

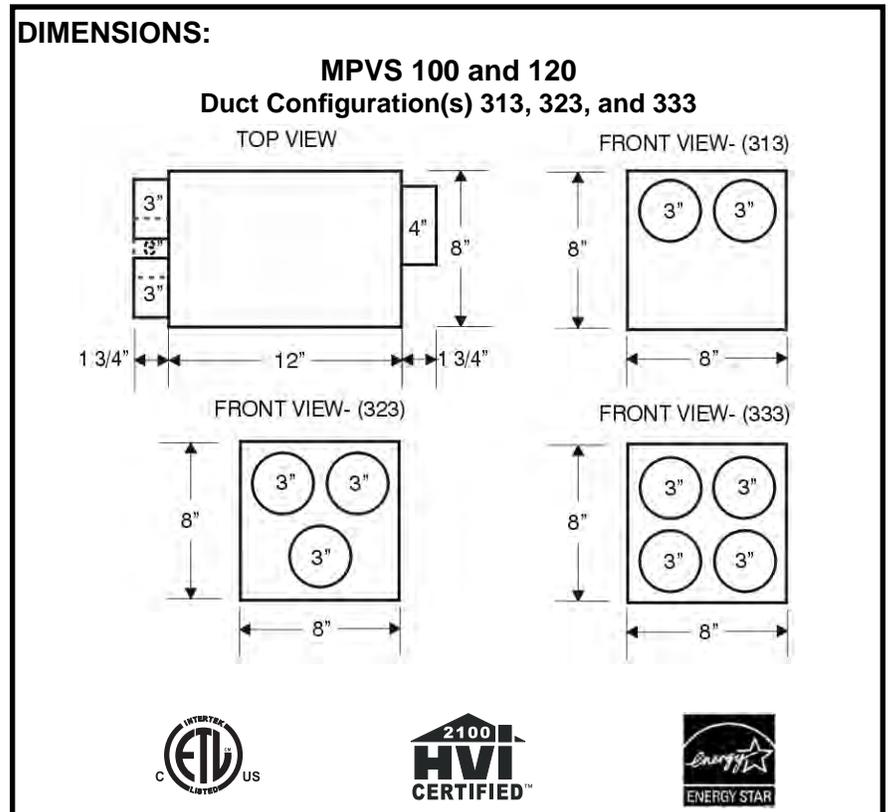
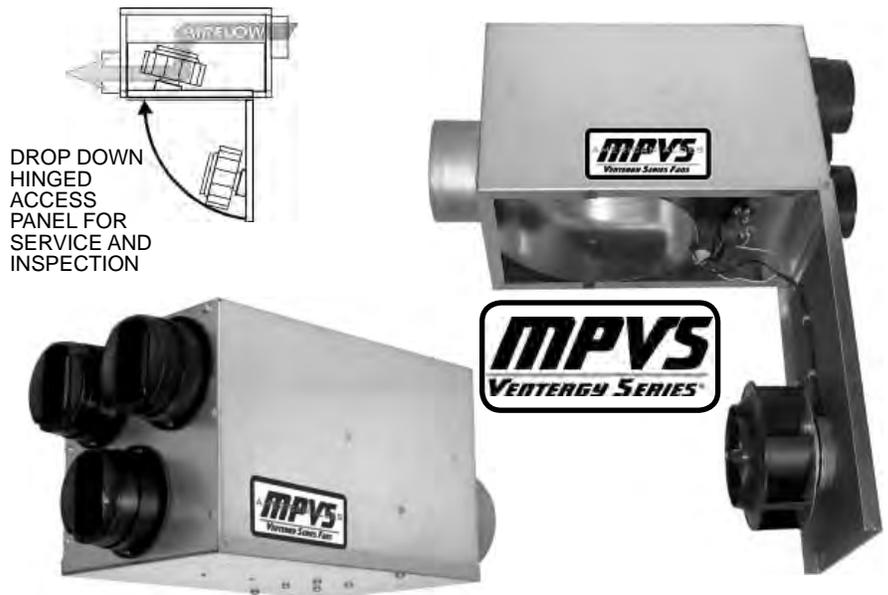
General: MPVS Series multi-port ventilators are highly versatile continuous duty rated fan units for residential and light commercial applications, and meet ENERGY STAR efficiency criteria for low energy consumption. The most popular use is central continuous exhaust ventilation of bathrooms, kitchens, 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 assurance of controlled indoor air quality ventilation and the elimination of standard noisy bath fans, with the obvious benefits of reduced penetrations to the exterior of the building. 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



ELECTRICAL AND AIRFLOW PERFORMANCE										
Model	Nominal RPM	HP	Volts	Watts at .2" Ps	MAX. AMPS	CFM vs. Static Pressure*				
						0"	.2"	.4"	.6"	.8"
MPVS-100	2980	0.03	120	22	0.19	108	88	68	48	25
MPVS-120	3135	0.05	120	38	0.29	143	128	112	95	74

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

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 fan without disassembly of the ducting connections.

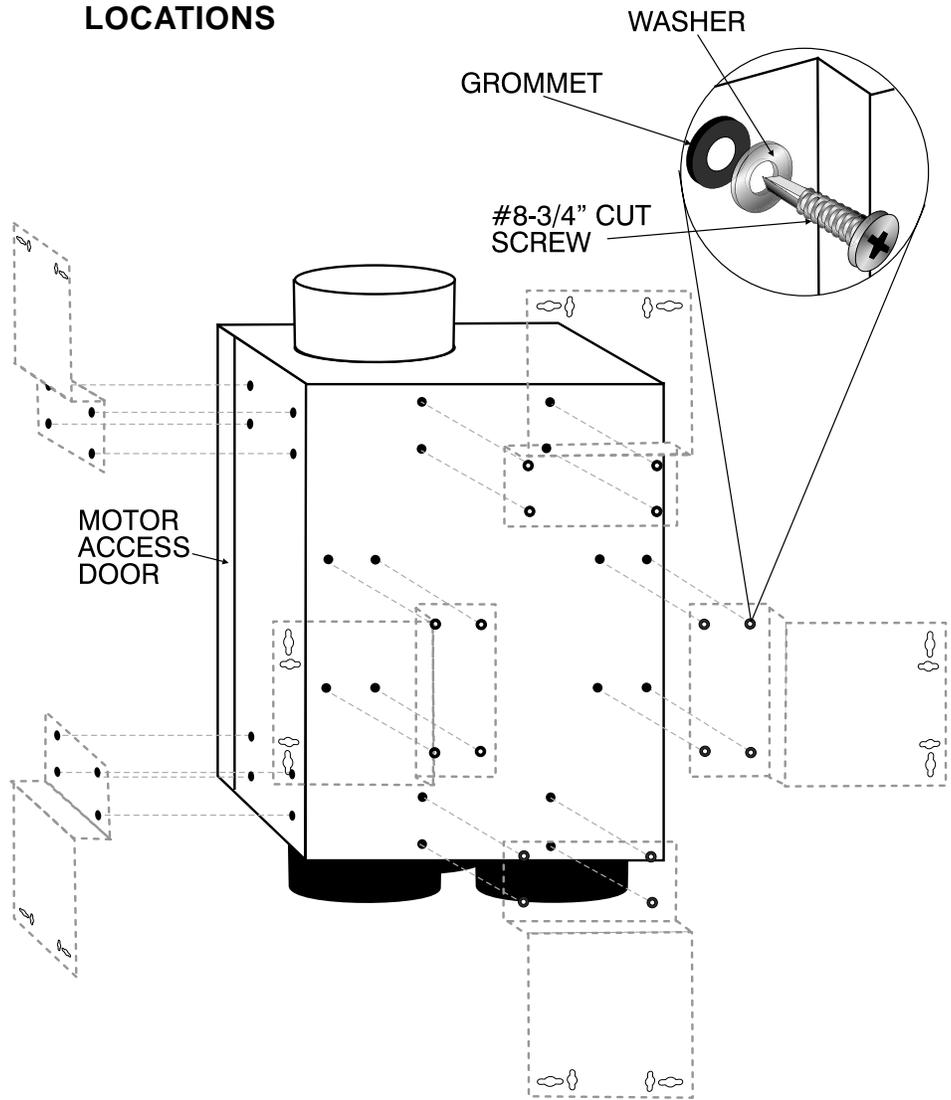
Controls: The fans can be operated manually, or automatically by a programmable timer or dehumidistat and may also be operated in conjunction with a variable speed control.

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 are automatically set with preset ALDES Constant Airflow Regulators.

A passively controlled element in each duct run inflates or deflates automatically in response to system pressure to maintain constant airflow.

MOUNTING BRACKET LOCATIONS



ELECTRICAL DATA	
MPVS 100 / 120	
120 V, 60 Hz., .19/.29 amp., 22/38 W Max., 2980 / 3135 RPM	
<i>Above ratings are intended for sizing electrical wiring only. Actual consumption will be lower.</i>	

TABLE OF AIRFLOWS AND DUCT LENGTHS*

AIRFLOW CFM	3" INTAKE DUCT TO FAN Recommended Max. Duct Length from Grille to Fan (ft.)		TOTAL EXHAUST RATE CFM	FAN DISCHARGE DUCT Assumes low pressure drop vent cap		FOR EACH ELBOW DEDUCT
	SMOOTH	FLEXIBLE		4" SMOOTH	4" FLEXIBLE	
10	225	180	60	40 ft	20 ft	3" Diameter = 3 Feet
20	65	50	75	25 ft	15 ft	
30	30	25	90	18 ft	12 ft	
40**	20	15	100	15 ft	9 ft	
50**	10	10	120	11 ft	8 ft	
			135	8 ft	6 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. **CAR Flow Regulators not available over 35 cfm. NOTE: If longer duct runs are required than permitted in the table above, use smooth ducting and/or increase the diameter.