

WALL FAN

INSTALLATION INSTRUCTIONS

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Better Air Standard Installation Instructions for Wall-Mounted Exhaust Fans

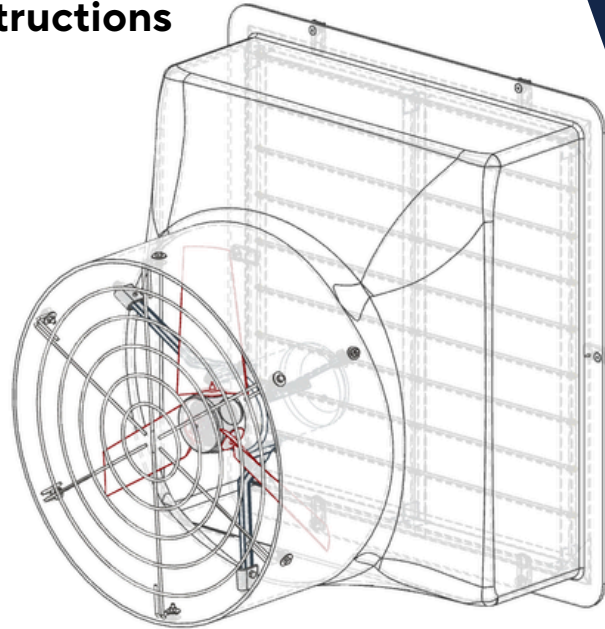
Applies to all wall mount fan models,
Model shown: LPF-2401

Tools and Materials Needed:

- Screws and fasteners
- Drill and drill bits
- Caulking or sealant
- Measuring tape or ruler
- Level
- Safety gloves and glasses

Important:

Before starting, please review all instructions thoroughly.



Warranty

Better Air MFG warrants to the original purchaser that its industrial ventilation products, including fans, heat recovery ventilators, ductwork, controls, and associated components (hereafter referred to as "Products"), will be free from defects in materials and workmanship under normal use and service for a period of one year from the date of purchase.

During the warranty period, if any defect arises in the materials or workmanship of the Products, Better Air MFG will, at its option, either repair or replace the defective part or product without charge, excluding transportation costs.

This warranty does not cover damage, or defects caused by:

- Improper installation, misuse, or neglect.
- Accident, fire, flood, or other acts of nature.
- Unauthorized modifications or repairs.
- Failure to perform routine maintenance as outlined in the product manual.

To obtain warranty service, the original purchaser must promptly notify Better Air MFG in writing of any claimed defect and provide proof of purchase. Upon receiving notice of a defect Better Air MFG may require the return of the defective product or part for inspection.

EXCEPT AS EXPRESSLY SET FORTH HEREIN, BETTER AIR MFG MAKES NO OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING WITHOUT LIMITATION, WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.

In no event shall Better Air MFG be liable for any incidental, consequential, or special damages arising out of or in connection with the use or performance of its Products, even if Better Air MFG has been advised of the possibility of such damages.

This warranty gives you specific legal rights, and you may also have other rights that vary from region to region or country to country. This warranty is void if the product is not used for the purpose intended.



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Step 1: Preparation

Power Off: Before starting, turn off the electrical power to the installation area to ensure safety. Lock out/tag out the circuit if required.

Check Fan and Parts: Verify that you have the correct fan model, all accessories (shutters, winter covers, etc.), and fasteners.

Prepare the Wall: Ensure the installation area is clear of any obstructions, debris, or obstacles that may interfere with the fan's installation or airflow.

Step 2: Verify Rough Square Opening (RSO) Dimensions

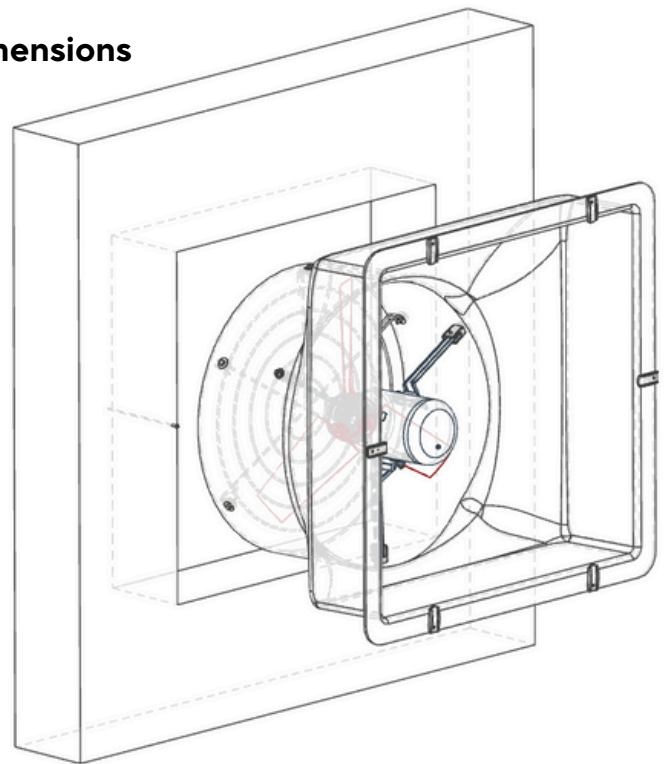
Measure the RSO: Confirm that the rough square opening (RSO) dimensions match the specifications for your fan model. You can find these dimensions in the product catalog, technical documentation, or our website.

Ensure Proper Fit: Make sure the opening is level and large enough to accommodate the fan. An improper RSO size can cause flange distortion, leading to performance issues and potential damage to the fan and accessories.

Step 3: Position the Fan

Place the Fan into the Opening: Carefully align and place the fan into the RSO, ensuring it sits flat and flush against the interior wall.

Verify Clearance: Ensure there are no obstructions or debris on the inside wall that could prevent the fan from fitting properly or affect its operation.



Step 4: Secure the Fan

Fasten the Fan: Using your preferred fasteners (screws, bolts, etc.), secure the fan to the wall. For optimal fastening, place screws along the outer edge of the fan flange to avoid interfering with the shutter or other components.

Seal the Perimeter: Apply a bead of caulking or sealant around the perimeter of the fan flange for weatherproofing and to prevent air leaks, especially if the installation is on an exterior wall.

Step 5: Electrical Connections

Wire the Fan: Ensure all electrical connections comply with applicable local electrical codes and regulations. Reference the wiring diagram located on the motor nameplate for proper configuration. Verify the motor label for accurate voltage, current (ampere) draw, and phase specifications corresponding to your fan model. Use appropriately rated conductors and connectors to maintain electrical safety and performance.

Test the Electrical Circuit: Restore power and check the fan's operation. Ensure the fan is running correctly without any unusual noises or vibrations.

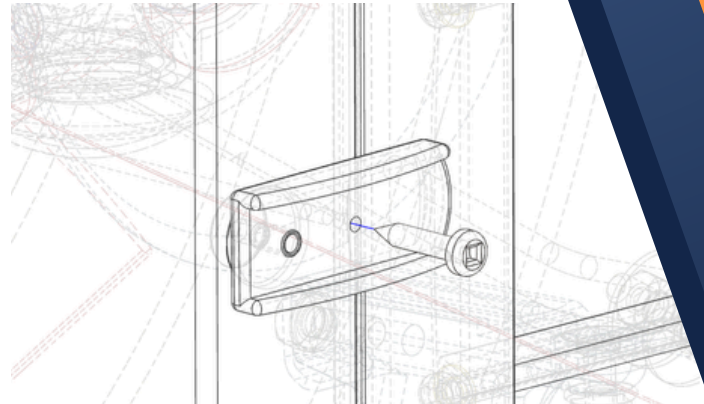
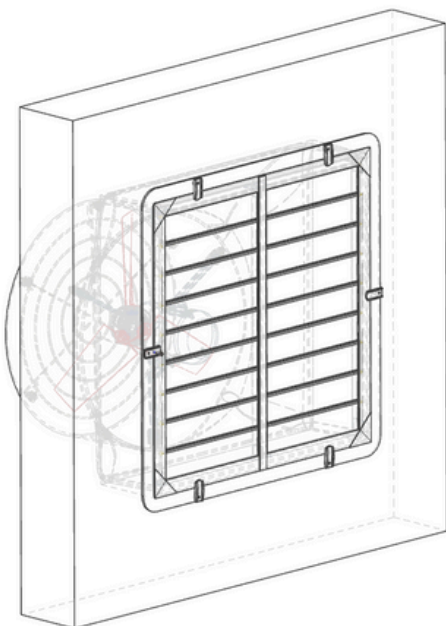


Fig. 4

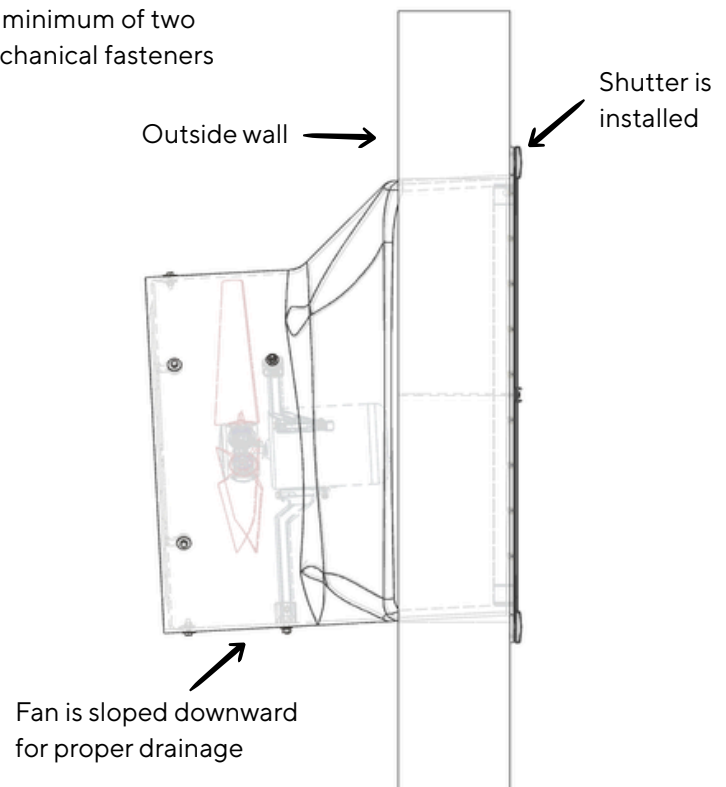
Step 6: Installing the Shutter

Attach the Shutter: Ensure the shutter is properly oriented with the louvers facing inward toward the fan housing. Secure the shutter to the fan flange using the provided clips, making sure it is correctly aligned and securely mounted for proper operation.

Check Shutter Movement: Verify that the shutter opens and closes smoothly without obstruction or sticking. For operational safety, fasten a minimum of two shutter clips on opposing sides of the fan using appropriate mechanical fasteners (screws). Refer to Fig. 4



*Wall fan with shutter installed



Step 7: Final Inspection

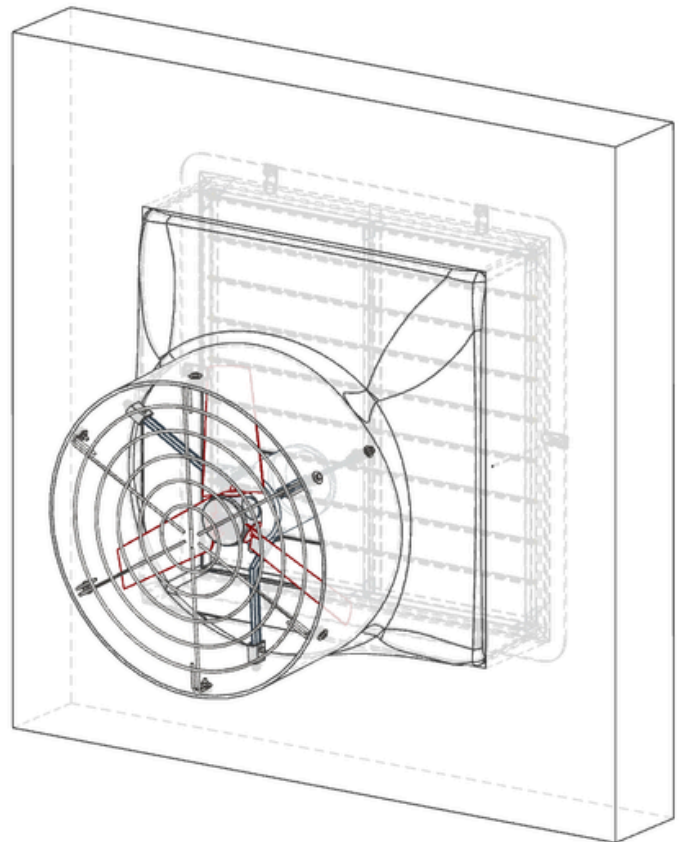
Inspect the Installation: Check all connections, fasteners, and sealant to ensure everything is secure and properly aligned.

Test Fan Functionality: Run the fan to check airflow and ensure the shutter is opening and closing correctly. Listen for any abnormal noises or vibrations, which could indicate an issue with the installation or fan components.

Ensure Safety Compliance: Verify the installation meets local building and electrical codes.

Recommended Annual Maintenance

- Check the condition of all switches, connectors, and wires.
- Check high-stress points like motor mount arms for cracks, deformities, and other potential hazards.
- Check the condition of bearings, shafts, and belts on belt drive models. Better Air only recommends greasing the bearings for belt drive models no more than annually, as over-greasing can lead to damage.
- Verify all wiring connections are secure and show no signs of wear or damage.
- Confirm the voltage, amp draw, and phase match the motor's nameplate specifications.
- Clean the shutters and ensure they open and close smoothly without sticking.
- Check that the shutter clips and fasteners are secure and undamaged.
- Check for unusual noises or vibrations when the fan is running.
- Ensure the blades are balanced and not bent; imbalanced blades can cause vibration.





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