



FANS  
**RMV Series**  
Roof-Mount Ventilator

INSTALLATION  
OPERATION  
MAINTENANCE

## READ AND SAVE THESE INSTRUCTIONS

**DO NOT CONNECT POWER SUPPLY** until fan is completely installed. Make sure electrical service to the fan is locked in "OFF" position. All units are suitable for use with solid-state speed control.

**WARNING! TO REDUCE THE RISK OF FIRE, ELECTRIC SHOCK, OR INJURY TO PERSONS-OBSERVE THE FOLLOWING:**

1. Use this unit only in the manner intended by the manufacturer. If you have any questions, contact your manufacturer's representative.
2. Before installation, 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 warning device, such as a tag, to the service panel.

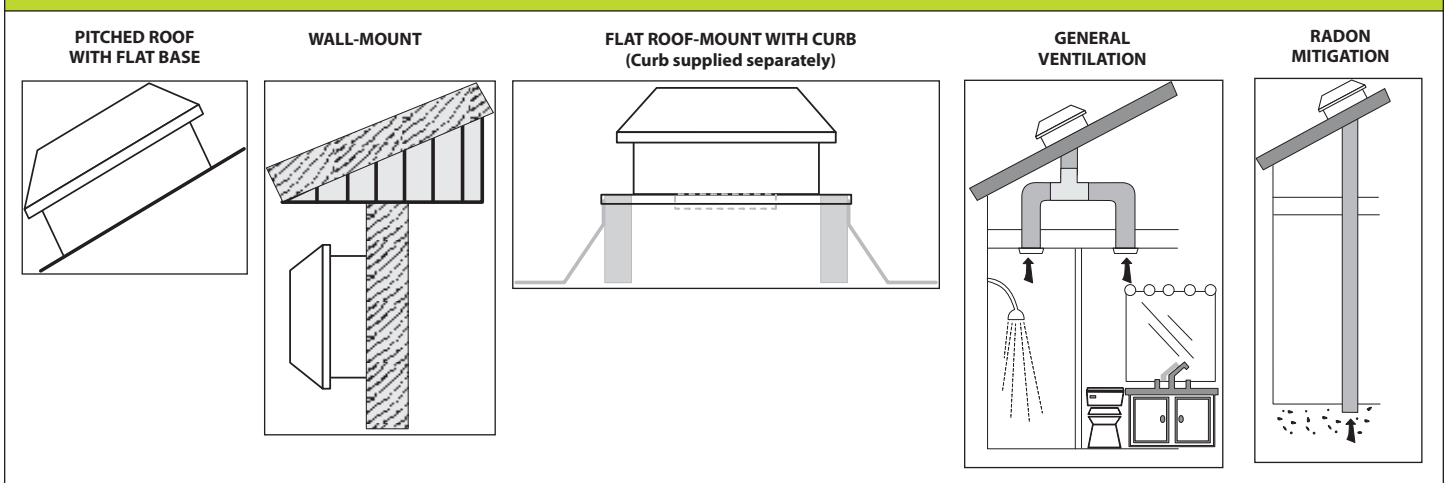
3. Installation work and electrical wiring must be done by qualified person(s) in accordance with all applicable codes and standards, including fire-rated construction.
4. Sufficient air is needed for proper combustion and exhausting of gases through the flue (chimney) of fuel-burning equipment to prevent back drafting. Follow the heating equipment manufacturer's guidelines 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.

5. When cutting or drilling into walls and ceilings, do not damage electrical wiring and other hidden utilities.
6. Ducted fans must always be vented to the outdoors.
7. If this unit is to be installed over a tub or shower, it must be marked as appropriate for the application and be connected to a GFCI-protected (Ground Fault Circuit Interrupter) branch circuit.
8. **NEVER** place a switch where it can be reached from a tub or shower.

**WARNING!** Check voltage at the fan to see if it corresponds to the motor name plate.

### TYPICAL INSTALLATIONS



### INSTALLATION

1. The compactness and adaptability of Model RMV fans permit easy installation. The fans are shipped fully assembled and can be mounted at any angle. For various mounting and ducting options, see "Typical Installations" box.
2. Because this unit has rotating parts, safety precautions should be exercised during all phases 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 of 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, then pulling up on motor bracket while tightening screws. Tighten all screws before operating unit. **WEAR HAND PROTECTION AND STAY CLEAR OF SHARP EDGES.**

6. Screen guards must be installed when fan will be within reach of personnel, within (7) feet of the working area, or when advisable for safety.
7. Install intake side of fan facing an unoccupied space.

### SPECIFIC INSTALLATION INSTRUCTIONS

Suitable sealing, such as tar or similar material (not included), should be used to prevent leakage. To prepare for installation, determine the size and type of ducting, if any, to be used. Make an opening in the roof just large enough to accommodate ducting and electrical supply.

### FLAT BASE MOUNTING

1. Base may be mounted directly on the deck beneath roof shingles, or upper edge of base plate may be slid underneath shingles.
2. Securely screw or bolt base plate to roof through the four corner mounting points.
3. Through the opening, attach ductwork to fan inlet orifice by using CA clamps or duct tape. Optional rubber couplings, also available from

American ALDES, may be used with rigid PVC type ducting.

4. Refer to wiring diagram in this guide to complete electrical connections.
5. Once secured and wired, generously apply tar or other sealant around edges of the base to prevent leakage. Be sure to replace any lifted shingles.

### CURB MOUNTING

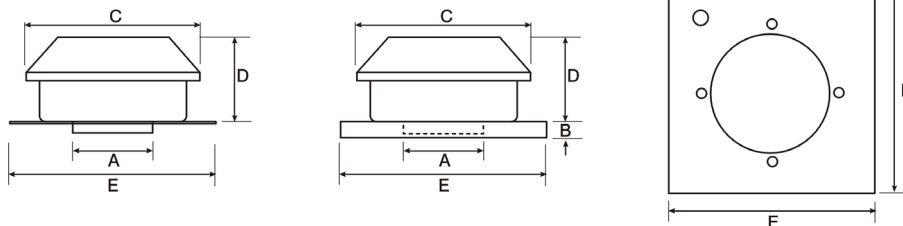
1. Outside dimensions of flanged curb should be approximately 3/8" smaller than the outside dimension of base. Flanged curbs are available from American ALDES.
2. Center curb around roof opening and securely attach to roof. It is advisable to put a bead of sealant around the inside edge of curb.
3. Before mounting base on curb, place a layer of sealant along the top edge

of the curb.

4. Place unit on curb and securely attach with bolts or screws.
5. (Continue installation by following steps 3-5 in instructions for "Flat Base Mounting".)

### SPECIAL WIRING PRECAUTIONS

1. Turn OFF power at service entrance before wiring this fan.
2. Read the fan data plate to determine the current draw. Check that available supply is suitable.
3. Remove top enclosure of fan and the wiring box lid. A 7/8" hole is provided for electrical service entry. Use connectors and conduit provided.
4. Connect electrical supply inside wiring terminal per diagram below.
5. Replace wiring box lid and top enclosure.



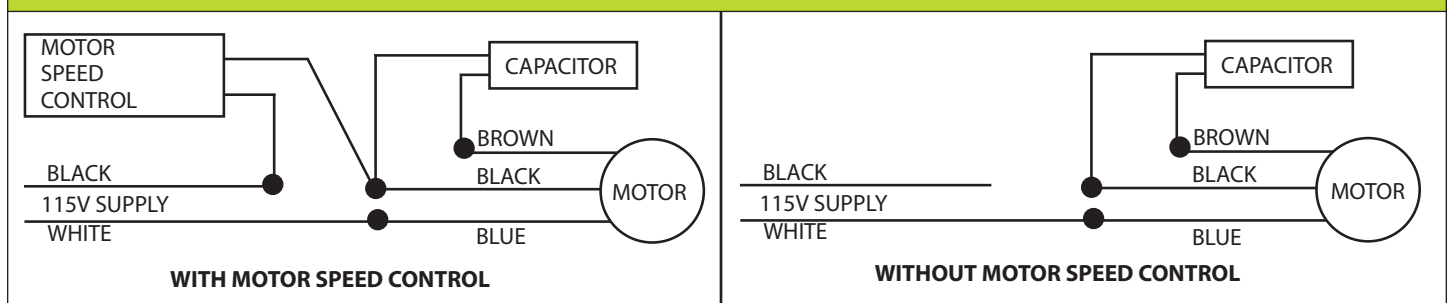
**ALL INSTALLATIONS SHOULD BE WIRED ACCORDING TO THE WIRING DIAGRAMS. FAILURE TO COMPLY WILL CAUSE THE MOTOR TO "HUM" OR NOT WORK.**

### DIMENSIONS

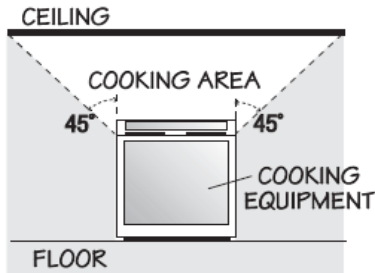
PART NUMBER	MODEL	A	B	C	D	E	F
99 143	RMV-A4/5*	5"	--	10-15/16"	6"	15-1/2"	15-1/2"
99 043	RMV-A4/5C* **	5"	1-1/2"	10-15/16"	6"	15-1/2"	15-1/2"
99 144	RMV-A6	6"	--	13-15/16"	6-1/4"	15-1/2"	15-1/2"
99 044	RMV-A6C**	6"	1-1/2"	13-15/16"	6-1/2"	15-1/2"	15-1/2"
99 145	RMV-A8HP	8"	--	16-9/16"	5-15/16"	20"	20"
99 045	RMV-A8HPC**	8"	1-1/2"	16-9/16"	5-15/16"	20"	20"
99 146	RMV-A10HP	10"	--	20-13/16"	11-1/2"	20"	20"
99 046	RMV-A10HPC**	10"	1-1/2"	20-13/16"	11-1/2"	20"	20"
99 147	RMV-A10HPT	10"	--	20-13/16"	12-11/16"	20"	20"
99 047	RMV-A10HPTC**	10"	1-1/2"	20-13/16"	12-11/16"	20"	20"

\*Includes 5"-to-4" reducer to allow use of 4" duct. \*\*Curbs provided by others.

### WIRING DIAGRAMS



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



**WARNING!**  
TO REDUCE THE RISK OF FIRE, USE ONLY GALVANIZED STEEL DUCTWORK WHERE REQUIRED TO USE METAL DUCT.

(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 as described in "Specific Installation Instructions" section.)

**WARNING**

**TO REDUCE THE RISK OF A RANGE-TOP GREASE FIRE:**

- A. Never leave surface units unattended at high settings. Boil overs cause smoking and greasy spill overs that may ignite. Heat oils slowly on low or medium settings.
- B. Always turn hood ON when cooking at high heat or flaming food (i.e. Crepe Suzette, Cherries Jubilee, Peppercorn Beef Flambe).
- C. Clean ventilating fans frequently. Grease should not be allowed to accumulate on fan or filter.
- D. Use proper pan size. Always use cookware appropriate for the size of the surface element.

Based on "Kitchen Fire Safety Tips" published by NFPA.

**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 could 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

#### DURING THE FIRST THIRTY (30) DAYS:

American ALDES will repair or replace any product that has a factory defect in workmanship or material. Product(s) may be returned to point of purchase or the American ALDES factory, with Bill of Sale, for an immediate replacement.

#### DURING THE FIRST THREE (3) YEARS:

(Excluding the 30-day period above)  
American ALDES will repair or replace any product that has a factory defect in workmanship or material. Product(s) must be returned to the American ALDES factory, with Bill of Sale and identified with a RMA number, within three (3) years of purchase. The warrantee assumes all costs to and from the factory.

#### WARRANTY DOES NOT APPLY TO THE FOLLOWING:

1. Damages from shipping, either concealed or visible. Claim must be filed with the carrier.
2. Damages resulting from improper wiring or installation.
3. Damages or failure caused by Acts of God, or resulting from improper consumer procedures, such as:
  - Improper maintenance
  - Misuse, abuse, abnormal use, or accident
  - Incorrect electrical voltage or current
  - Removal or alterations made on the American ALDES label, control number, or date of manufacture.
4. 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. Valid proof of the date of installation may also serve as a verification of commencement of warranty period.

#### AMERICAN ALDES RETURN POLICY

Claims for damages or order shortages must be reported within ten (10) days of receipt of product(s). For any product(s) received damaged by the forwarding agent, the following instructions MUST BE followed:

1. For product(s) delivered by UPS:
  - Concealed Damages: Keep all cartons; call UPS for an inspection and notify American ALDES immediately.
  - Visible Damages: Save all cartons and file a complaint directly with UPS.
2. For product(s) delivered by Common Carrier: File damaged goods claim directly with the freight company.
3. Shortages: Only sign for the total number of pieces received and contact American ALDES immediately.

#### FOR FACTORY RETURN

AMERICAN ALDES WILL NOT ACCEPT THE RETURN OF ANY SPECIAL, NON-STOCK, OBSOLETE, OR UNSALABLE PRODUCT(S). AMERICAN ALDES MAY, AT ITS DISCRETION, ACCEPT RETURN OF SALABLE PRODUCT(S) SUBJECT TO A 25% RESTOCKING CHARGE.

1. No product(s) will be accepted without a Return Materials Authorization (RMA) number. This number can be obtained by calling American ALDES at 1-800-255-7749. Please have the Bill of Sale or proof of date of installation available.
2. RMA must be clearly marked on outside of carton or delivery will be refused. All product(s) must be returned freight prepaid.
3. Product(s) will be repaired/replaced and shipped back to buyer; no credits will be issued.
4. Any out-of-warranty product will be evaluated and buyer will be notified of cost. Repair cost will be charged to customer. Buyer will be responsible for return freight, or product may be returned to the buyer, freight collect, without action. No credit will be issued.

#### LIMITATIONS 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, use under abnormal operating conditions, or misapplication of the product or parts. American ALDES 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 exclusive liability, and is in lieu of any other warranties, whether written, oral, implied, or statutory. There are no warranties that extend beyond the description herein. 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 nor authorizes any person to assume for it any other liability in connection with the sale of product(s) or part(s). 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.

#### WARNING

American ALDES 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 back-up ventilation, supplementary natural ventilation, a failure alarm system, or willingly acknowledge the risk of such loss or injury.