



VENTERGY® SERIES FANS

DSVS100

Distributing Supply Air Ventilator

PRODUCT
SPECIFICATIONS
& TECHNICAL
DATA



VENTERGY® SERIES FANS

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 Distributing Supply Air Ventilators are highly versatile, continuous-duty rated units for residential applications. 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 backdrafting heating appliances, water heaters, and fireplaces. The DSVS 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 acoustic, closed-cell foam insulation that acts as a vapor barrier. 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 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 minimizes dust collection on blades. 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.

FILTERS

The DSVS is designed to house a MERV 8 disposable-type electrostatic activated-carbon filter to comply with ASHRAE 62.2 requirements.

SERVICEABILITY

The entire motor and fan assembly is mounted on a drop-down hinged access panel for simple service and inspection. It can be removed from the fan housing without disassembling the duct 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 to access the filters.

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 horizontally or vertically.

ACCESSORIES

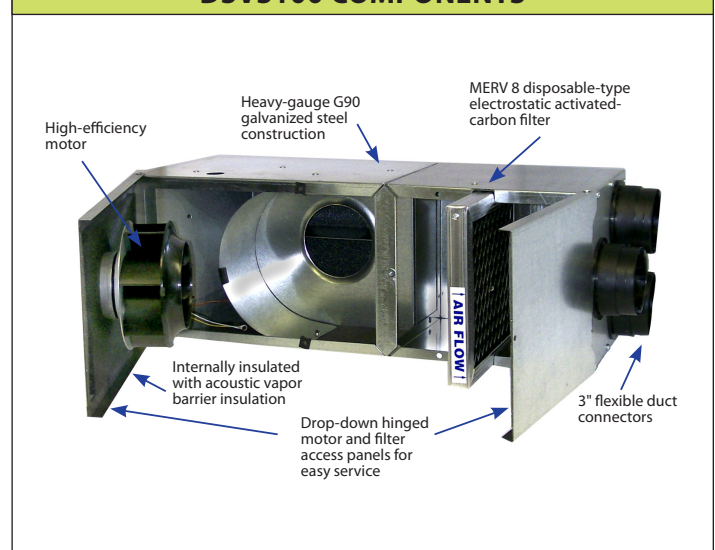
Accessories are available to accommodate applications ranging from single-bedroom apartments to five-bedroom houses. Accessories are included only when ordered as a Ventergy® Series IAQ-DSVS Distributing Supply Ventilator Kit.

Each supply air duct take-off can be fitted with an automatic self-balancing constant airflow regulator (CAR Classic) that ensures precise flow rates, independent of duct lengths. The passive control element in each duct run inflates or deflates automatically in response to system pressure to maintain specified airflow rates. CAR Classics are sold separately or provided with kits.

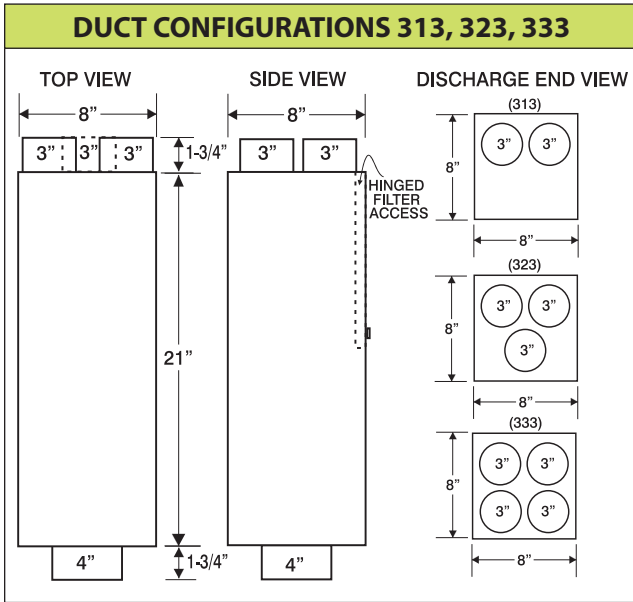
PERFORMANCE

Fan airflow and energy performance are tested in accordance with HVI procedures.

DSVS100 COMPONENTS



Dimensions & Performance



DSVS100 ELECTRICAL AND AIRFLOW PERFORMANCE*

Watts at 0.2" Ps	CFM vs. Static Pressure					
	0"	0.2"	0.4"	0.6"	0.8"	1.0"
37.1	130	112	94	73	50	20

*Certified airflow rating at 0.2" w.g. is derated from actual test results per HVI Certification procedure 920. The HVI Certified Rate for DSVS100 = 110 CFM.

NOTE: Performance shown does not reflect use of optional balancing devices.

ELECTRICAL DATA – DSVS100

115 V, 60 Hz, 34 W, 0.29 A, 3135 RPM

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



Typical Specification

MULTI-PORT SUPPLY AIR FAN

American ALDES Ventilation Corporation, Florida (1-800-255-7749). ALDES model DSVS100.

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.

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 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 a centrifugal-type, external-rotor motor 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 disassembling the duct 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 and 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 a MERV 8 disposable-type electrostatic activated-carbon filter. The filter shall be fully removable without the use of any tools and without disassembling internal partitions.

CONSTANT AIRFLOW REGULATORS

When specified, each return air and fresh air intake collar shall accommodate 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 calibrated at the factory to the specified airflow rates. The devices shall be field installed in the appropriate duct connections. The device shall not exhaust any air to the outside during operation.

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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