

ATOMSTACK MAKER F60

ATOMSTACK F60 Air Assist Set User Manual

Model: F60

1. INTRODUCTION

The ATOMSTACK F60 Air Assist Set is designed to enhance the performance of ATOMSTACK laser engraving and cutting machines. It effectively removes smoke and dust generated during laser operations, ensuring cleaner cuts, improved engraving quality, and prolonged laser energy stability. This manual provides essential information for the proper setup, operation, and maintenance of your F60 Air Assist Set.

2. KEY FEATURES

- **Impeccable Cutting:** Utilizes a powerful airflow to instantly clear smoke, keeping the cutting surface clean and preventing discoloration. It also rapidly reduces the surface temperature of the material, preventing over-burning for cleaner and smoother cut sections.
- **Enhanced Design:** Second-generation air assist accessory with a larger chamber, increased heat dissipation area, and adjustable airflows from 10 to 60 L/min. This ensures stable laser energy for superior engraving and cutting results.
- **Automatic Switching:** Allows for automatic air assist switching for different tasks, optimizing engraving and cutting effects, simplifying operation, and significantly extending the lifespan of the air assist.
- **Quiet Operation:** Operates at only 60 dB, similar to a household electric fan, providing a quiet environment for laser engraving and cutting.
- **Easy Installation:** Designed for straightforward setup in just two steps, requiring no additional accessories.

3. COMPATIBLE MODELS

The ATOMSTACK F60 Air Assist Set is compatible with the following ATOMSTACK laser engraving and cutting machine series:

- Atomstack A6 Pro / X6 Pro
- Atomstack A12 Pro / X12 Pro
- Atomstack A24 Pro / X24 Pro

- Atomstack A20 / S20 / X20 Series
- Atomstack A30 / S30 / X30 Series
- Atomstack A40 / S40 / X40 Series
- Atomstack A70 / S70 / X70 Series

4. SETUP GUIDE

Follow these general steps to set up your ATOMSTACK F60 Air Assist Set. Refer to your specific laser engraver's manual for detailed integration instructions.

1. **Unpacking:** Carefully remove all components from the packaging. Verify that all parts listed in the product's packing list are present.
2. **Placement:** Position the F60 Air Assist unit on a stable, flat surface near your laser engraving machine. Ensure adequate ventilation around the unit.
3. **Connection to Laser Head:** Connect the air hose from the F60 Air Assist to the designated air assist nozzle on your laser engraver's laser head. Ensure a secure and airtight connection.
4. **Power Connection:** Connect the power adapter to the F60 Air Assist unit and then plug it into a suitable power outlet.

ATOMSTACK F60 Air Assist

AtomStack's second-generation air assist accessory with a larger chamber, increased heat dissipation area, adjustable airflows from 10-60 L/min.



Image: The ATOMSTACK F60 Air Assist unit positioned next to a laser engraving machine, demonstrating its typical setup and connection.

5. OPERATING INSTRUCTIONS

The ATOMSTACK F60 Air Assist is designed for user-friendly operation.

- **Power On/Off:** Once connected to power, the unit is ready for operation. There is typically a power switch or it activates with the laser machine.
- **Adjusting Airflow:** The F60 features an adjustable airflow knob, allowing you to set the air volume from 10 L/min to 60 L/min. Rotate the knob clockwise to increase airflow and counter-clockwise to decrease it. Optimal airflow depends on the material and the specific laser operation (engraving vs. cutting).
- **Automatic Switching:** For compatible ATOMSTACK laser machines, the F60 Air Assist can automatically adjust its airflow based on the task being performed, optimizing performance without manual intervention. Refer to your laser machine's software settings for enabling and configuring this feature.



Image: A clear view of the ATOMSTACK F60 Air Assist unit, highlighting the adjustable airflow knob on its top surface.

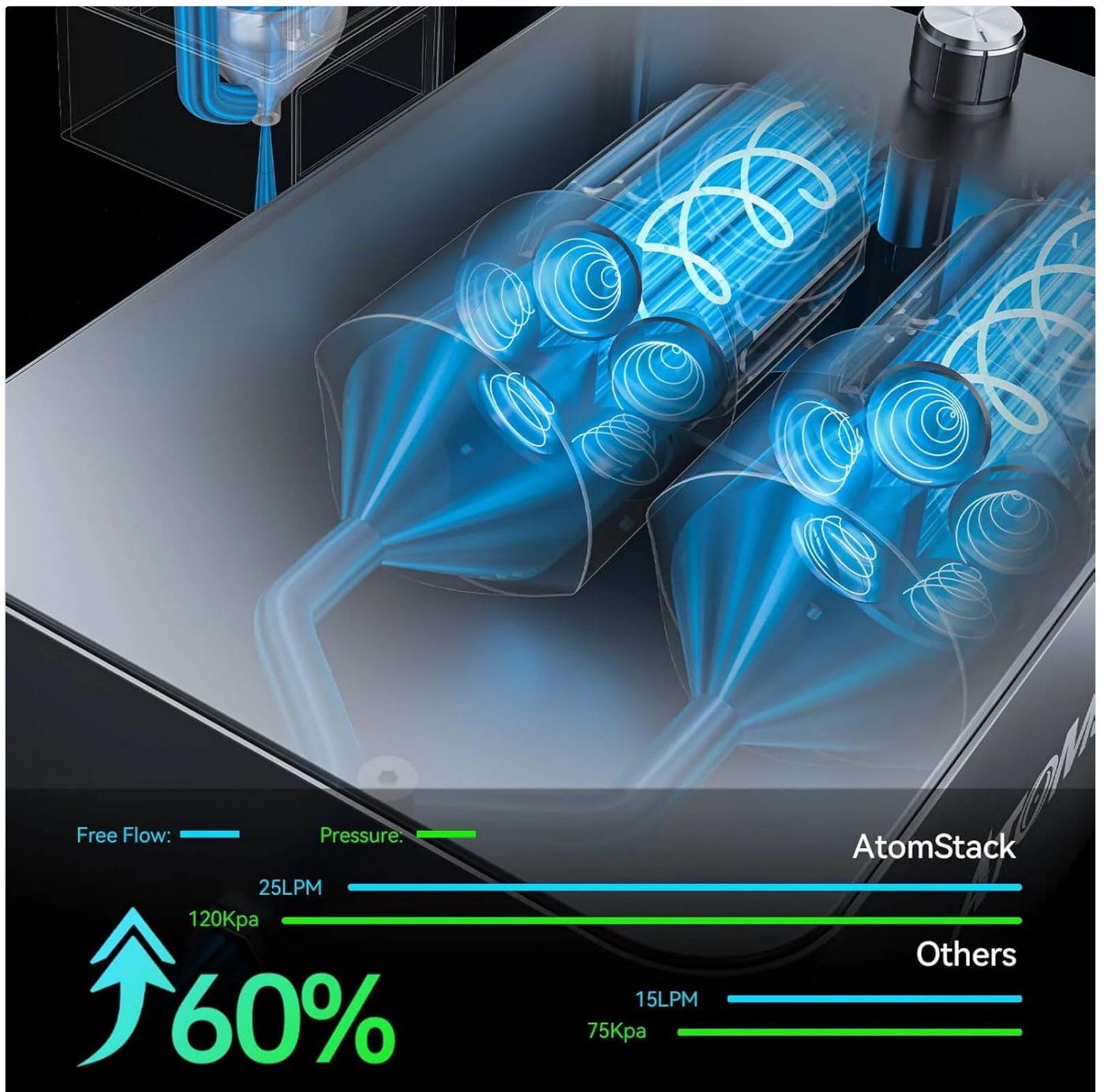


Image: An illustrative diagram detailing the internal dual-pump airflow mechanism of the ATOMSTACK F60, comparing its free flow and pressure capabilities against other systems.



Image: A side-by-side comparison demonstrating the superior cleanliness and quality of laser-cut wood when using the ATOMSTACK F60 Air Assist (left) versus without air assist (right).

6. MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your F60 Air Assist Set.

- **Cleaning:** Periodically wipe down the exterior of the unit with a soft, dry cloth to remove dust and debris.
- **Air Filter (if applicable):** While the F60 features an anti-clogging design, if your model includes a removable air filter, inspect and clean or replace it as per the manufacturer's recommendations to maintain optimal airflow.
- **Hose Inspection:** Regularly check the air hose for any kinks, cracks, or blockages that could impede airflow. Ensure connections remain secure.

7. TROUBLESHOOTING

This section addresses common issues you might encounter with your F60 Air Assist Set.

Problem	Possible Cause	Solution
No airflow or weak airflow	Power not connected or unit not turned on. Air hose kinked or blocked. Air nozzle on laser head clogged. Airflow knob set too low.	Ensure power adapter is securely plugged in and unit is powered on. Check and straighten the air hose; clear any obstructions. Clean the air nozzle on your laser head. Rotate the airflow knob clockwise to increase airflow.
Excessive noise during operation	Unit not on a stable surface. Airflow set to maximum (60 L/min).	Place the unit on a firm, level surface. While the unit is designed for quiet operation, higher airflow settings may produce more sound. Adjust airflow to a lower setting if possible for your task.
Smoke/debris not clearing effectively	Insufficient airflow. Incorrect positioning of air nozzle.	Increase the airflow using the adjustment knob. Ensure the air nozzle on your laser head is correctly aligned to direct airflow effectively at the cutting/engraving point.

8. SPECIFICATIONS

Attribute	Detail
Model Number	F60
Manufacturer	ATOMSTACK MAKER
Airflow Adjustment	10 - 60 L/min
Noise Level	Approximately 60 dB
Power Source Type	AC
Included Components	1 ATOMSTACK F60 Dual Air Assist Pump

9. WARRANTY AND SUPPORT

Specific warranty information for the ATOMSTACK F60 Air Assist Set is not provided in this manual. For details regarding warranty coverage, technical support, or spare parts availability, please contact ATOMSTACK MAKER directly through their official website or the retailer from whom you purchased the product.

It is recommended to retain your proof of purchase for any warranty claims.

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question