xTool IF2 2.0

xTool SafetyPro IF2 2.0 Hyper Flow Inline Duct Fan User Manual

Model: MXA-K013-001

1. SAFETY INFORMATION

Please read all safety instructions carefully before operating the xTool SafetyPro IF2 2.0. Failure to follow these instructions may result in electric shock, fire, or serious injury.

- **Electrical Safety:** Ensure the power supply matches the fan's requirements. Do not operate with damaged cords or plugs.
- **Ventilation:** Always ensure proper ventilation when using the fan, especially when connected to a laser engraver. Exhaust fumes must be directed outdoors or into an appropriate filtration system.
- **Water Exposure:** The main unit is not waterproof. While the fan components are washable, ensure the main electrical connections and motor housing remain dry.
- **Children and Pets:** Keep the device out of reach of children and pets.
- **Maintenance:** Disconnect power before performing any maintenance or cleaning.

2. PRODUCT OVERVIEW

The xTool SafetyPro IF2 2.0 is a high-performance inline duct fan designed for efficient smoke and fume extraction, particularly for laser cutting and engraving applications. It features dual high-speed fans and intelligent control for optimal performance.

2.1 Key Features

- **Unmatched Smoke Extraction Efficiency:** Two ultra-speed 14,000 RPM fans generate 135 CFM airflow with up to 1300 Pa pressure.
- **Compact Design:** Integrated smart EC motor design in a compact 5-inch body.
- **Auto-Sync Control:** Wirelessly connects with xTool laser engravers for hands-free operation and intelligent power/airflow adjustment.
- **Easy Maintenance:** IP55 rated for easy disassembly and cleaning of fan components.
- **Quiet Operation:** Built-in sound-absorbing cotton reduces operating noise.

- **Flexible Installation:** Retractable 2.3-meter durable PP tube.

2.2 Components

- SafetyPro IF2 2.0 Unit
- Bluetooth dongle
- Hex key
- Pipe connector 1
- Pipe connector 2
- Pipe clamp
- Ribbed plastic anchors (8x)
- Screws (8x)
- Wall-mounting fixture
- Smoke exhaust pipe (2.3m)

IF2 2.0 vs. IF2 Comparison

	xTool SafetyPro™ IF2 2.0	xTool SafetyPro™ IF2
Design	All-in-One Design	Fan Unit and Power Box
Rated Power	55W	100W
Suction Power	1300 Pa	1300 Pa
Buttons	High-Feedback Press Buttons	Touch Buttons
Dimensions	182 × 125 × 129 mm	115 × 115 × 115 mm (Body only)

Image: The xTool SafetyPro IF2 2.0 main unit, showcasing its compact design.

Image: The xTool SafetyPro IF2 2.0 connected to its flexible smoke exhaust pipe.

3. SETUP AND INSTALLATION

Follow these steps to properly set up your xTool SafetyPro IF2 2.0.

3.1 Mounting the Fan

1. Choose a suitable location near your laser engraver, ensuring access to an exhaust point (window, vent, or filtration system).
2. Use the provided wall-mounting fixture, screws, and ribbed plastic anchors to securely attach the fan to a wall. Alternatively, the compact design allows for placement on a stable surface.

Dual-Fan System Delivers Strong Exhaustion

Industry's first Super Dual Blade design

14,000 RPM*2

Image: The xTool SafetyPro IF2 2.0 installed using the wall-mounting fixture, with the exhaust pipe connected.

3.2 Connecting the Exhaust Pipe

1. Attach one end of the smoke exhaust pipe to the fan unit using the appropriate pipe connector and pipe clamp.
2. Connect the other end of the smoke exhaust pipe to your laser engraver's exhaust port or direct it to a safe outdoor venting location. Ensure all connections are secure to prevent smoke leakage.
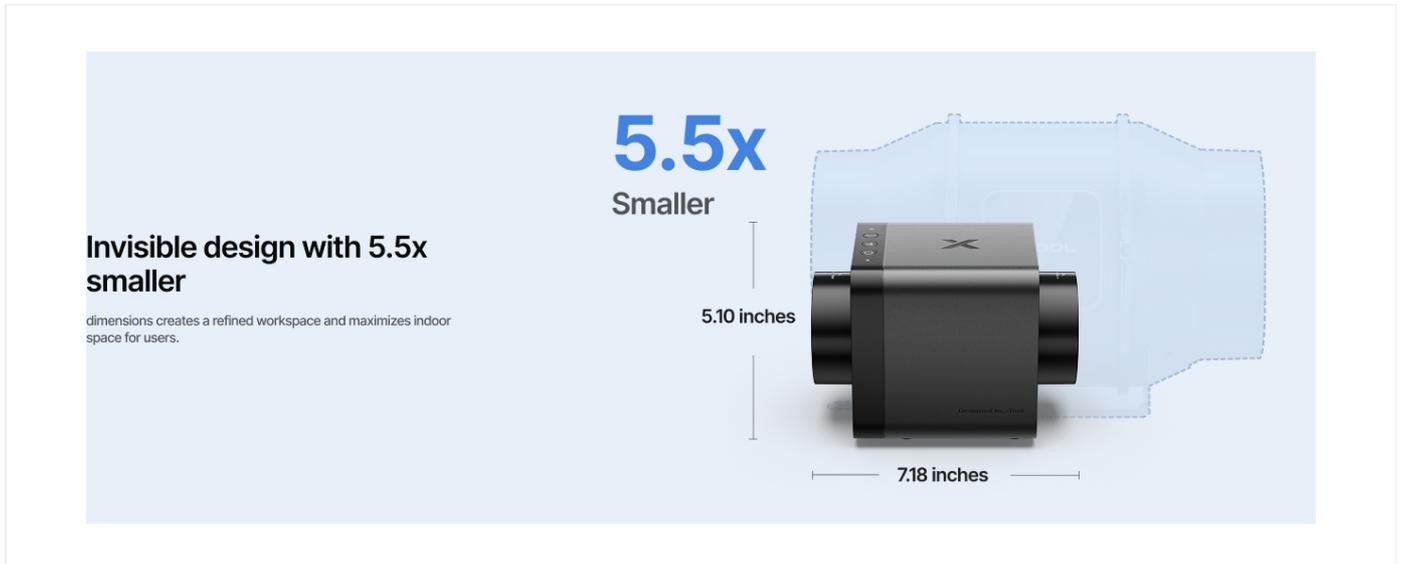

Image: Illustration of the easy detachable pipe connection for simplified maintenance and the washable fan components.

3.3 Power and Connectivity

1. Plug the power adapter into the fan unit and then into a suitable power outlet.
2. Insert the Bluetooth dongle into your xTool laser engraver (if applicable) to enable auto-sync functionality.

4. OPERATION

The xTool SafetyPro IF2 2.0 is designed for seamless integration and efficient operation.

4.1 Auto-Sync Control

- When connected to a compatible xTool laser engraver via Bluetooth, the IF2 2.0 will automatically turn on/off with the laser engraver.
- The fan intelligently adjusts its power and airflow based on the material being processed, optimizing smoke extraction.

4.2 Manual Control and Quiet Mode

- The fan features high-feedback press buttons for manual control of power and fan speed.
- Activate Quiet Mode for operations that produce less smoke or when a lower noise level is desired.

4.3 Smart Connect via xTool Creative Space

- For enhanced control and monitoring, connect the IF2 2.0 through the xTool Creative Space software. This allows for fine-tuning settings and provides a comprehensive user experience.

Image: The xTool SafetyPro IF2 2.0 demonstrating intelligent control, connected to an xTool laser engraver and a laptop running xTool Creative Space software.

5. MAINTENANCE

Regular maintenance ensures optimal performance and longevity of your SafetyPro IF2 2.0.

5.1 Cleaning the Fan Components

- The fan components are designed for easy disassembly and are washable.
- **Before cleaning, always disconnect the power supply.**
- Carefully disassemble the fan unit as per the instructions in the full manual (not provided here).
- Rinse the fan blades and housing components with water. Ensure they are completely dry before reassembly.
- **Important:** The exposed wires and main electrical unit are not waterproof. Do not submerge or expose these parts to water.

5.2 Exhaust Pipe Maintenance

- Periodically inspect the smoke exhaust pipe for any blockages, kinks, or damage.
- Clean the interior of the pipe if excessive residue builds up, which can reduce airflow efficiency.

6. TROUBLESHOOTING

If you encounter issues with your xTool SafetyPro IF2 2.0, refer to the following common solutions:

- **Fan Not Turning On:** Check power connection, ensure the power outlet is functional, and verify the fan is properly connected to the laser engraver if using auto-sync.
- **Weak Suction:** Inspect the exhaust pipe for blockages or kinks. Ensure all pipe connections are sealed. Clean fan components if they are dirty.
- **Excessive Noise:** Check for any foreign objects in the fan blades. Ensure the fan is securely mounted and not vibrating against other surfaces.
- **Auto-Sync Not Working:** Ensure the Bluetooth dongle is correctly inserted and your xTool laser engraver is compatible and properly configured in xTool Creative Space.
- **Smoke Leakage:** Verify all pipe connections are tight and sealed. Check the exhaust pipe for any tears or holes.

For persistent issues, please contact xTool customer support.

7. SPECIFICATIONS

Feature	Detail
Model Number	MXA-K013-001
Brand	xTool
Manufacturer	Makeblock Co., Ltd.
Item Weight	6.29 pounds
Product Dimensions	7.19 x 4.92 x 4.92 inches
Color	Black
Material	Acrylonitrile Butadiene Styrene, PC
Fan Speed	Up to 14,000 RPM (Dual Fans)
Airflow	135 CFM

Feature	Detail
Static Pressure	Up to 1300 Pa
Exhaust Pipe Length	2.3 meters (retractable)
Water Resistance Rating	IP55 (for fan components, not main unit)
Batteries Required	No

8. WARRANTY AND SUPPORT

8.1 Warranty Information

For detailed warranty information, please refer to the official xTool website or the warranty card included with your product. Keep your proof of purchase for warranty claims.

8.2 Customer Support

If you require assistance, have questions, or need technical support, please contact xTool through the following channels:

- **Email Support:** For general inquiries and technical assistance.
- **Live Chat:** Available on the official xTool website for real-time support.
- **Phone Support:** Contact numbers may be available on the xTool website.
- **Facebook Group:** Join the official xTool community for peer support and updates.

Image: Overview of xTool's multi-channel customer service options.