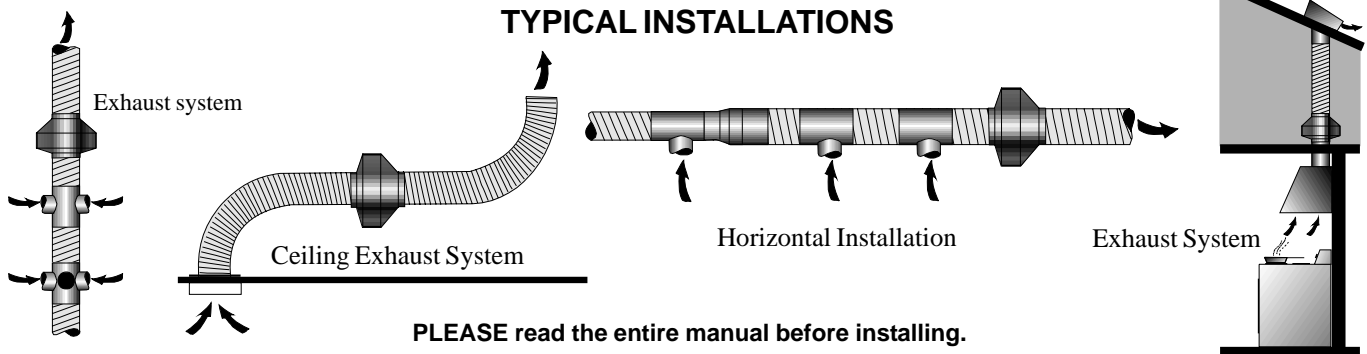




A-FAN INSTALLATION, OPERATION, AND MAINTENANCE INSTRUCTIONS

379R-7-06

READ AND SAVE THESE INSTRUCTIONS



PLEASE read the entire manual before installing.

1. The compactness and adaptability of the A series fans, permit easy installation. These straight-through air flow fans are shipped fully assembled can be mounted at any angle from horizontal to vertical.
2. Because unit has rotating parts, safety precautions should be exercised during phase of installation, operation and maintenance.
3. **CAUTION: For General Ventilation Use Only. Do Not Use To Exhaust Hazardous Or Explosive Material and Vapors.**
4. Remove unit from package and inspect within 15 days after receipt. If damaged, report damage to carrier. DO NOT operate this unit with visible damage to the blower or impeller assembly.
5. Ensure centrifugal impeller has free rotation. If impeller hits orifice, check screws holding motor bracket. Adjustment can be made by loosening motor bracket screws. Tighten all screws before operating unit. **WEAR HAND PROTECTION AND STAY CLEAR OF SHARP EDGES.**
6. **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 any questions, contact your manufacturers representative.

- B. Before servicing or cleaning unit, switch power off at service panel and lock the service disconnecting means to prevent power from being switched on accidentally. When the service disconnecting means cannot be locked, securely fasten a prominent wiring device, such as a tag, to the service panel.

- C. Installation work and electrical wiring must be done by qualified person(s) in accordance with all applicable codes and standards, including fire-rated construction.

- D. Sufficient air is needed for proper combustion and exhausting of gases through the flue (chimney) of fuel burning equipment to prevent back drafting. 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 and ceiling, do not damage electrical wiring and other hidden utilities.

- F. Ducted fans must always be vented to the outdoors.

- G. If this unit is to be installed over a tub or shower, it must be marked as appropriate for the ap-

plication and be connected to a GFCI (Ground Fault Circuit Interrupter) - protected branch circuit.

H. NEVER place a switch where it can be reached from a tub or shower.

7. For Model A fans, if bracket provided is used to mount fan, refer to **illustrations #1A & 1B** depending on fan size. If suspending Model A fan with hanger straps, refer to **illustration #2.**

CAUTION: Fan bracket screws must be installed a minimum of 1.1 inches (28mm) away from the intake collar for the models A-6, A-6HP, A-8, and A-8HP.

8. To attach duct work, use duct tape at inlet and outlet to assure good seal. If using ALDES clamps, attach clamps and insert screws through clamp into inlet and outlet flanges. **(CAUTION: Use No.8 x 1/2" self drilling/tapping sheet metal screws to secure duct work to inlet and outlet. It is critical screws penetrate the metal of the inlet flange but not so far as to obstruct the impeller. It may be necessary to angle screws away from impeller.)**
9. Screen guards must be installed when fan will be within reach of personnel, within seven (7) feet of the working area, or when advisable for safety.

WARNING

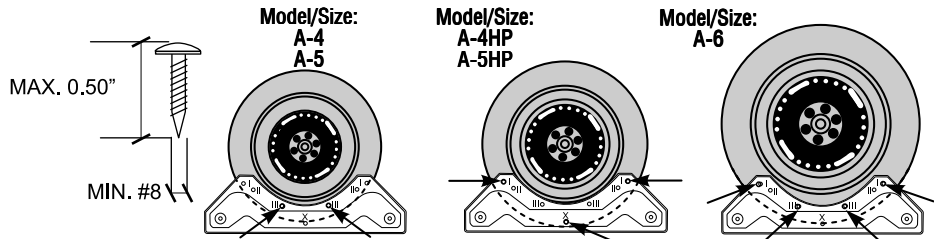
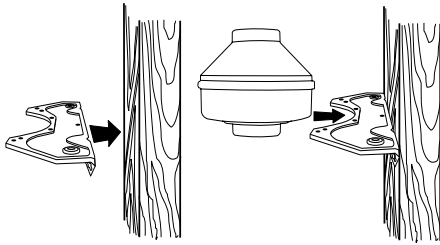
American ALDES Ventilation Corp. products are designed and manufactured to provide reliable performance, but they are not guaranteed to be 100% free of defects. Even reliable products will experience occasional failures, and this possibility should be recognized by the user. If these products are used in a life support ventilation system where failure could result in loss or injury, the user should provide adequate backup ventilation, supplementary natural ventilation or failure alarm system, or acknowledge willingness to accept the risk of such loss or injury.

A-FAN INSTALLATION AND WIRING DIAGRAMS

ILLUSTRATION #1-A

Fan bracket should be installed, then fan mounted directly to bracket using sheet metal screws.

For Fan Sizes: A-4, A-4HP, A-5, A-5HP, A6



CAUTION: Install fan to bracket using screws provided, and ONLY at the locations indicated for each Model/Size. The use of unspecified mounting holes may result in damage to the fan.

ILLUSTRATION #1-B

For Fan Sizes: A-6HP, A-8, A-8HP, A-10, A-10HP, A-12, A-12HP

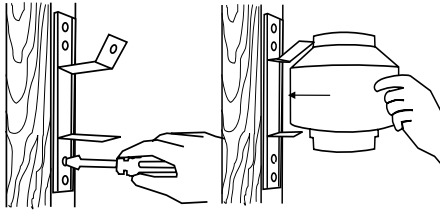
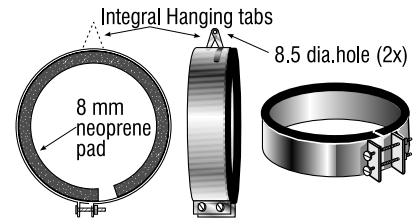
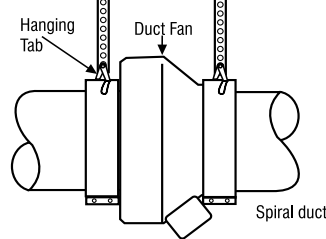


ILLUSTRATION #2

Fans may be suspended without special mounting brackets.

Reduces vibration in rigid ductwork installation. Two clamps required per fan.



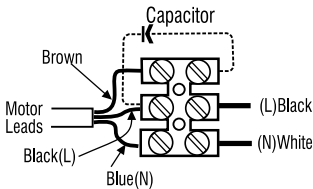
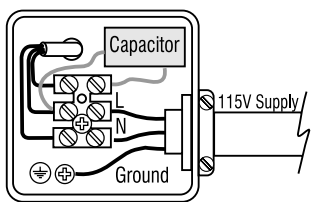
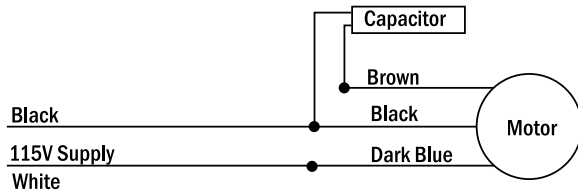
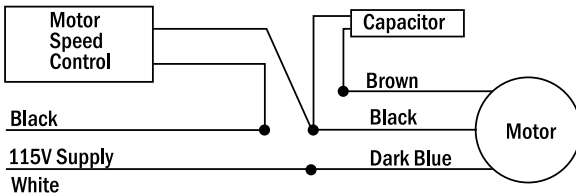
SPECIAL WIRING PRECAUTIONS

All installation should be wired according to the following diagrams. Failure to comply will cause the motor to "hum" or not work.

WIRING INSTRUCTIONS FOR ALL MODEL A-FANS

With motor speed controller

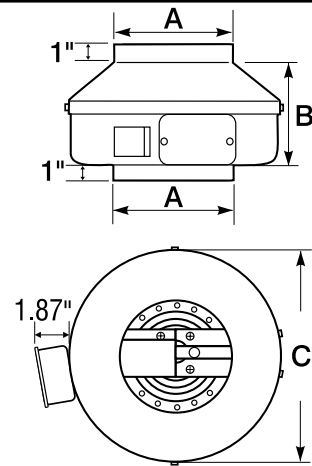
Without motor speed controller



Wiring Terminal Box for all A-Fan Models

"A" FAN DIMENSIONS

Part#	Model	A	B	C
99 029	A-4	4"	6 ¹ / ₂ "	8"
99 040	A-4HP	4"	6 ¹⁵ / ₁₆ "	9 ³ / ₄ "
99 010	A-5	5"	5 ¹ / ₂ "	8"
99 042	A-5HP	5"	5 ¹⁵ / ₁₆ "	9 ³ / ₄ "
99 011	A-6	6"	6"	11 ³ / ₈ "
99 041	A-6HP	6"	6 ⁵ / ₈ "	13 ¹ / ₈ "
99 012	A-8	8"	6"	13 ³ / ₈ "
99 013	A-8HP	8"	6"	13 ³ / ₈ "
99 014	A-10	10"	5"	13 ³ / ₈ "
99 039	A-10HP	10"	5 ⁷ / ₈ "	13 ³ / ₈ "
99 015	A-12	12"	8 ¹ / ₄ "	16"
99 038	A-12HP	12"	8 ¹ / ₄ "	16"



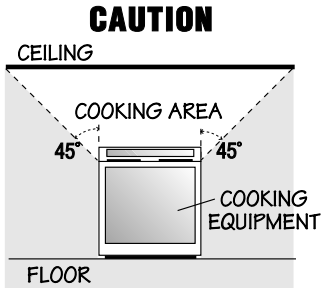
TROUBLESHOOTING

- If fan fails to operate, please check the following:
 - Consult wiring diagrams included to assure proper connections.
 - To assure proper contact, check motor lead wiring, incoming supply wiring and capacitor connections.
 - If possible, use a meter to test for continuity between fan loads. Please note capacitor will show no reading if tested with meter.
- If fan still fails to operate, consult your AMERICAN ALDES representative for return / replacement instructions.

MAINTENANCE

- Since fan bearings are sealed and have been provided with an internal lubricating material, no lubrication is necessary.
- At least once a year, remove any airborne particles in the impeller. No other maintenance is required.

For installations in which the fan is connected to a range hood, or if an exhaust grille connected to the fan is located above or near the cooking surface, as shown below, be sure to observe the following safety warnings:



WARNING

TO REDUCE THE RISK OF FIRE, USE ONLY METAL DUCTWORK.
(Use only galvanized steel ductwork.)

Use only galvanized steel ductwork in accordance with all applicable codes.

(Note: If the fan is not connected to a range hood, or a grille in the vicinity of the cooking surface, other approved ducting may be used in accordance with all applicable codes.)

WARNING

TO REDUCE THE RISK OF A RANGE TOP GREASE FIRE:

- A. Keep fan, filters and grease laden surfaces clean.
- B. Always turn hood ON when cooking at high heat.
- C. Use high range settings on range only when necessary. Heat oil slowly on low to medium setting.
- D. Don't leave range unattended when cooking.
- E. Always use cookware and utensils appropriate for the type and amount of food being prepared.

WARNING

TO REDUCE THE RISK OF INJURY TO PERSONS IN THE EVENT OF A RANGE TOP GREASE FIRE, OBSERVE THE FOLLOWING:

- A. SMOTHER FLAMES with a close-fitting lid, cookie sheet, or metal tray, then turn off the burner. **BE CAREFUL TO PREVENT BURNS.** If the flames do not go out immediately **EVACUATE AND CALL THE FIRE DEPARTMENT.**
- B. **NEVER PICK UP A FLAMING PAN** — You may be burned.
- C. **DO NOT USE WATER**, including wet dishcloths or towels — a violent steam explosion will result.
- D. Use an extinguisher **ONLY** if:
 1. You know you have a Class ABC extinguisher, and you already know how to operate it.
 2. The fire is small and contained in the area where it started.
 3. The fire department is being called.
 4. You can fight the fire with your back to an exit.

THREE (3) YEAR WARRANTY

THIS WARRANTY SUPERSEDES ALL PRIOR WARRANTIES

FOR FACTORY RETURN YOU MUST:

- 1) Have a Return Materials Authorization (RMA) number. This number may be obtained by calling AMERICAN ALDES VENTILATION CORPORATION at 1-800-255-7749. Please have Bill of Sale available.
- 2) The RMA number must be clearly displayed on the outside of the carton, or delivery will be refused.
- 3) All product being returned must be shipped prepaid and be accompanied with a copy of the Bill of Sale.
- 4) Product will be replaced/repared and shipped back to buyer. No credits will be issued.

DURING THE FIRST THIRTY (30) DAYS:

AMERICAN ALDES VENTILATION CORPORATION will replace any product which has a factory defect in workmanship or material. Product may be returned to either the point of purchase or the AMERICAN ALDES factory, together with Bill of Sale, for an immediate replacement.

DURING THE FIRST THREE (3) YEARS (excluding the above 30 day period):

AMERICAN ALDES VENTILATION CORPORATION will replace any product which has a factory defect in workmanship or material. Product

must be returned to the AMERICAN ALDES factory, together with Bill of Sale, and identified with an RMA number.

WARRANTY DOES NOT APPLY TO THE FOLLOWING:

Damages from shipping, either concealed or visible. Claim must be filed with the carrier.

Damages resulting from improper wiring or installation.

Damages caused by acts of nature, or resulting from improper consumer procedures such as:

- Improper Maintenance,
- Misuse, abuse, abnormal use, or accident, or
- Incorrect electrical voltage or current.
- Removal or alterations made on the AMERICAN ALDES label control number or date of manufacture.

Any other warranty, expressed, written or implied, and to any consequential or incidental damages, loss of property, revenues, or profit, or costs of removal, installation or reinstallation, for any breach of warranty.

WARRANTY VALIDATION:

The end user must keep a copy of the Bill of Sale to verify purchase date.

LIMITATION OF WARRANTY AND LIABILITY

This warranty does not apply to any AMERICAN ALDES product or part which has failed as a result of faulty installation or abuse, incorrect electrical connections or alterations made by others, or use under abnormal operating conditions or misapplication of the product or parts. We will not approve for payment any repair not made by us or our authorized agent without prior written consent. The foregoing shall constitute our sole and exclusive warranty and our sole and exclusive liability, and is in lieu of any other warranties, whether written, oral, implied or statutory. There are no warranties which extend beyond the description on the page hereof. In no event, whether as a result of breach of contract, or warranty or alleged negligence, defect, incorrect advice or other causes, shall AMERICAN ALDES be liable for special or consequential damages, including, but not limited to, loss of profits or revenue, loss of use of equipment or any other associated equipment, cost of capital, cost of substitute equipment, facilities or services, downtime costs, or claims of customers of purchases for such damages. AMERICAN ALDES neither assumes or authorizes any person to assume for it any other liability in connection with the sale of its products or parts. Some jurisdictions do not allow the exclusion or limitation of incidental or consequential damages, so the above limitations and exclusions may not apply to you.



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