

FILTERING SUPPLY VENTILATOR ACCESSORY KITS CONTINUOUS SUPPLY

RESIDENTIAL SYSTEM SOLUTIONS

Product Description

ALDES North America Ventergy® Series IAQ-FSVS Filtering Supply Ventilator Kits are the best way to supply constant, precisely regulated amounts of fresh air to central forced air (heating/cooling) systems in homes. Compared to using a motorized damper, the IAQ-FSVS constantly and efficiently provides fresh air to the at a precisely regulated low volume. Motorized dampers only provide high volumes of fresh air when the forced air system is running. The IAQ-FSVS is the superior solution for better indoor air quality, comfort, and energy efficiency.

	6" MR Modulo (CFM)	Variable Speed Controller	6" Wall Hood**	RECOMMENDED FAN Sold separately ENERGY STAR Certified* Ventilator
Description		Vari-Speed		Lialdes
Manual Flow Control		1	1	FSVS140
Automatic Flow Control	60-140 (100-240 m3/h)		1	FSVS140













MR MODULO

ADJUSTABLE CONSTANT AIRFLOW REGULATOR

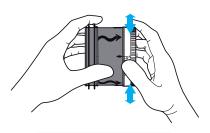
AIRFLOW & ZONE CONTROL

IOM

READ AND SAVE THESE INSTRUCTIONS

Setting the Airflow

Twist the rotating adjustment ring until the desired airflow is reached. Reference the correlation table at right and printed on the device. No tools required.



SMALL DIAMETERS



Correlation Table

11016307 Ø 3" (80 mm)

) **
	m³/h	CFM	m³/h	CFM
K	20	12	-	-
J	25	15	-	-
Н	30	18	-	-
G	35	21	45	26
F	40	24	50	29
В	45	26	60	35
$\overline{}$		_	_	_

P/N: 11016308 Ø 4" (100 mm)

			*	
	m³/h	CFM	m³/h	CFM
L	15	9	-	-
J	20	12	-	-
Н	25	15	-	-
F	30	18	-	-
Ε	35	21	70	41
D	40	24	75	44
C	45	26	80	47
Α	55	32	90	53

CFM

100

105

110

120

125 140 P/N: 11016309 Ø 5" (125 mm) 10-50 CFM (15-85 m³/h)

	(6	D	()*
	m³/h	CFM	m³/h	CFM
L	15	9	-	-
1	25	15	-	-
G	-	-	60	35
F	30	18	65	38
D	-	-	70	41
C	-	-	75	44
В	45	26	80	47
Α	50	29	85	50

P/N: 11016310 Ø 5" (125 mm) 60-110 CFM (100-190 m³/h)

	m³/h	CFM
K	100	59
J	110	65
Ι	120	71
Н	130	76
G	140	82
Ε	150	88
C	160	94
Α	190	112

Certain letters correspond to two setpoints: one with the clip, and one without the clip.

P/N: 11016311 Ø 6" (150 mm)

n³/h

70

80

90

200

210

	m³/h	CFM		n
R	100	60	Н	1
Р	110	65	G	1
0	120	70	F	1
М	130	75	Ε	2
L	140	80	D	2
K	150	90	Α	2
J	160	95		

P/N: 11016313 Ø 8" (200 mm)

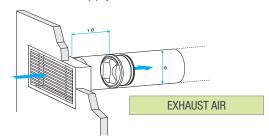
	m³/h	CFM
U	225	132
S	250	147
Q	275	160
Ν	300	177
М	325	191
J	350	206
D	400	235

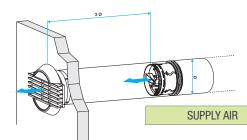
P/N: 110163114 Ø 10" (250 mm)

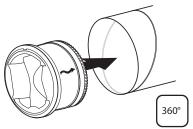
	m³/h	CFM
U	300	175
R	355	205
0	400	235
L	450	265
1	500	295
G	550	325
Α	650	385

Installation

- The MR Modulo will push-fit into circular ducts in close proximity to a take-off or terminal
- Orient the MR Modulo according to the airflow direction indicated on the device.
- Horizontal or vertical mounting is acceptable.
- To avoid acoustic and aeraulic disturbance, provide the following distance between the device and the terminal (grille / diffuser / inlet):
 - Exhaust Air: 1x the device diameter Ø
 - Supply Air: 3x the device diameter Ø

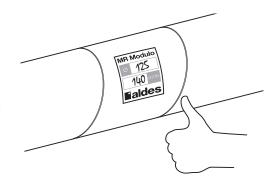






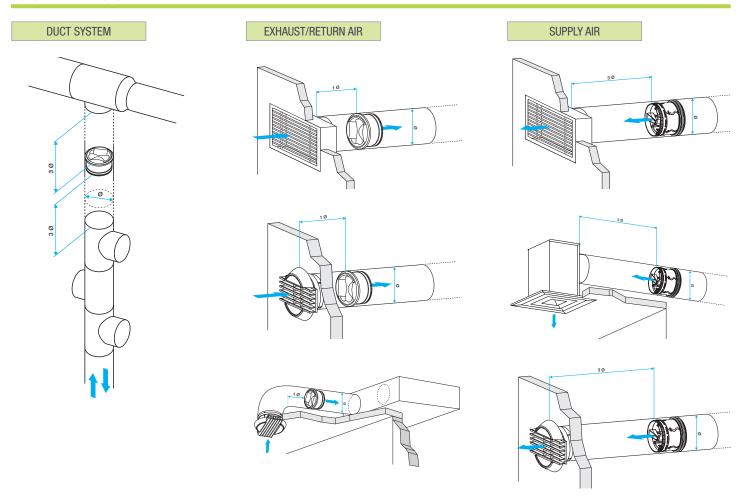
Maintenance

- MR Modulo performance is not altered by clogging, therefore it requires practically no special maintenance.
- If the intended application includes air heavily loaded with grease or dust, a fitting with an access panel or door, such as that used for flame dampers, should be used.
- Clean with soaped water. When cleaning, plug the hole on the plastic body, at the base of the bulb, to prevent any obstruction and any penetration of liquid or foreign body inside the bulb.



Write the diameter and airflow setting on the provided sticker and place it directly onto the duct to show where the MR Modulo has been installed.

Typical Applications

















P/N: 99 250 & 99 251

P/N: 99 022

VARIABLE SPEED CONTROL

5, 10 & 15 AMP CURRENT RATINGS

FAN CONTROLS SPEC & IOM







ISO 9001 2000 QMS

READ AND SAVE THESE INSTRUCTIONS

Product Description

ALDES Variable Speed Controls are offered as accessories to the line of in-line, wall- and roof-mount fans for airmoving applications that use Shaded Pole, Permanent Split Capacitor (PSC), and AC/DC motors. These economical speed controls are designed to replace obsolete tapped winding or reactive methods of speed control. The full-wave phase control circuitry minimizes power loss, thereby reducing energy requirements. The controls provide variable speed adjustment, allowing the end user to select the desired level of air volume. These models cover a wide range of current ratings (5-15 Amps AC).

Important features such as RFI Filter, Minimum Speed Trimpot, and built-in On/Off Line Switch are standard. These speed controls are available in distributor-type packaging with accessories such as knob, dial plate, mounting hardware, instructions, and individual carton. All models are designed to be mounted into a standard 2" x 4" electrical wall box.

FEATURES

- Built-In On/Off AC Line Switch
- Minimum Speed Trimpot
- RFI Filter (Provides RFI and EMI Suppression)
- All Models Mount in a Standard 2" x 4"

Electrical Wall Box

Agency Approvals:
 UL Listing/Recognition
 CSA Certified
 ISO-9001: 2000 QMS Certified

ELECTRICAL RATINGS

Current Ratings: 5-15

Voltage Ratings: 120 VAC - 50/60 Hz

Typical Applications: Fans, Fireplace Blowers,

Humidifiers, Air Conditioners, Ceiling Fans, Attic Fans,

Ventilators, and Range Hoods

ELECTRICAL RATINGS AND AGENCY APPROVALS							
Part	AC Line Input	Maximum	Ambient	Agency Approvals			
Number	Voltage (Volts AC - 50/60 Hz)	Current Rating (Amps RMS ¹)	Temperature °F (°C)	c FU ®us	c UL us	c Us	
99 022	120	5	104 (40)		X	Х	
99 250	120	10	104 (40)		X	X	
99 251	120	15	77 (25)	X			

¹ Models rated 10 A and above include mounting kit.



Page 2 | Variable Speed Control

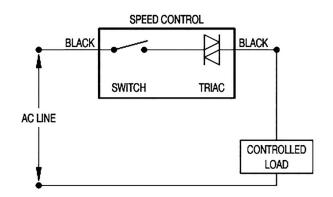




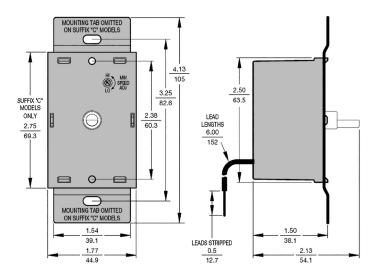




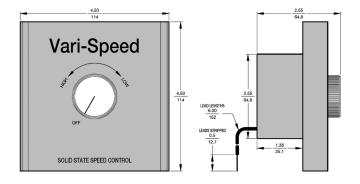
Connection Diagrams



2-Wire Controls with On/Off Switch



Mechanical Specifications (inches/mm) for P/N: 99 022



Mechanical Specifications (inches/mm) for P/N: 99 250 and 99 251

Application Notes

- 1. Radio Frequency Interference (RFI): All solid-state speed controls generate annoying radio noise on the AM band. Speed controls contain, as standard, a high-gain RFI suppression filter which significantly reduces this interference.
- 2. Low-End Set Point (Minimum Speed): All 120 Volt input speed controls are factory set to 60 Volts AC output (±3 Volts), as standard. All controls are factory calibrated using an average responding AC voltmeter. Custom voltage settings are available.
- 3. Motor Suitability: Motors must be loaded to nearly full capacity with the appropriate fan blade in order to achieve proper speed control. Generally, motor suitability is established by determining motor speed as a function of applied voltage. A motor is deemed suitable if it changes speed linearly over a wide range of voltage. It is required that all motors contain a built-in thermal overload protector when used with solid-state speed controls.
- Temperature Test: The non-sinusoidal output voltage of a solid-state speed control may increase motor heating. Therefore, it is necessary that a temperature test be performed to ensure that the motor is operating within manufacturer's specifications.
- 5. Leads: All leads are approximately 6" (15 cm) long and stripped 1/2" (1.25 cm).

SAFFTY WARNING!

Unit should be installed by a qualified electrician in accordance with the National Electrical Code and other local codes which may apply. This control must be grounded when installed. Failure to follow these instructions may result in electrical shock or a fire hazard. To reduce the risk of fire or electric shock, this control is to be used only with fans marked as suitable for use with solid state speed controls. This control is suitable for mounting in a metal or polymeric field enclosure. These controls must not be used at ratings exceeding those clearly marked on the device.

We are not responsible for any expense, inconvenience or subsequent damage caused by items of our manufacture or sale.













HIGH-PERFORMANCE WALL HOODS

WITH SCREENS OR GRAVITY DAMPERS

ROOF CAPS, WALL HOODS, GRILLES & DUCT FITTINGS

Product Description

Aldes High-Performance Wall Hoods are designed for use in exhaust or supply ventilation systems and fresh air kits. They are engineered to accommodate high airflow pressure and velocities found in premium fan and dryer vent systems. Wall hoods are available as screened or dampered versions. Each wall hood is designed to maximize airflow and minimize noise.

Construction

Wall Hoods are available in heavy-gauge G90 galvanized steel.

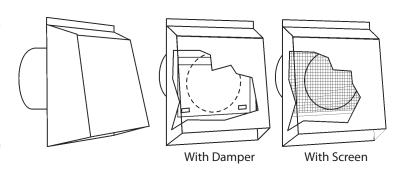
Screened Wall Hoods

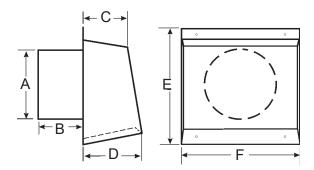
1/4" galvanized steel mesh. Suitable for use in exhaust or supply ventilation systems and fresh-air kits.

Dampered Wall Hoods

For use in exhaust ventilation and dryer venting systems. A magnetic-catch damper ensures a tight closure when the fan is not running and eliminates damper flutter in windy conditions. These hoods should be used when backdraft dampers are not present at other locations within the duct system.

Dimensions





MODEL	Galvar	Dimensions						
MODEL	Dampered*	Screened	Dimensions					
Size	P/N	P/N	Α	В	С	D	Е	F
4"	22 404	22 304	4"	3″	3.0"	4.5"	8″	6"
5"	22 405	22 305	5"	3″	3.0"	5.0"	9″	8″
6"	22 406	22 306	6"	3″	4.0"	6.0"	10"	9″
8"	22 408	22 308	8″	3″	5.0"	8.0"	12"	11"
10"	22 410	22 310	10"	3"	6.5"	10.0"	14"	13"
12"	22 412	22 312	12"	3"	8.5"	12.0"	16"	15"

*For wall hoods with screens and backdraft dampers, add backdraft damper to screen model.

**Galvanized Steel Items (4" to 8" are 26 gauge; 10" and 12" are 24-gauge).

Materials: Galvanized Steel G-90. Damper: Aluminum sheet, 0.020"















FSVS140

FILTERING SUPPLY AIR VENTILATORS

VENTERGY® SERIES FANS

IOM









READ AND SAVE THESE INSTRUCTIONS

Product Description

Ventergy® Series Ventilator Fans represent years of engineering development to combine the energy efficiency and sound performance of a forward-curved fan with the durability and pressure characteristics of a backward-inclined impeller fan.

FSVS Filtering Supply Air Ventilators are highly versatile, continuousduty rated units for residential applications. They meet ENERGY STAR efficiency criteria for low energy consumption. The FSVS is designed to provide precise amounts of fresh outdoor air to the occupied space or forced AHU duct system.

The FSVS is designed to filter and distribute incoming fresh air and prevent the introduction of contaminants as a result of unwanted infiltration through leaks in the building's envelope. By slightly pressurizing the structure, the FSVS also reduces the risk of backdrafting heating appliances, water heaters, and fireplaces. The quiet, continuous-duty, energy-efficient, external-rotor motor with permanently sealed bearings provides many years of maintenance-free performance.

Construction

The FSVS is constructed of heavy-gauge galvanized steel to prevent corrosion caused by moisture. The cabinet is internally lined with acoustic, closed-cell foam insulation that acts as a vapor barrier. This allows installation directly above living spaces or in unheated plenum spaces without concern for noise or condensation.

Controls

The fan can be operated manually or automatically by a programmable timer, dehumidistat, or other appropriate electronic switch device. The fan may also be operated in conjunction with a variable speed control. The fan may be interlocked with a forced air handling unit for optimal air distribution. For continuous operation, the fan should be installed separately from the forced AHU to prevent moisture in the air from condensing inside cold ducts, or cold air coming in contact with the heat exchanger. The fan may be ducted so that fresh air is introduced into a living area via an overhead return.

Fan and Motor

The fan motor is an energy-efficient, permanent-split-capacitor type with external-rotor design. Totally sealed to protect against moisture and contaminants, it incorporates permanently lubricated sealed bearings and automatic-reset thermal-overload protection. It is designed and certified for continuous duty or intermittent operation.

The fan uses a backward-inclined impeller design that minimizes dust collection on blades. Each fan is statically and dynamically balanced at the factory to eliminate vibration and ensure quiet operation.

Locating and Installing

The compact dimensions and versatile mounting options permit installation above drop ceilings, between ceiling joists, or within a small soffit location. They can be installed horizontally or vertically.

Serviceability

The entire motor and fan assembly is mounted on a drop-down hinged-access panel for simple service and inspection. It can be removed from the fan housing without disassembling the duct connections. The filter/supply air manifold section includes a separate drop-down access panel for filter inspection or removal and airflow rate adjustments of each supply duct airflow regulator without disconnecting the unit from the duct. Tools are not required to access the filters.

Accessories

Accessory kits are available to facilitate installation and enhance operation. Accessories kits are sold separately. Please visit aldes-na.com, or contact your local Aldes distributor for details.



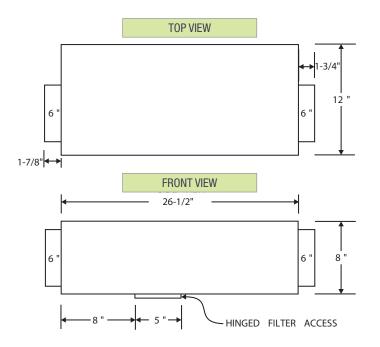








Dimensions & Performance





FSVS140 ELECTRICAL AND AIRFLOW PERFORMANCE*							
	Watts at CFM vs. Static Pressure						
Model	0.2" Ps	0.0"	0.2"	0.4"	0.6"	0.8"	1.0"
FSVS140	36.7	178	140	110	79	51	22

*Certified airflow rating at 0.2" w.g. is derated from actual test results per HVI Certification procedure 920. The HVI Certified Rate for FSVS140 = 140 CFM.

Ducting the Fan

The ducting from this fan to the outside of the 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 airflow.

Use ductwork of a diameter that is the same as or greater than the diameter of the duct connectors on the fan.

Filters

The FSVS is designed to house a disposable-type 1" pleated MERV 8 filter to comply with ASHRAE 62.2 and ENERGY STAR standards. Another compliant filter option is the permanent, washable, electrostatic type.

Performance

Fan airflow and energy performance shall be tested in accordance with HVI procedures.

ELECTRICAL DATA

115 V, 60 Hz, 41 W, 0.34 A, 2200 RPM

Above ratings are intended for sizing electrical wiring only.

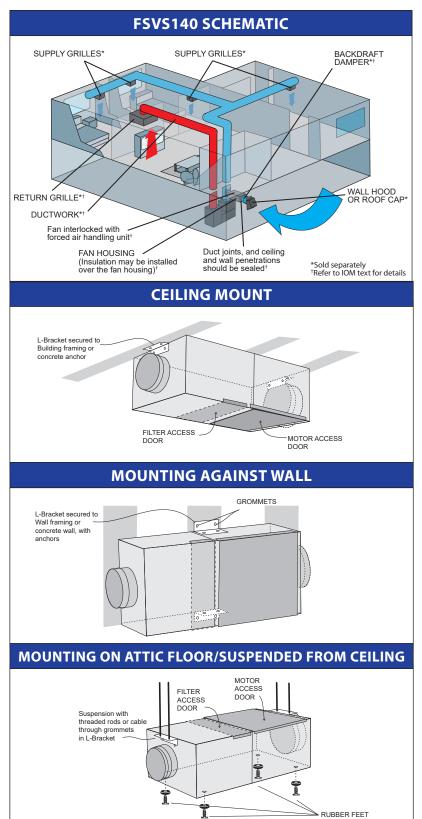
Actual consumption will be lower.





















READ AND SAVE THESE INSTRUCTIONS

For the following base models:

RDF 8-8IP, RDF 8-8MAX, RDF 12-8IP, RDF 12-8

(See supplemental instructions for derived models withduct adapters, manifolds, etc., as appropriate for your particular model.)

RDF INSTALLATION SUPPLEMENT RECTANGULAR DUCT FAN

VENTERGY® SERIES FANS

IOM



Installation

Upon receipt, inspect the carton to ensure the fan has not been damaged in transit. If damaged, it is the responsibility of the recipient to file a damage claim with the carrier. ALDES North America is not responsible for damage incurred during shipment.

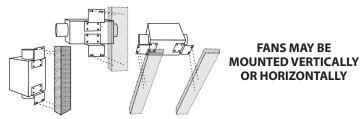
Handle the unit with care to prevent damage to the housing and other components. Store the unit indoors if possible. If outdoor storage is required, protection against moisture and dirt is necessary.

Unpack the unit, taking care to look for any loose components among the packing material. Make certain that the fan housing and the blower are free of any loose packing material or small parts. If not removed before startup, damage and injury may result from solid objects discharged by the blower. Inspect for damaged, loose, or missing parts.

A location should be chosen that will minimize the length of duct runs and the number of elbows that are required. If more than four (4) 90° elbows are required, 45° elbows should be used. If insulated flexible duct is used, the inner sleeve should be fully expanded over the entire duct run. Any turns that are necessary in the flexible duct run should be made as gradually as possible. Choose roof and/or wall caps that are of a more open, less restrictive design. The perimeter of all ceiling and wall penetrations for ductwork and grille(s) should be properly sealed with caulk or a similar material to ensure that there is not an air leakage path between the device and the wall and/or ceiling.

Install the unit in its final location. The fan may be installed in a mechanical room, crawl space, or attic. It is designed to be placed on a flat surface, against a wall or trusses, or suspended from above. If set on a flat surface, vibration-isolation pads are recommended. Mounting brackets with rubber grommets are supplied to permit installation against a vertical surface or from the ceiling. Alternately, the fan may be suspended using threaded rods or chains. At least 12 inches clearance from the access panel is needed to permit servicing the motor. Loose fill or batt insulation can be installed over the unit if the unit's access doors can still be opened.

Mounting



(Differences in bracket type and configuration may exist on some derived models. Refer to supplement where appropriate). Orient the fan so that the access door can be opened for service.

Tools Required:

Power screwdriver with No. 2 Phillips bit.

Mounting brackets are supplied with the fan. The brackets may be mounted to the fan using the self-drilling screws and rubber grommets provided, at the locations indicated by dimple marks on the side and bottom panels of the fan. Pan head number 10 screws are provided to attach the mounting bracket to the building framing members. It may be necessary to add additional framing members to span wall studs. It is not recommended to use drywall anchors to support the fan. If installed against a concrete or masonry wall, concrete anchors are recommended. The rubber grommets provide vibration isolation. The brackets should be attached to the fan first. Then install the wood screws at the keyhole locations and install the fan.

The fan may also be mounted on a foam rubber pad on a flat surface, such as an attic floor.

Cold Climate Precautions

If installed in an unheated space in cold climates, there is a possibility of condensation forming in the fan housing or ducting components. A backdraft damper installed at each grille is an effective way to reduce the potential for condensation when the fan is cycled on and off. Insulated ducting must be used where exposed to cold attic or crawl space temperatures to avoid condensation in the ducting. Condensation can also be avoided by continuous operation of the fan.

aldes Page 2 | RDF Installation Supplement

Caution

FOR GENERAL VENTILATING USE ONLY. DO NOT USE TO EXHAUST HAZARDOUS OR EXPLOSIVE MATERIALS AND VAPORS.

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 the manufacturer.
- Before servicing or cleaning the unit, switch power off at service panel and lock service panel 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.

In addition to the following manufacturer's instructions, it is necessary to comply with federal, state, and local government codes. Your purchase of this ALDES North America system represents an investment in the health and comfort of occupants, as well as an investment in the protection of the building from the damaging effects of excessive indoor humidity.

This model of centrifugal fan is designed for multiple purposes. It may be used as an in-line rectangular duct fan (Model RDF) or a manifolded, multi-port fan for multiple exhaust or supply points. It may be installed in a remote location such as an attic space, mechanical room, above a drop ceiling, in a closet or in a laundry room, to provide quiet exhaust of stale, humid, or otherwise polluted air from bathrooms, kitchens, laundry rooms, or storage rooms via exhaust grilles and ducting to the centrally located fan, which is ducted to the outdoors. With small return grilles in bedrooms and other areas, and one duct connection to the outdoors, such as the BVS models, it may also be used as a supply ventilator or recirculating central ventilator for the introduction of outdoor air, raising the temperature of the fresh air by mixing with recirculated indoor air. When used with adjustable balancing grilles or ALDES Constant Airflow Regulators (CAR) and compatible roof/wall caps, ducting, etc., the fan is the heart of a complete pre-engineered ventilation system.

System Design

Satisfactory performance of a central ventilation system requires the proper integration of all the components:

- Fan selection for airflow, pressure and acoustic properties, vibration characteristics and mounting method, and mode of operation (continuous, manually or automatically controlled)
- Proper duct design for friction losses, with compatible supply or exhaust grilles (airflow and acoustic properties of the supply/ exhaust grilles), and compatible wall/roof caps
- Method of balancing airflows of multi-point ventilation systems
- Consideration for potential condensation in the ducting or fan housing (installation in an unheated space)

Duct Connections

Ducting may be flexible or rigid, depending on local codes. If permitted by code, insulated flexible ducting is recommended. To limit fan noise, at least 8 feet of insulated flexible duct shall be installed between the fan and grille(s). All flexible duct connections shall be secured with clamps or wire ties and sealed with mastic or code-approved duct tape. All rigid ducts are to be sealed on both ends and along the longitudinal seams with mastic or code-approved duct tape.

Ducting should conform to NFPA 90A and meet the requirements of UL as a Class 0 or Class 1 duct to specification UL 181, Standard for Factory-Made Air Ducts and Duct Connectors.

Installation Warning

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

- 1. Installation work and electrical wiring must be done by qualified person(s) in accordance with all applicable codes and standards, including fire-rated construction.
- Sufficient air is needed for proper combustion and exhausting of gases through the flue (chimney) of fuelburning equipment to prevent backdrafting. Follow the heating equipment manufacturer's guidelines and safety standards such as those published by the National Fire Protection Association (NFPA), the American Society for Heating, Refrigeration and Air Conditioning Engineers (ASHRAE), and the local code authorities.
- 3. When cutting or drilling into wall or ceiling, do not damage electrical wiring and other hidden utilities.
- 4. When used as exhaust fans, ducted fans must always be vented to the outdoors.
- 5. 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- (Ground Fault Circuit Interrupter) protected branch circuit.
- 6. NEVER place a switch where it can be reached from a tub or shower.

MAINTENANCE

MONTHLY: Inspect and clean the exhaust grilles and filters, if so equipped.

ANNUALLY: To ensure the maximum efficiency of the fan unit, it is recommended to clean the inside of the fan box as well as the blower wheel.

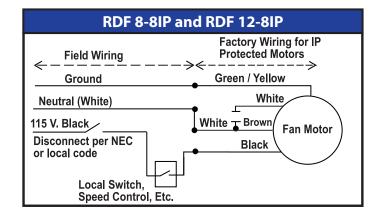
Electrical Data

Provide disconnect switch in vicinity of fan to permit servicing fan in accordance with NEC and local codes.

Depending on the desired mode of operation, switches may be simple on-off switches, motor speed controls, timer switches, time delay, time-of-day cycle timers, dehumidistats, occupancy sensing controls, controllers, etc., provided they are rated for the motor duty and meet the nameplate electrical ratings of the motor. (Additional application wiring diagrams illustrating a variety of controls for use with RDF fans are available by calling the factory at 1-800-255-7749.)

RDF 8-8MAX and RDF 12-8				
Field Wiring	Factory Wiring			
Ground	Green			
Neutral (White)	White White			
Disconnect per NEC or local code Local Switch, Speed Control, Etc.	Black Black Fan Motor Brown Black Capacitor			

Max Max **Base Model** Volts **RPM Amps** Watts **RDF 8-8IP** 115 0.19 20 2324 RDF 8-8MAX 115 0.29 34 3135 **RDF 12-8IP** 115 0.34 41 2200 RDF 12-8 115 0.53 59 2960



Disclaimer

IT IS THE RESPONSIBILITY OF THE CONTRACTOR/INSTALLER TO DETERMINE THE SUITABILITY OF THIS EQUIPMENT WITH RESPECT TO THE POTENTIAL FOR BACKDRAFTING NATURALLY VENTED FLUE DEVICES AND/OR AFFECTING RADON ENTRY.

Impact of Exhaust Fans

In especially tight homes heated with naturally vented appliances, such as gas, oil or wood-fired furnaces, boilers, stoves or fireplaces, the exhaust system may produce sufficient negative pressure indoors to induce the backdrafting of flue gases. This is a common, though intermittent, occurrence, with conventional exhaust systems, such as vented kitchen range hoods, clothes dryers, bath fans, etc. In the case of continuous exhaust, though often at lower flow rates, the potential for backdrafting the flue of these appliances does exist and represents a dangerous situation.

The International Fuel Gas Code, Appendix D provides a Recommended Procedure for Safety Inspection of an Existing Appliance Installation. This procedure should be followed to determine the presence of adequate combustion air while all exhaust fans are operating at maximum speed and all doors and windows are closed.

In the event that backdrafting occurs, steps must be taken to provide sufficient combustion air to the furnace or boiler, following the guidelines of the National Fuel Gas Code and all state and local codes.

Caution

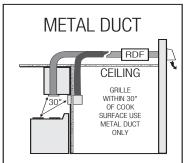
AUTOMATICALLY OPERATED DEVICE. TO REDUCE RISK OF INJURY, DISCONNECT FROM THE POWER SUPPLY BEFORE SERVICING.

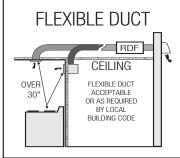
Disassembly

Turn off all power to the unit. The blower may be inspected and cleaned by removing the two screws from the hinged access panel. The blower assembly can now be swung open for cleaning the wheel.

Page 4 | RDF Installation Supplement

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 WHEN REQUIRED TO USE METAL DUCT.

NOTE: If only rigid ducting is allowed, a metal sound attenuator shall be installed between the fan and the range hood.

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 the "Duct Connections" section of basic instructions.

Range Hood/Cooking Surface Warning

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

- 1. Never leave surface units unattended at high settings. Boilovers cause smoking and greasy spillovers that may ignite. Heat oils slowly on low or medium settings.
- 2. Always turn range hood ON when cooking at high heat or flambeing food.
- 3. Clean ventilating fans frequently. Grease should not be allowed to accumulate on fan or filter. Use proper pan size. Always use cookware appropriate for the size of the surface element.
- 4. 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.
- 5. NEVER PICK UP A FLAMING PAN You may be burned.
- DO NOT USE WATER, including wet dishcloths or towels, because a violent steam explosion could result.
- 7. 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.

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

Mechanical Supply Fans

Mechanical supply of outdoor air tends to reduce the potential and frequency of backdrafting by reducing the contributing negative pressures; however, due to a multitude of factors, including the wide range of exhausting appliances that may be present, the effects of wind and building shape, the presence of multiple chimneys, building leakage, and the use of operable windows, no one can assure elimination of backdraft conditions so long as atmospherically vented combustion equipment is present in the home.

REPLACEMENT PARTS LIST (BASE MODELS)				
Model	Motor P/N	Impeller Dimensions (mm)	Capacitor	
			P/N	Cap
RDF 8-8IP*	86 561	133 x 42	86 172	4uF
RDF 8-8 MAX	86 561	133 x 45	86 172	4uF
RDF 12-8IP*	86 562	180 x 35	86 179	10uF
RDF 12-8	86 562	180 x 35	86 170	5uF

 $^{{\}tt *Designates Impedance Protection with alternate wiring of capacitor across auxiliary winding of motor.}\\$

ALDES North America accepts no liability for backdraft conditions resulting from negative pressures. Nor does ALDES North America make representation that blending supply ventilators (BVS) are adequate to prevent such occurrences.



3 Year Warranty: This Warranty Supersedes All Prior Warranties

DURING THE FIRST 30 DAYS:

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 ALDES factory, with Bill of Sale, for an immediate replacement.

DURING THE FIRST 3 YEARS:

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

WARRANTY DOES NOT APPLY TO THE FOLLOWING:

- Damages from shipping, either concealed or visible. Claim must be filed with the carrier.
- 2. Damages resulting from improper wiring or installation.
- 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 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. Valid proof of the date of installation may also serve as a verification of commencement of warranty period.

ALDES RETURN POLICY

Claims for damages or order shortages must be reported within 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 ALDES immediately.
 -Visible Damages: Save all cartons and file a complaint directly with
- 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 ALDES immediately.

FOR FACTORY RETURN

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

- No product(s) will be accepted without a Return Materials Authorization (RMA) number. RMA number can be obtained by calling ALDES at 1-800-255-7749. 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 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. 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 statuary. 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 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. 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

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.

For more information, contact your Aldes sales advisor, visit aldes-na.com, call 1.800.255.7749, or find us on









