



VENTERGY SERIES® DISTRIBUTED SUPPLY AIR VENTILATOR MODEL DSVS-100

PRODUCT
SPECIFICATIONS
and TECHNICAL
DATA

Ventergy Series® 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.

General: DSVS distributed supply air ventilators are highly versatile continuous duty rated units for residential applications, and meet ENERGY STAR efficiency criteria for low energy consumption. The DSVS is designed to provide precise amounts of fresh outdoor air to bedrooms and/or living areas.

The DSVS 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 DSVS also reduces the risk of back-drafting heating appliances, water heaters and fireplaces. The DSVS ventilator fan uses a quiet, continuous duty, energy efficient external rotor motor with permanently sealed bearings that provide many years of maintenance free performance.

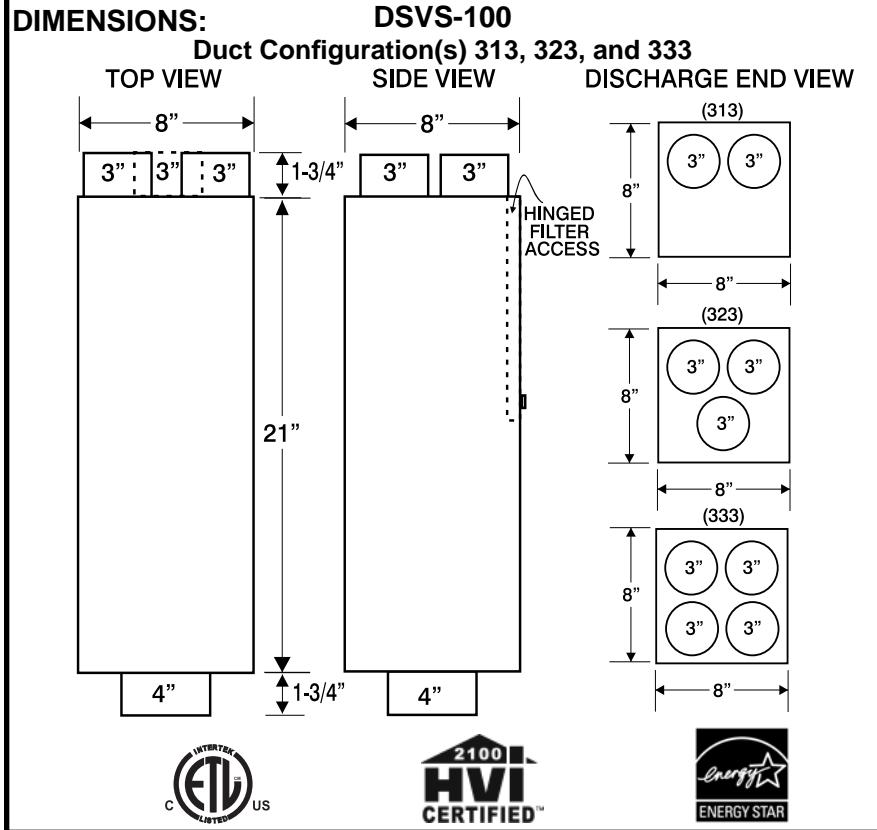
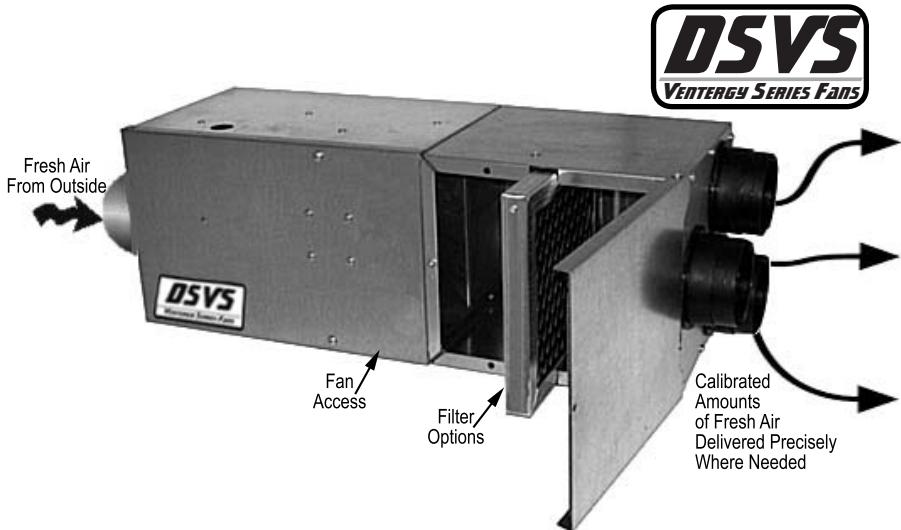
Construction: The DSVS fan is constructed of heavy gauge galvanized steel to prevent corrosion caused by moisture. The cabinet is internally lined with an acoustic, UL rated, closed-cell foam vapor barrier insulation. This allows installation directly above living spaces, or in unheated plenum spaces 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 a programmable timer, dehumidistat, or other appropriate electronic switch device. The fan may also be operated in conjunction with a variable speed control.

Airflow Controls and Balancing: Each fresh air duct takeoff includes an automatic self-balancing airflow regulator that ensures precise flow rates independent of duct lengths. A passively controlled element in each duct run inflates or deflates automatically in response to system pressure to maintain specified airflow rates.



ELECTRICAL DATA

DSVS-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.

ELECTRICAL AND AIRFLOW PERFORMANCE

Model	Nominal RPM	HP	Volts	Watts at .2" Ps	MAX. AMPS	CFM vs. Static Pressure*				
						0"	.2"	.4"	.6"	.8"
DSVS-100	3135	0.05	120	37	0.32	130	110	95	74	50

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

Filters: The DSVS is designed to house several filter options including a MERV 8 pleated disposable type to comply with ASHRAE 62.2 and ENERGY STAR requirements. Other filter options include a permanent washable electrostatic type filter, or a charcoal with MERV 9 arrestance rating.

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 DSVS is supplied with compatible supply grilles, corresponding rough-in boots, back-draft dampers, and fresh air intake weather hood. Accessory packages are available to accommodate applications ranging from a single bedroom apartment to a four bedroom house.

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. They can be installed either horizontally or vertically.

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

Typical Specification

Multi-port Supply Air Fan: American ALDES Ventilation Corporation, Florida (1-800-255-7749). American ALDES model DSVS.

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 duct dimension shall be nominal 4" round. The discharge duct dimensions

shall be nominal 3" round. Mounting brackets shall be provided for attachment to the fan housing allowing vertical or horizontal installations.

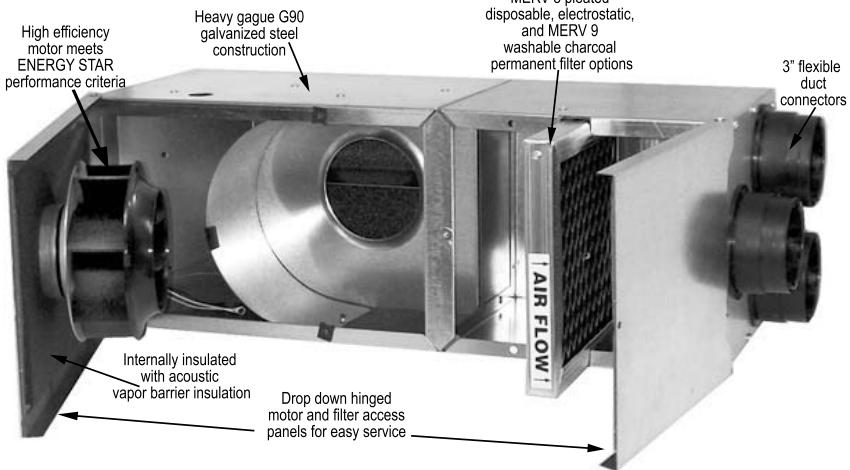
Motor: The motor shall be direct drive external rotor, high efficiency PSC type with permanently lubricated sealed ball bearings and designed for continuous operation. The motor shall have automatic thermal overload protection and must be totally sealed to protect against contaminants and moisture. Naturally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

Electrical: The fan shall operate on 115V, 50/60Hz, and single-phase current. The motor is 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.

Constant Airflow Regulators: Each supply air collar shall include an integral constant airflow control device that operates on duct system pressures, and maintains specified airflow rates over a range of 0.2" to 0.8" Ps w.g. Devices shall be installed in the duct connections and calibrated at the factory to the airflow rates as indicated on the drawings. The device shall not exhaust any air to the outside during operation.

PRODUCT FEATURES



3" supply diffusers
provided for ceiling or sidewall
installation



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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