

FSL 300

USER MANUAL



Safety Warning:



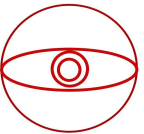
Do not leave your machine unattended.

Avoid using machines made of carbon or that contain carbon components.



Always keep a fire extinguisher and first aid kit nearby.

Do not attempt to access any electrical areas while the machine is on. Unplug the machine and wait for an hour before accessing panels.



Never stare directly into the laser when running a project. Always wear the provided safety goggles.



Inspect your machine before each use. Do not use if the machine or its accessories are damaged in any way.

Always maintain a clean work area.

Looking for financing or eager to buy, contact Sales:



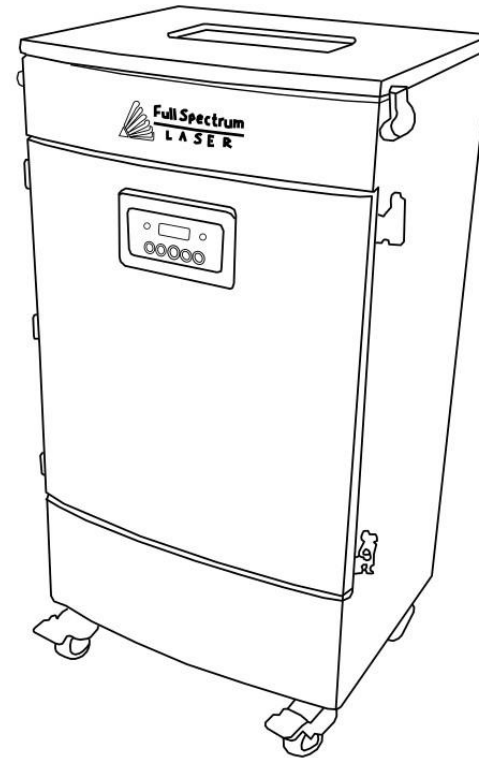
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sales@fslaser.com
702-802-3101

Need help, visit us at our [Help Center](#) or contact Support:



M-F 8AM-5PM PST
support@fslaser.com
702-802-3103

Diagrams:



Air Intake Size:

(2x) 4" duct

Input Voltage:

AC110V

Maximum Power:

700W

Noise:

<75 dB

Typical Flow Rate:

365 CFM

Dimensions:

21.6" x 16.3" x 51.2"

Weight:

165 lbs

Filter Installation:

Filters are installed in the following order:

Active Carbon Filter
HEPA Filter
Pre-Filter

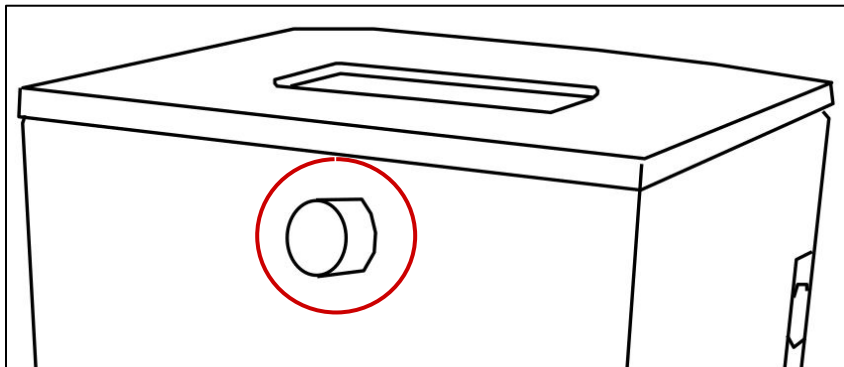
Maintaining Filters:

Pre-Filters: Clean often using a shop vacuum. Check weekly, especially if cutting a lot of wood. When about 70% of accumulated debris remains after cleaning, replace.

HEPA Filters: Clean immediately when suction seems reduced, using the shop vacuum. When cleaning does not return optimal suction power, it is time to replace it.

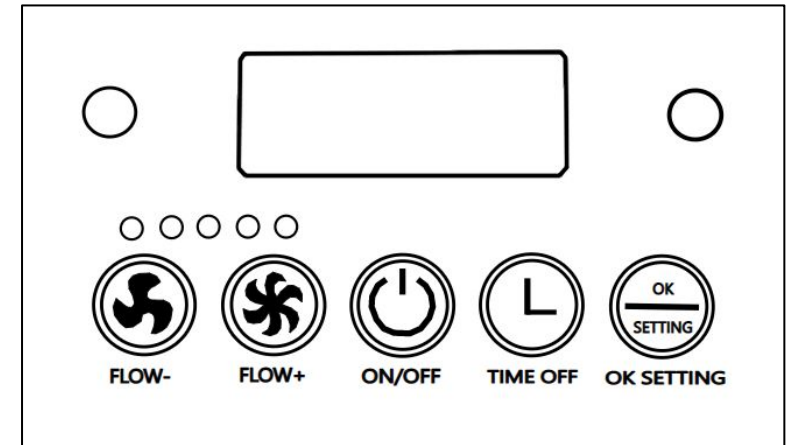
Activated Carbon Filters: Clean when odors are detected or suction is reduced. Shake to remove excess dust and debris before proceeding with the shop vacuum. When cleaning no longer eliminates detectable odors, replace Activated Carbon Filters.

Ducting Installation:



1. Pull out the ducting tube.
2. Install one end of the ducting onto the top of the Fume Extractor.
3. Install the other end onto the machines exhaust.

Control Panel:



Flow+ / Flow- Button:

Press this button while the machine is running to increase the fan speed. The number on the digital display will increase in multiples of 10, with a maximum number of 100 indicating the machine is running at full speed. The fan speed should be set to effectively remove smoke. If there is lingering smoke during cutting, increase the fan speed. However, setting the fan speed too high may cause the material to lift up and be pulled toward the created vacuum.

Time Set Button:

While the machine is running, press the Timer Set button. The digital display will show HXXX, where H represents the countdown in hours. The time can be set to a maximum of 300 hours and a minimum of 1 hour. The Flow+/Flow- buttons can be used to adjust the shutdown timing, then press the Timer Set button again, and start the countdown timer.

For example, H005 represents that the machine will shut down automatically in 5 hours. This function is useful at the end of the day when you want to turn off the laser but continue cleaning any remaining smell residues inside the machine.

Ok/Setting Button:

If the machine is in alarm status and the buzzer sounds, press the Ok/Setting button to turn off the alarm. If the machine is not in alarm status, press the button to check the total working hours of the machine.

Troubleshooting:

Q: My machine works but the airflow is weak and suction power is significantly reduced. What is the issue?

A: The cause may be a blocked air inlet or foreign object in the duct. To resolve the issue, turn off the power, open the top cover, and check for any obstructions in the air inlet or the air vent.

Another cause could be a saturated or blocked filter triggering an alarm. If the suction power of the empty-loaded machine is normal, it may indicate that the filter needs to be replaced.

Q: The machine shuts down automatically shortly after starting. I restarted it but nothing changed. What could be wrong?

A: The cause may be an obstruction in the airflow through the machine, causing the fan's starting current to be too high and triggering an automatic shutdown for self-protection. Try turning off the power, open the top cover, and check for any obstructions in the air inlet or consider replacing the filters.

Q: The power switch is ON, but the machine does not run. Why is it not working?

A: Does the power indicator light up? If it does not, then the cause may be a faulty fuse. You can replace the fuse by popping it out from the power socket using a flat head screwdriver and installing a new one.

If your having an issue not listed here, visit our [Help Center](#). We provides comprehensive videos, and useful resources for troubleshooting to helping you get the most out of your investment in our products.

Support:

We offer a variety of free projects to help you get started, just check out our [Free Projects](#) page.

For more information on laser engraving, check out our [Blog](#) .

Financing:
We work to provide a perfect option for any budget.

For more information contact sales:



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Technical Support:
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Contact support:

Contact Information:

Phone: (702) 802 - 3100
Fax: (702) 987 - 0150

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