








# RESIDENTIAL SYSTEM SOLUTIONS

## MBFK

### Multi-Port Bath Fan Kits

PRODUCT  
SPECIFICATIONS  
& TECHNICAL  
DATA

American Aldes MBFK Multi-Port Bath Fan Kits are a flexible way to install a compact exhaust grille directly over the shower or in tight bathroom spaces. The powerful central system effectively removes moisture, steam, and odors right from the source. The MBFK is designed for homes with 2-4 bathrooms. It includes an efficient, multi-port ENERGY STAR rated fan, adjustable grilles, and universal mounting sleeves with backdraft dampers.

MBFK – Multi-Port Bath Fan Kits							
Part Number	Kit	Number of Bathrooms	Ventilator	6" Algrille	6" Universal Sleeve w/ Backdraft Damper	4" Algrille	4" Universal Sleeve w/ Backdraft Damper
							
25 417	MBFK-AG-2	2	MPVS150/614 Max CFM: 211 Max Watts: 41	1	1	1	1
25 420	MBFK-AG-3	3	MPVS200/624 Max CFM: 276 Max Watts: 63	1	1	2	2
25 423	MBFK-AG-4	4	MPVS200/624 Max CFM: 276 Max Watts: 63	1	1	3	3



MPVS150



6" Algrille



6" Universal Sleeve  
with Backdraft  
Damper



4" Algrille



4" Universal Sleeve  
with Backdraft  
Damper

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# VENTERGY® SERIES FANS

## MPVS150 & MPVS200

### Multi-Port Exhaust Ventilators

PRODUCT  
SPECIFICATIONS  
& TECHNICAL  
DATA



#### VENTERGY® SERIES FANS

Ventergy® Series Multi-Port Ventilators (MPVS) are highly versatile, continuous-duty rated fan units for residential and light commercial applications. They meet ENERGY STAR efficiency criteria for low energy consumption. The most popular use for the fan is central exhaust ventilation of bathrooms, kitchens, laundry rooms, and other rooms where humidity is a controlling factor since the fan has a single exhaust discharge duct directly to the outdoors.

The principal advantage of the MPVS is the elimination of standard noisy bath fans, with the benefits of quiet operation and reduced penetrations to the exterior of the building. With the increasingly tight construction of energy-efficient buildings, there is a growing need for mechanical ventilation for indoor air quality. These fans are designed to serve this purpose by providing effective bathroom ventilation with the ability to run intermittently or continuously. The quiet, energy-efficient, permanent-split-capacitor type of external-rotor motor has permanently sealed bearings that provide many years of maintenance-free performance.

#### CONSTRUCTION

The MPVS 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 for installation directly above living spaces or in unheated plenum spaces without concern for noise or condensation.

#### FAN AND MOTOR

The fan motor is an energy-efficient, permanent-split-capacitor type of external-rotor design. Totally sealed to protect against moisture and contaminants, it is approved for use to remove steam and moisture in kitchen and bath areas. The motor incorporates permanently lubricated and 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 prevents dust from collecting on the blades. Each fan is statically and dynamically balanced in the factory to eliminate vibration and ensure quiet operation. The entire motor and fan assembly is mounted on a drop-down hinged access panel for simple service and inspection, and it can be removed from the fan without disassembling the duct connections.

#### CONTROLS

The fans can be operated manually or automatically by a programmable timer or dehumidistat. They may also be operated in conjunction with a variable speed control.

#### LOCATING AND INSTALLING THE FAN

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

#### ACCESSORIES

Accessories are available to accommodate two-to-five bathrooms. Accessories are included with the MPVS150 only when ordered as a VentZone® VZ Zoned Intermittent Bath Exhaust Kit or a VentZone® IAQ Continuous Exhaust Ventilation Kit. Accessories are included with the MPVS150 or MPVS200 only when ordered as a Multi-Port Bath Fan Kit (MBFK).

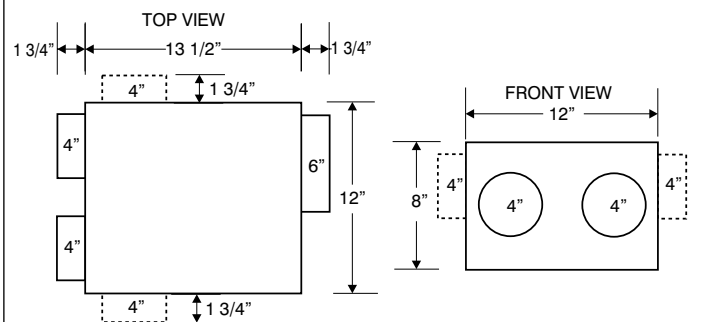
#### AIRFLOW BALANCING

The flow rates can be set with manually adjustable grilles, such as Aldes Algrilles, or with pre-set ALDES Constant Airflow Regulators (sold separately) and fixed grilles with large free area.

#### PERFORMANCE

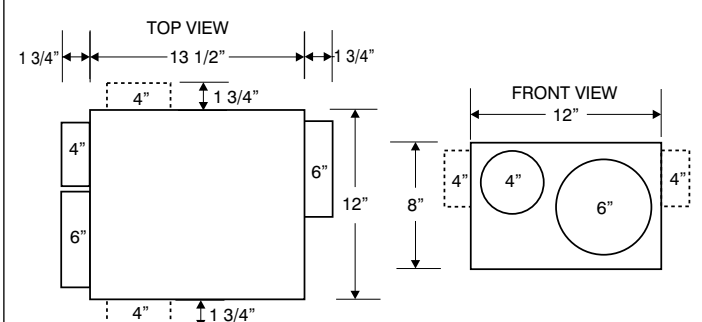
Fan airflow and energy performance shall be tested in accordance with HVI standards.

#### DUCT CONFIGURATIONS 414, 424, 434



NOTE: Location(s) of field-installed 4" side-tap collar(s) shown as dashed lines.

#### DUCT CONFIGURATIONS 614, 624, 634



NOTE: Location(s) of field-installed 4" side-tap collar(s) shown as dashed lines.

# Performance

## ELECTRICAL AND AIRFLOW PERFORMANCE\*

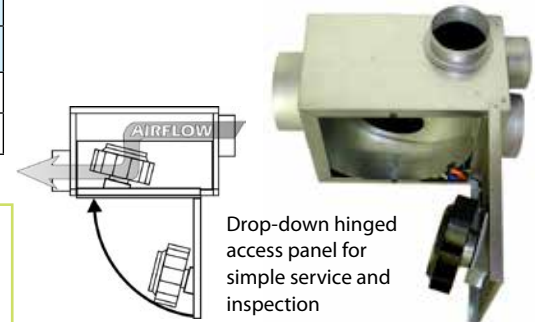
Model	Nominal RPM	HP	Volts	Watts at 0.2" Ps	MAX Amps	CFM vs. Static Pressure					
						0"	0.2"	0.4"	0.6"	0.8"	1.0"
MPVS150	2200	0.06	120	41	0.34	211	171	134	102	72	45
MPVS200	2960	0.08	120	63	0.53	276	251	224	197	171	145

\*Certified airflow rating at 0.2" w.g. is derated from actual test results per HVI Certification procedure 920.

## ELECTRICAL DATA – MPVS150 & MPVS200

120 V, 60 Hz, 0.34/0.53 Amp., 41/63 W Max., 2200/2960 RPM

Above ratings are intended for sizing electrical wiring only. Actual consumption will be lower.



## AIRFLOWS AND DUCT LENGTHS

AIRFLOW CFM	INTAKE DUCT TO FAN Recommended Max. Duct Length from Grille to Fan (ft.)			
	4" SMOOTH	4" FLEXIBLE	6" SMOOTH	6" FLEXIBLE
50	50	30	400	250
60	40	20	280	175
80	--	--	170	95
100	--	--	110	70

TOTAL EXHAUST RATE CFM	FAN DISCHARGE DUCT Assumes low-pressure drop-vent cap		FOR EACH ELBOW DEDUCT
	6" SMOOTH	4" FLEXIBLE	
175	20 ft.	10 ft.	4" Diameter = 4 ft. 6" Diameter = 7 ft.
200	15 ft.	8 ft.	
225	13 ft.	7 ft.	

\*This table should only be used as a general guide. Actual duct length allowances may be longer on some models. Contact the factory for assistance.

**NOTE:** 3" Ducting may be substituted to permit installation in partition walls. Smaller diameter ducting has increased resistance to airflow. For each foot of 3" ducting substituted for 4" diameter duct, reduce the allowable duct length by 3 feet. If duct runs longer than permitted in the table above are required, use smooth ducting and/or increase the diameter.

# Typical Specification

## MULTI-PORT EXHAUST FAN

American ALDES Ventilation Corporation, Florida (1-800-255-7749). ALDES model MPVS150 or MPVS200.

## GENERAL

The fan shall be continuous-duty type with a backward-inclined centrifugal blower housed in a multi-port enclosure specifically designed for residential and commercial use. The fan shall be safety tested per UL standards and bear the agency listing certified mark, and be approved for use over cooking areas and tub/shower enclosures when used with GFCI branch circuiting. The fan must meet ENERGY STAR performance criteria for energy efficiency and bear the ENERGY STAR mark.

## CONSTRUCTION

The housing shall be of a minimum 22-gauge steel with a G90 galvanized coating or baked enamel paint finish. All interior surfaces of the housing shall be lined with non-porous, closed-cell foam insulation to allow installation above ceilings and in unheated spaces without concern for condensation or absorption of water. The unit shall not exceed 8-1/2" in total height and 14-1/2" in width to allow mounting within ceiling/floor joist spaces. The blower shall be external-rotor motor centrifugal type with backward-inclined impeller blades. The motor

and blower assembly shall be mounted on a drop-down hinged access panel so as to permit removal from the housing without disassembly of the ducting connections. The intake duct connections shall be dimensioned so as to accept constant airflow regulators with a secure fit. The intake duct dimensions shall be nominal 4" or 6" depending on model. The discharge duct dimension shall be nominal 6" round. The fan housing and intake duct collar(s) shall be designed to allow removal and repositioning in the field to accommodate different installation requirements. Mounting brackets shall be provided for attachment to the fan housing, allowing vertical or horizontal installations.

## MOTOR

The motor shall be direct-drive, external-rotor, high-efficiency, PSC type with permanently lubricated and sealed ball bearings. The motor shall have automatic thermal-overload protection and must be totally sealed to protect against contaminants and moisture. Naturally vented air-over motors are not acceptable.

## ELECTRICAL

The fan shall operate on 115V, 50/60 Hz, and single-phase current. The motor shall be listed for use with a solid-state speed control.

## WARRANTY

*The entire unit is guaranteed for three (3) years, from date of shipment, against all manufacturing defects, provided the material has been installed and operated per manufacturer's instructions and under normal conditions. Warranty is limited to the repair or replacement of the material upon its return freight paid to our factory. This warranty is not transferable and is limited to the original end user.*

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## ROOF CAPS, WALL HOODS, GRILLES & DUCT FITTINGS

# Algrilles

## Supply/Exhaust Grilles

## PRODUCT SPECIFICATIONS & TECHNICAL DATA



### ALGRILLES

- Supply/Exhaust
- Available in 3", 4", 5", 6", & 8"
- Fully adjustable for variable airflow capacity
- Rotating center-adjustment cone
- Easy to install
- Durable white plastic (polypropylene co-polymer with HB UL rating)

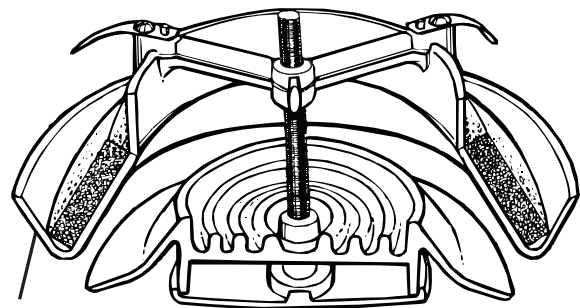
### HOW TO USE THE ALGRILLE

The center adjustment cone allows for variable ventilation capacity.

After installing your Algrille vents and connecting them to the ductwork from your ventilator, begin balancing the ventilation ports by increasing openings on the most distant Algrille until the flow is satisfactory throughout the building. Usually two rounds of balancing will provide the desired air distribution.

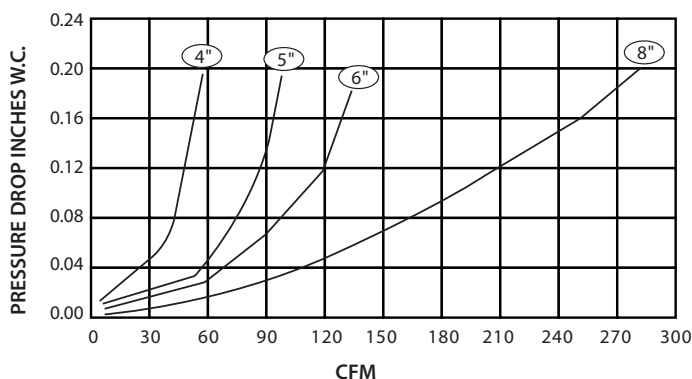
### INSTALLATION

Compression-spring tab clips the Algrille into 4", 5", 6", or 8" round duct.



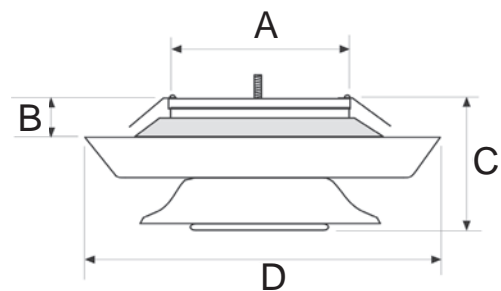
Foam for tight seal and sound attenuation.

ALGRILLE FLOW SPECIFICATIONS AND PERFORMANCE GRAPH  
FULLY OPEN



## Dimensional Data

P/N	SIZE	A	B	C	D
40 103	3"	2-7/8"	1"	1" to 1-7/8"	4-5/8"
40 104	4"	3-1/4"	1"	1-7/8" to 3-1/4"	5-7/8"
40 105	5"	3-1/2"	1-1/4"	2" to 3-1/4"	6-1/4"
40 106	6"	4-11/16"	1"	1-3/4" to 3-1/4"	7-1/2"
40 108	8"	6-3/4"	1-3/4"	2-1/2" to 3-3/4"	9-5/8"



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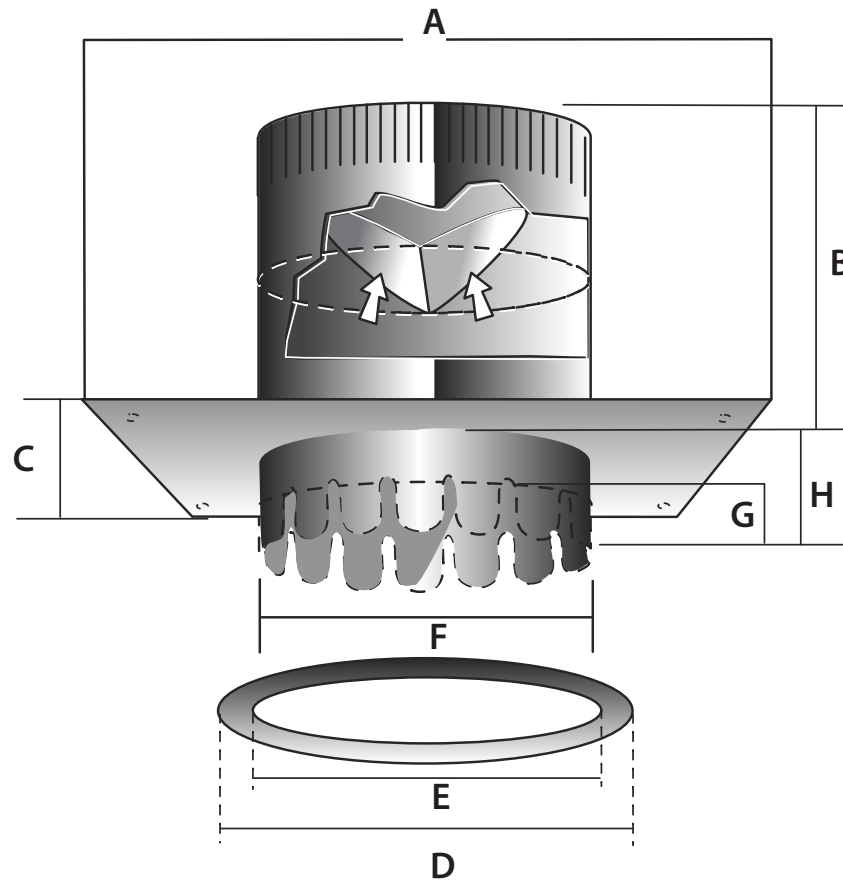


# ROOF CAPS, WALL HOODS, GRILLES & DUCT FITTINGS

## Universal Sleeves

### With Gravity Backdraft Dampers

PRODUCT  
SPECIFICATIONS  
& TECHNICAL  
DATA



DIMENSIONAL DATA									
PART NUMBER	DESCRIPTION	Dia. A	B	C	Dia. D	Dia. E	Dia. F	G	H
22 194	4" Dia. Sleeve	9"	5-1/2"	7" x 9"	5"	4-1/8"	4"	1/2"	1"
22 195	5" Dia. Sleeve	10"	5"	8" x 10"	5-3/4"	5-1/8"	4-15/16"	1/2"	1"
22 196	6" Dia. Sleeve	11"	5-1/2"	9" x 11"	7"	6"	5-7/8"	1/2"	1"

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Universal Sleeve with BDD\_spec\_1013