — Maximum Operating Current in mA, on same Wattage Power Supply
- SL & OC — Designed Service Life in Continues Hours and Correspondent Operating Current in mA, with Efficient Water Cooling and Working Temperature not Higher than 25°C
- BD — Diameter on Laser Beam in mm, with ±0.5mm tolerance
- DA — Divergence Angle of Bean in milliradians (mrad)
- M2 — Beam Quality Factor or M^2, the Degree of Variation of a Beam from an Ideal Gaussian beam
- C — Indicate whether the Discharge Tube has been Galvanized with Catalyst Coating

Laser Tube Warranty

We provide 3 month warranty for Standard Series and 6 month warranty for Premium Series.

A process of examining of- and feedback to- the laser tube manufacture is required for us to decide the laser tube condition is to be processed in line with the warranty. Preconditions exist for laser Tube warranty, please carefully read and understand those conditions which listed at http://am.co.za/laser/tube/warranty

am.co.za TruCUT Laser Tube Installation Suggestions

<table>
<tr><th>Tube Wattage</th><th>Power Supply</th><th>Maximum Current</th><th>Minimal Cooling</th><th>Suggested Cooling</th></tr>
<tr><td rowspan="2">30W</td><td>LC-POWER/40</td><td>13 mA</td><td rowspan="11">AG-WATER
Generic Submersible Water Pump. Water bucket required.

NO-RUST/15, NO-RUST Additive Liquid for Cooling and Protection 1.5kg Bottle Suggested.

Change water at least once a month.</td><td rowspan="3">AG-WATER</td></tr>
<tr><td>LC-POWER/60</td><td>12 mA</td></tr>
<tr><td rowspan="3">40W</td><td>LC-POWER/40</td><td>15 mA</td></tr>
<tr><td>LC-POWER/60</td><td>12 mA</td></tr>
<tr><td>LC-POWER/90</td><td>12 mA</td></tr>
<tr><td rowspan="3">60W</td><td>LC-POWER/60</td><td>20 mA</td><td rowspan="3">A-COOLER
AM-3000 Thermolysis Water-Cooled Chiller NO-RUST/15 Suggested.

Change water at least once every three month.</td></tr>
<tr><td>LC-POWER/90</td><td>18 mA</td></tr>
<tr><td>LC-POWER/100</td><td>16 mA</td></tr>
<tr><td rowspan="3">80W</td><td>LC-POWER/90</td><td>22 mA</td></tr>
<tr><td>LC-POWER/100</td><td>20 mA</td></tr>
<tr><td>LC-POWER/150</td><td>16 mA</td></tr>
<tr><td rowspan="3">90W</td><td>LC-POWER/90</td><td>23 mA</td><td rowspan="6">A-CHILLER/800
AM-5000 800W Water Chiller with Air Compressor NO-RUST/15 Suggested.

Change water at least once every three month.</td></tr>
<tr><td>LC-POWER/100</td><td>21 mA</td></tr>
<tr><td>LC-POWER/150</td><td>17 mA</td></tr>
<tr><td rowspan="3">100W</td><td>LC-POWER/100</td><td>24 mA</td><td rowspan="3">A-COOLER</td></tr>
<tr><td>LC-POWER/150</td><td>20 mA</td></tr>
<tr><td>LC-POWER/180</td><td>16 mA</td></tr>
<tr><td rowspan="2">120W</td><td>LC-POWER/150</td><td>26 mA</td><td rowspan="4">A-CHILLER/800</td></tr>
<tr><td>LC-POWER/180</td><td>22 mA</td></tr>
<tr><td rowspan="2">130W</td><td>LC-POWER/150</td><td>28 mA</td><td rowspan="5">A-CHILLER/1400
AM-5200 1400W Water Chiller with Air Compressor Only use NO-RUST/15 as cooling media suggested.

Change cooling media at least once every three month.</td></tr>
<tr><td>LC-POWER/180</td><td>25 mA</td></tr>
<tr><td rowspan="2">150W</td><td>LC-POWER/150</td><td>30 mA</td><td rowspan="4">A-CHILLER/1400</td></tr>
<tr><td>LC-POWER/180</td><td>28 mA</td></tr>
<tr><td rowspan="2">160W</td><td>LC-POWER/150</td><td>30 mA</td></tr>
<tr><td>LC-POWER/180</td><td>28 mA</td></tr>
<tr><td rowspan="2">180W</td><td>LC-POWER/150</td><td>32 mA</td></tr>
<tr><td>LC-POWER/180</td><td>30 mA</td></tr>
</table>

Bolded text of laser power supply is the default Power Supply if you purchase laser machine from us.

Maximum allowed current is to ensure longer lifespan of the laser tube, its required setup for laser tube warranty. For Laser Power Supply from us, LC-POWER/90 and upwards have the ability to adjust output current. Besides control current by Power Supply, you can also lower the percentage of output to lower the current.