



# VENTERGY® SERIES FANS

## FSVS140

### Filtering Supply Air Ventilator

PRODUCT  
SPECIFICATIONS  
& TECHNICAL  
DATA



#### VENTERGY® SERIES FANS

Ventergy® Series Ventilator 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

FSVS Filtering Supply Air Ventilators are highly versatile, continuous-duty rated units for residential applications. They 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 backdrafting 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, closed-cell foam insulation that acts as a vapor barrier. This allows for 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. 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 FSVS is designed to house a disposable-type 1" pleated MERV 8 filter to comply with ASHRAE 62.2 and ENERGY STAR standards. 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 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. The fan can be installed horizontally or vertically.

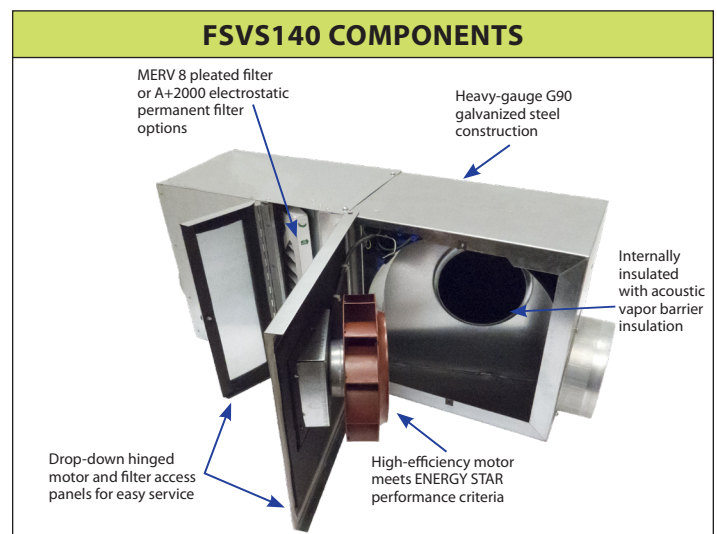
#### ACCESSORIES

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-FSVS Filtering Supply Ventilator Kit.

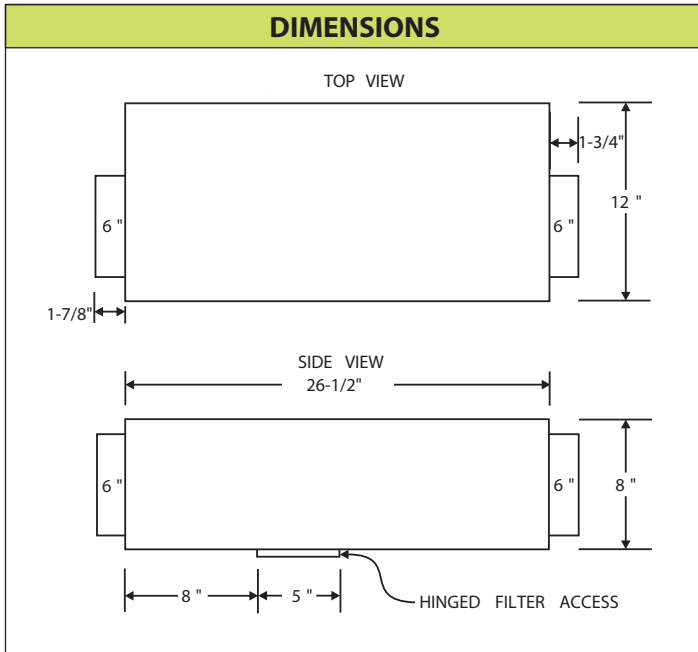
The fresh air duct take-off can be fitted with an automatic self-balancing constant airflow regulator (CAR-II) that ensures precise flow rates, independent of duct lengths. The passive control element in the duct run adjusts automatically in response to system pressure to maintain specified airflow rates.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

#### PERFORMANCE

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



# Dimensions & Performance



## FSVS140 ELECTRICAL AND AIRFLOW PERFORMANCE\*

Model	Watts at 0.2" Ps	CFM vs. Static Pressure					
		0.0"	0.2"	0.4"	0.6"	0.8"	1.0"
FSVS140	32.3	178	140	110	79	51	22

\*Certified airflow rating at 0.2" w.g. is derated from actual test results per HVI Certification procedure 920. The HVI Certified Rate for FSVS140 = 140 CFM.

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

### ELECTRICAL DATA

115 V, 60 Hz, 41 W, 0.34 A, 2200 RPM

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



## Typical Specification

### SINGLE-PORT SUPPLY AIR FAN

American ALDES Ventilation Corporation, Florida (1-800-255-7749). ALDES model FSVS140.

### 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 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 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 6" 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, 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 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

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 and then 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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