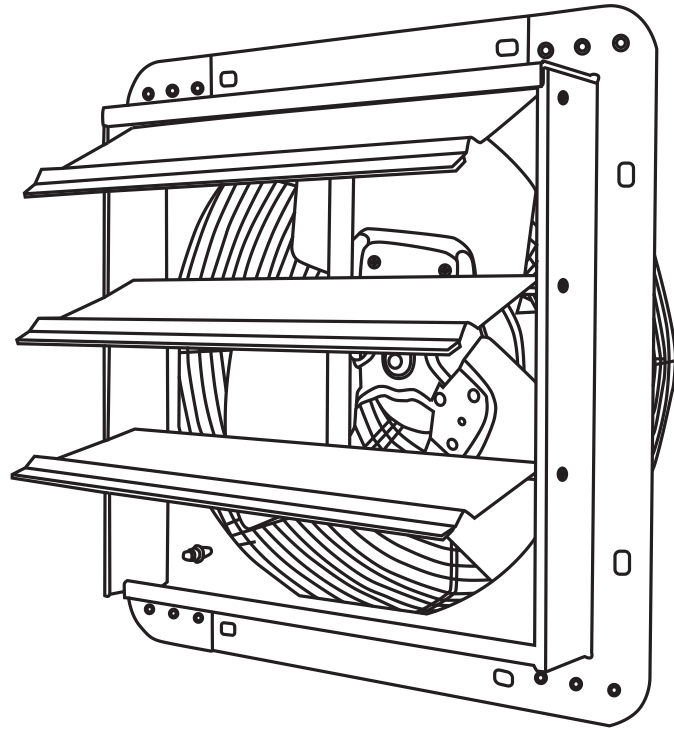


OPERATION INSTRUCTIONS

12 INCH EXHAUST SHUTTER FAN



PLEASE READ AND SAVE THESE INSTRUCTIONS.

Attention: Pictures in the IM are for reference only

READ AND FOLLOW ALL INSTRUCTION BEFORE OPERATING FAN

CAUTION

Read carefully before attempting to assemble, install, operate, or maintain the product described. Protect yourself and others by observing all safety information. Failure to comply with instructions could result in personal injury and/or property damage! Retain instructions for future reference.

WARNING

1. To reduce the risk of fire or electric shock, do not use this fan with any solid state speed control device.
2. The motor amperage and voltage ratings must be checked for compatibility to supply voltage prior to final electrical connection. Please refer to the motor's nameplate label.
3. This product is to be used indoors.
4. Wiring must conform to local, state, and national codes
5. This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety.
6. Children should be supervised to ensure that they do not play with the appliance.

RULES FOR SAFE OPERATION

1. Do not depend on any switch as the sole means of disconnecting power when installing or servicing the fan.
2. Always disconnect, lock-out, and tag-out power source before installing to or servicing. Failure disconnect power source can result in fire, shock, or serious injury.
3. Motor will restart without warning after thermal protector trips. Do not touch operating motor; it may be hot enough to cause injury.
4. Do not place body parts or objects in fan or motor openings while motor power is connected to the source.
5. All electrical connections should be made by a qualified electrician.
6. These utility exhaust fans are for general purpose exhaust applications only. Do not use these exhaust fans in an area where corrosive or explosive materials may be found.
7. Follow all local and state/provincial electrical and safety codes in the United States and Canada, as well as the National Electrical Code (NEC) Act and the Occupational Safety and Health (OSHA) in the United States, and the Canadian Electric Code (CEC) in Canada.
8. Always disconnect power source before working on or near a motor or its connected load.

9. Protect the power cable from coming in contact with sharp objects.
10. Do not kink or create tight bends in the power cable and never allow the in cable to come contact with oil, grease, hot surfaces, or chemicals.
11. Make certain that the power source conforms to the requirements of your specific exhaust fan model. The fan frame and motor must be electrically grounded to a suitable electrical ground, such as a grounded water pipe or ground wire system.
12. To reduce the risk of injury to persons, please observe the following:
In the United States, OSHA compliant guards are required when fan is installed within 7 feet of the floor or working level. In Canada, CSA compliant guards are required when fan is installed below 2.5 meters (8.2 feet) above the floor or grade level.

ASSEMBLY COMPONENTS

Tools / Materials Needed:

- Mounting Fasteners (8)
- Sealant or Caulk
- Regular Screwdriver Set

1. The unit should be securely mounted in a rigid framework.

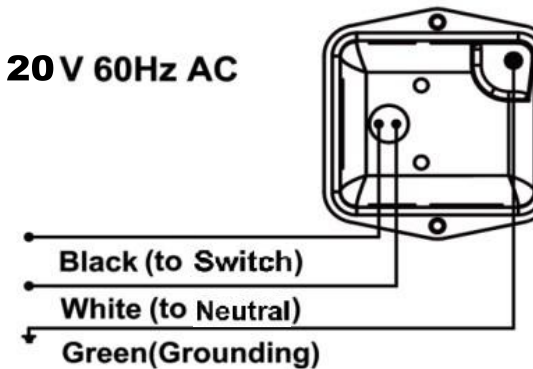
NOTE: Allowing the fan frame to flex or move will result in excess vibrations, which may cause possible premature shutter failure.

2. Connect power to the motor using an approved wiring methods. Refer to the following wiring diagram: Figure 1

⚠ Fan frame and motor must be securely and adequately grounded to a suitable electrical ground, such as a ground water pipe or ground wiring system.

Figure 1 : Wiring Diagram - Single speed, 120-volt connection.

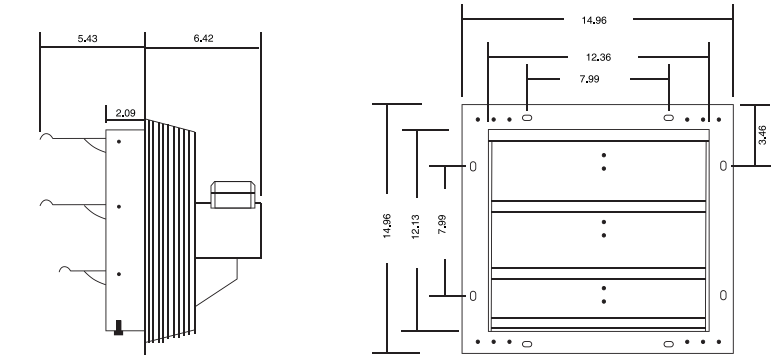
120 V 60Hz AC



GENERAL SPECIFICATIONS

| | |
|------------------------|-----------------|
| Power source | 120V, 60Hz |
| Mounting Position | Vertical |
| Frame Material | Galvanized Iron |
| Shutter Blade Material | Aluminum |
| Propeller Material | Aluminum |

Dimensions (Inches)



OPERATING INSTRUCTIONS

1. Keep the area free of objects that could impede air flow on both the intake and exhaust side of fan.
2. For proper exhaust operation, a window, door, or louver should be opened for fresh air intake on the opposite side of the area to be ventilated.
3. Turn the fan ON; the shutter will open automatically. When the unit is turned OFF, the shutter will close.

MAINTAINANCE

1. Maintain the tool with care. A tool in good condition is efficient, easier to control and will have fewer problems.
2. Inspect the tool components periodically. Repair or replace damaged or worn components. Only use identical replacement parts when servicing.
3. Disconnect power source before servicing.
4. Periodically clean accumulated dirt off the propeller, guard, motor and shutter.