

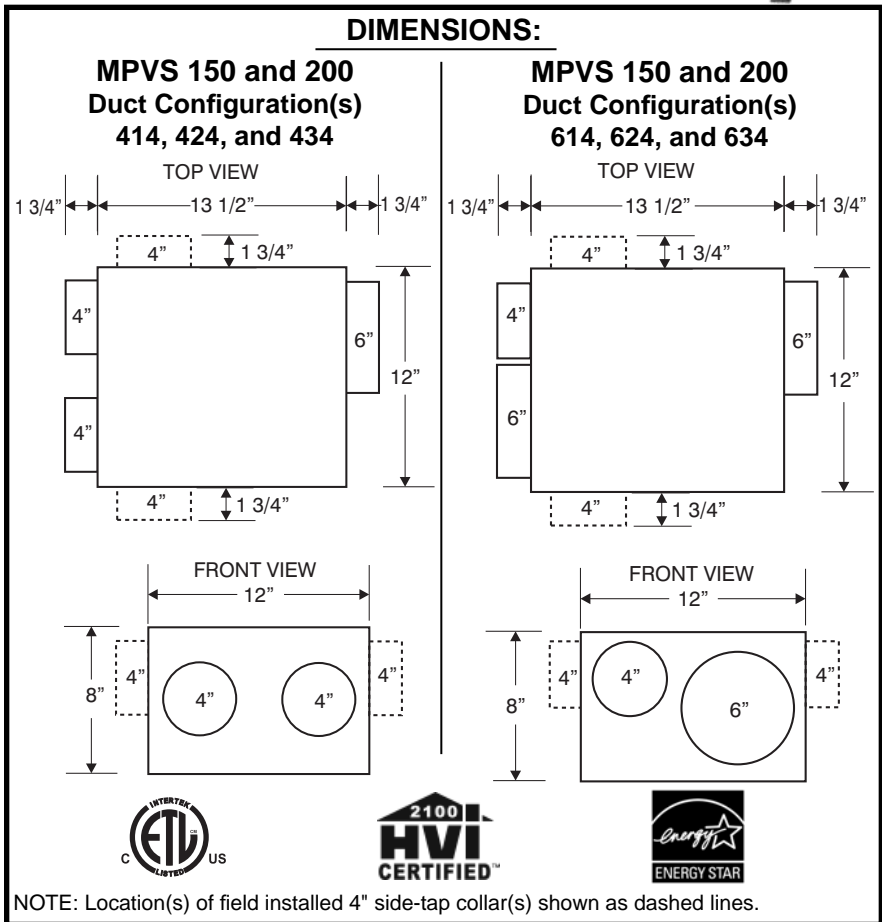
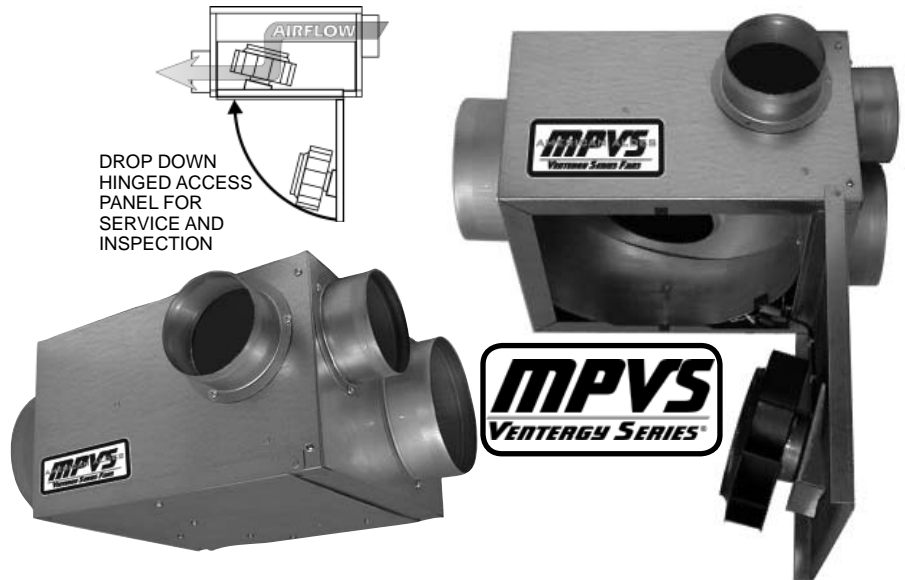
General: MPVS Series Multi-Port ventilators are highly versatile continuous duty rated fan units for residential and light commercial applications, and meet ENERGY STAR efficiency criteria for low energy consumption. The most popular use for the fan is central exhaust ventilation of bathrooms, kitchens, 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 principle advantage of the MPVS central exhaust system is the elimination of standard noisy bath fans, with the obvious benefits of quiet operation and reduced penetrations to the exterior of the building. In addition, with the increased tightness of construction for energy efficient buildings, there is a growing need of mechanical ventilation for indoor air quality. These fans are designed to serve this purpose as well, by providing effective bathroom ventilation, with the ability to run intermittently or continuously as needed. The quiet, energy efficient permanent split capacitor external rotor motor has permanently sealed bearings that provide many years of maintenance-free performance.

Construction: The MPVS fan is constructed of heavy gauge galvanized steel to prevent corrosion caused by moisture. The cabinet is internally lined with UL rated, acoustic closed-cell foam vapor barrier insulation. This allows 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 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 from collecting on the blades and affecting airflow performance. 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 service and inspection, and can be removed from the



ELECTRICAL AND AIRFLOW PERFORMANCE*										
Model	Nominal RPM	HP	Watts at .2" Ps	MAX. AMPS	CFM vs. Static Pressure					
					0"	.2"	.4"	.6"	.8"	1.0"
MPVS-150	2200	0.06	41	.34	211	171	134	102	72	45
MPVS-200	2960	0.08	63	.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.

fan without disassembly of the ducting connections.

Controls: The fans can be operated manually, or automatically by a programmable timer or dehumidistat and 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 either horizontally or vertically.

Airflow Balancing: The flow rates can be set with either manually adjustable grilles, such as the ALGRILLES in the standard kit of accessories, or with preset ALDES Constant Airflow Regulators, used with fixed grilles with large free area as in the deluxe kit.

Standard Accessory Kit Option:

Each standard accessory kit includes round adjustable grilles constructed of heavy duty moisture resistant plastic. Also included are corresponding ceiling sleeves with integral energy saving back draft dampers that protect against drafts and risk of condensation in the duct when the MPVS is not being used.

Deluxe Accessory Kit Option: To ensure balanced exhaust points independent of duct lengths, the deluxe accessory kit includes constant airflow regulators at each point. A passively controlled element in each duct run inflates or deflates automatically in response to system pressure to maintain constant airflow. Also included are fixed Deco grilles constructed of heavy-duty moisture resistant plastic. Standard ceiling sleeves with integral energy saving back draft dampers are also included.

Typical Specification

Multi-Port Exhaust Fan: American ALDES Ventilation Corporation, Florida (1-800-255-7749). ALDES model MPVS 200.

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 the ENERGY STAR performance criteria for energy efficiency and bear the ENERGY STAR mark.

Construction: The housing shall be of a minimum 20 gauge steel with a G90 galvanized coating or baked enamel paint finish. All interior surfaces of the housing shall be lined with a UL recognized 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 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.

TABLE OF 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" SMOOTH
	50	50	30	400
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	6" FLEXIBLE	
175	20 ft	10 ft	4" Diameter - 4.0 ft. 6" Diameter - 7.0 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 longer duct runs are required than permitted in the table above, use smooth ducting and/or increase the diameter.

ELECTRICAL DATA

MPVS 150 / 200:
120 V, 60 Hz., .34/.53 amp., 41/63 W Max.,
2200/2960 RPM

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

WARRANTY

The entire unit is guaranteed for 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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