

Ventergy Series® ventilator fans represent years of engineering development, which combine the energy efficiency and sound performance of a forward curved fan, with the durability and pressure characteristics of a backward inclined impeller fan.

General: FSVS filtering supply air ventilators are highly versatile continuous duty rated units for residential applications, and 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 back-drafting 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 fan is constructed of heavy gauge galvanized steel to prevent corrosion caused by moisture. The cabinet is internally lined with acoustic, UL rated, closed-cell foam vapor barrier insulation. This allows installation directly above living spaces, or in unheated plenum spaces without concern for noise or condensation.

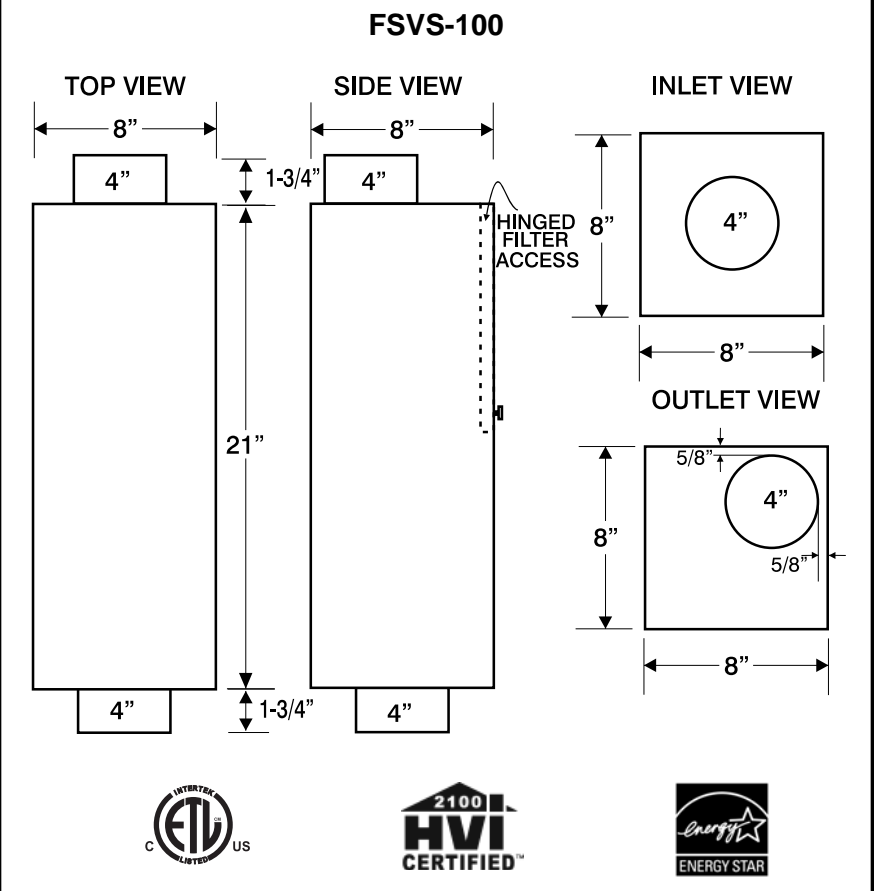
Fan and Motor: The fan motor is an energy efficient, permanent split capacitor type, with external rotor design. Totally sealed to protect against moisture and contaminants, it incorporates permanently lubricated sealed bearings and automatic reset thermal overload protection. It is designed and certified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

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

Fan Controls: The fan can be operated manually, or automatically by



DIMENSIONS:



ELECTRICAL AND AIRFLOW PERFORMANCE

Model	Nominal RPM	HP	Volts	Watts at .2" Ps	MAX. AMPS	CFM vs. Static Pressure*				
						0"	.2"	.4"	.6"	.8"
FSVS-100	3135	0.05	120	37	0.32	125	110	98	81	61

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

a programmable timer, dehumidistat, or other appropriate electronic switch device. The fan may also be operated in conjunction with a variable speed control.

Filters: The FSVS ventilator fan is designed to house several filter options, including a MERV 9 charcoal type to comply with ASHRAE 62.2 and ENERGY STAR requirements. Another compliant filter option is the permanent washable electrostatic type.

Serviceability: 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 housing without disassembly of the ducting 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 for access to filters.

Accessories: To ensure specified performance, each FSVS may be supplied with compatible back-draft dampers, and fresh air intake weather hood. Accessory packages are available to accommodate applications ranging from single bedroom apartments to four bedroom houses.

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.

Performance: Fan airflow and energy performance are tested in accordance with HVI standards.

Typical Specification

Single Port Supply Air Fan: American ALDES Ventilation Corporation, Florida (1-800-255-7749). ALDES model FSVS.

General: The fan shall be continuous duty type with a backward inclined centrifugal blower specifically designed for residential and commercial use. The fan shall be safety tested per UL standards and bear the agency listing certified mark. 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 22 gauge steel with a G90 galvanized coating or baked enamel paint finish. All interior surfaces of the fan 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" in total height or 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 filter must be accessible from a hinged drop-down access panel adjacent to the motor access. The supply air

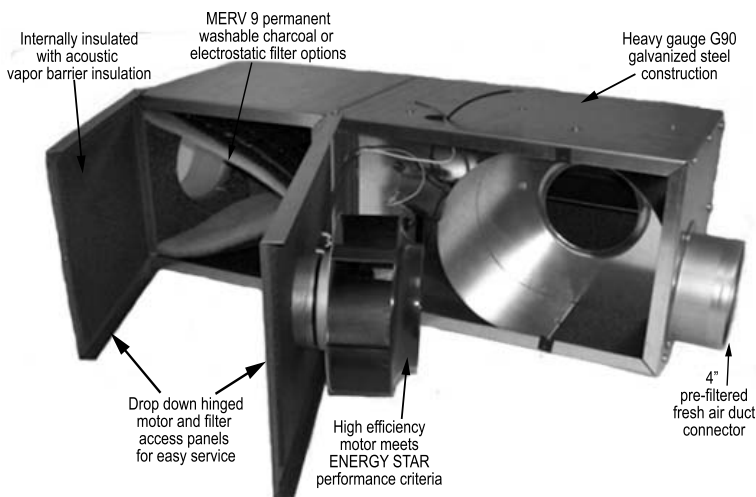
duct connections shall be dimensioned so as to accept constant airflow regulators with a secure fit. The intake and discharge duct dimension shall be nominal 4" round. Mounting brackets shall be provided for attachment to the fan housing allowing vertical or horizontal installations.

Motor: The motor shall be direct drive external rotor, high efficiency PSC type with permanently lubricated sealed ball bearings and designed for continuous operation. 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, 50/60Hz, single-phase current. The motor shall be listed for use with a solid-state speed control.

Filter: The fan shall be provided with an approved 1" pleated panel type disposable filter meeting the ASHRAE standard MERV 8 rating. An optional permanent electrostatic or MERV 9 charcoal filter shall be provided where specified. The filter shall be fully removable without the use of any tools and without disassembling internal partitions.

PRODUCT FEATURES



ELECTRICAL DATA

FSVS-100: 120 V, 60 Hz., 0.32 Amp, 37 W Max., 3135 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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