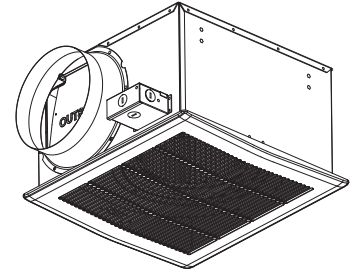




EXHAUST FAN

**MODEL: AED400SC
AED500SC**



WARNING

TO REDUCE THE RISK OF FIRE, ELECTRIC SHOCK, OR INJURY TO PERSONS, OBSERVE THE FOLLOWING:

- a). Use this unit only in the manner intended by the manufacturer. If you have questions, contact the manufacturer.
- b). Before servicing or cleaning unit, switch power off at service panel and lock the service disconnecting means to prevent power from being switching on accidentally. When the service disconnecting means cannot be locked, securely fasten a prominent warning device, such as a tag, to the service panel.
- c). Installation work and electrical wiring must be done by a qualified person(s) in accordance with all applicable codes and standards, including fire-rated construction codes and standards.
- d). Sufficient air is needed for proper combustion and exhausting of gases through the flue (chimney) of fuel burning equipment to prevent backdrafting. Follow the heating equipment manufacturer's guideline and safety standards such as those published by the National Fire Protection Association (NFPA), and the American Society for Heating, Refrigeration and Air Conditioning Engineers (ASHRAE), and the local code authorities.
- e). When cutting or drilling into wall or ceiling, do not damage electrical wiring and other hidden utilities.
- f). Ducted fans must always be vented to the outdoors.
- g). Acceptable for use over a tub or shower when connected to a GFCI (Ground Fault Circuit Interrupter) - protected branch circuit (ceiling installation only).
- h). This unit must be grounded.
- i). Not for Use in Kitchens.
- k). To reduce risk of fire and to properly exhaust air, be sure to duct air outside – Do not vent exhaust air into spaces within walls or ceilings or into attics, crawl spaces, or garages
- l). **WARNING: To Reduce The Risk Of Fire Or Electric Shock, Do Not Use This Fan With Any Solid-State Speed Control Device.**
- m). The fan must not be installed in a ceiling thermally insulated to a value greater than R40.

CAUTION

1. For general ventilating use only. Do not use to exhaust hazardous or explosive materials and vapors.
2. To avoid motor bearing damage and noisy and/or unbalanced impellers, keep drywall spray, construction dust, etc. off power unit.
3. Please read specification label on product for further information and requirements.

*The manual in electronic format can be download in our company web, or obtained from our dealer.

CLEANING & MAINTENANCE

For quiet and efficient operation, long life, and attractive appearance - lower or remove grille and vacuum interior of unit with the dusting brush attachment.

The motor is permanently lubricated and never needs oiling. If the motor bearings are making excessive or unusual noises, replace the motor with the exact service motor. The impeller should also be replaced.

READ AND SAVE THESE INSTRUCTIONS

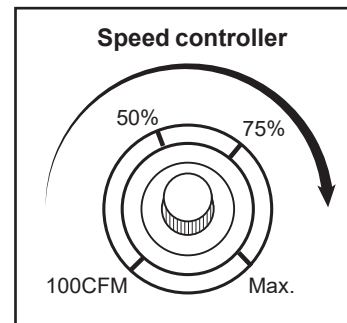
Installer: Leave this manual with the homeowner.

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OPERATION

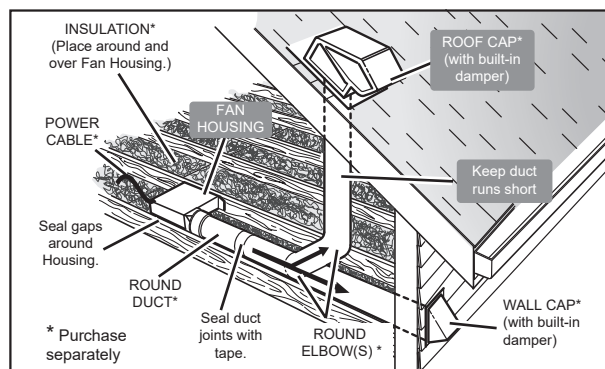
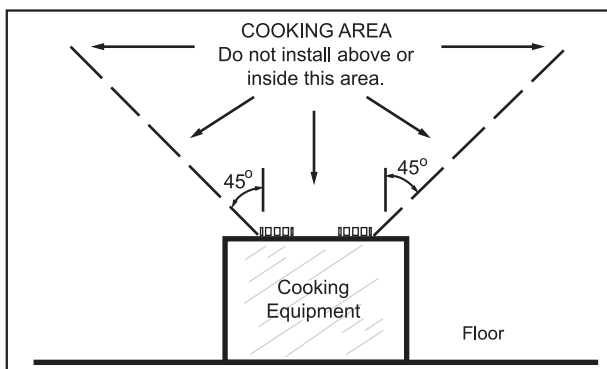
Use an on/off switch to operate this fan. See “CONNECT ELECTRICAL WIRING” for details.

The air delivery can be adjusted by knob, and the adjustment range is 100CFM to max.



PLAN THE INSTALLATION

1. Do not use in a cooking area.
2. Two ways to connect ductwork to a factory-shipped unit.



TYPES OF TYPICAL INSTALLATIONS

Housing mounted with hanger bracket (Start at “ASSEMBLY INSTRUCTIONS 2”)

ASSEMBLY INSTRUCTIONS

1. Before installation, you need to know:

Screw



Rubber 1



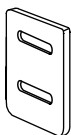
Washer



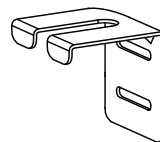
Rubber 2



Rubber 3



Hanger bracket



2. MOUNT WITH HANGER BRACKET

Before installation, need to assembly hanger bracket and rubber 3 to housing with screw. Then install the rubber 1, rubber 2 and washer to hanger bracket. Use anchor bolts (not included) to secure housing. (Fig.1)

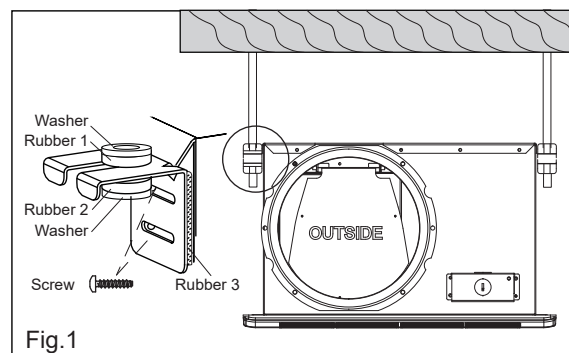


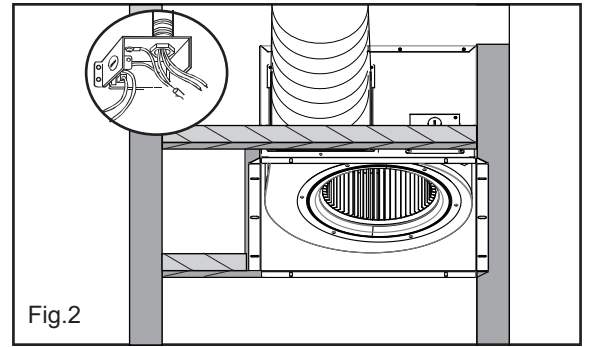
Fig.1

ASSEMBLY INSTRUCTIONS

3. Install ductwork and junction box

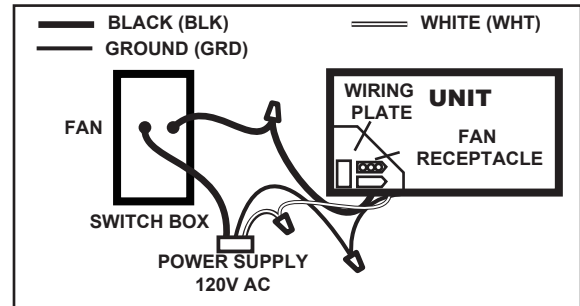
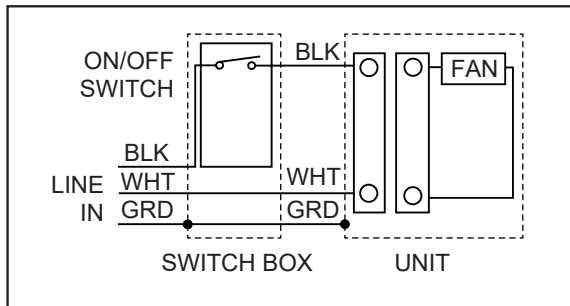
Remove junction box cover and secure conduit or stress relief to junction box knock-out hole. Using connectors, connect house power wires to ventilating fan wires (refer to wiring diagram) replace the junction box cover. Squeeze the ductwork to fit the adaptor then slip onto the adapter and secure it with duct tape (not included), secure all the ductwork connections so that they are air tight.

The ducting from this fan to the outside of building has a strong effect on the air flow, noise and energy use of the fan. Use the shortest, straightest duct routing possible for best performance, and avoid installing the fan with smaller ducts than recommended. Insulation around the ducts can reduce energy loss and inhibit mold growth. Fans installed with existing ducts may not achieve their rated air flow.



CONNECT ELECTRICAL WIRING

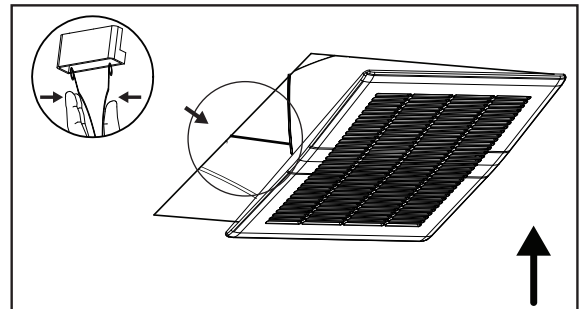
Run 120V AC house wiring to the location of the fan. Use only UL-approved connectors (not included) to attach the house wiring to the wiring plate. Refer to the wiring diagram, and connect the wires as shown.



INSTALL GRILLE

Install ceiling material to complete the ceiling construction. Then, cut around the fan housing.

To attach the grille assembly to the fan housing, pinch the grille springs on the sides of the grille assembly, and position the grille into the housing with the grille springs in the appropriate slots. Push the grille assembly towards the ceiling to secure.



SERVICE PARTS

PART	PART NAME	Qty.
1	Grille Assembly	1
2	Grille Spring	2
3	Plate	1
4	Blower Wheel	1
5	Blower	1
6	Motor	1
7	Housing	1
8	Hanger bracket	4
9	Power Box	1
10	Wire Panel / Harness Assembly	1
11	Wiring plate	1
12	Damper / Duct Connector	1
a	Nut, Hex Lock	1
b	Screw	4
c	Screw	2

WARNING: Before replacing, be sure to turn off power at power source.

