

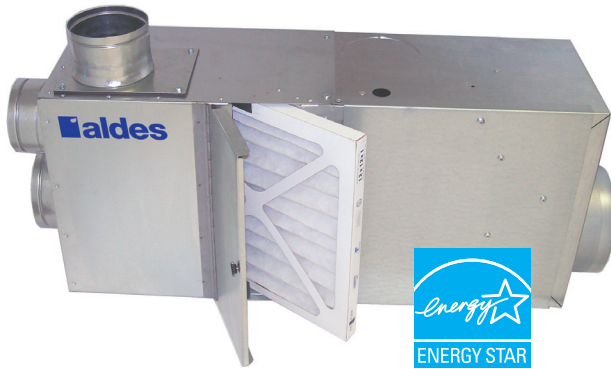


VENTERGY® SERIES FANS

BVS120 & BVS200

Blending/Filtering Ventilators

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

BVS Series Blending Ventilators are highly versatile, continuous-duty rated units for residential applications. They meet ENERGY STAR efficiency criteria for low energy consumption. The BVS is designed to provide fresh outdoor air and blend it with indoor air drawn from bedrooms or areas typically not served by a central thermostat before filtering and distributing this air to the main living areas of the home. Thermal comfort is enhanced because warmer air is drawn naturally from the heated living areas to the cooler bedrooms.

The BVS is designed to filter both indoor and 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 BVS also reduces the risk of backdrafting heating appliances, water heaters, and fireplaces. Quiet, continuous-duty, energy-efficient, external-rotor motors with permanently sealed bearings provide many years of maintenance-free performance.

CONSTRUCTION

BVS series fans are 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. Duct connecting collars may be relocated on the fan intake manifold to accommodate different installation requirements.

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. The entire motor and fan assembly is mounted on a

drop-down hinged access panel for simple service and inspection, and it can be removed from the fan without disassembling the duct connections.

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

Each BVS comes standard with a disposable-type 1" pleated MERV 8 filter to comply with ASHRAE 62.2 and ENERGY STAR standards. Permanent, washable, electrostatic-type filters are also available.

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.

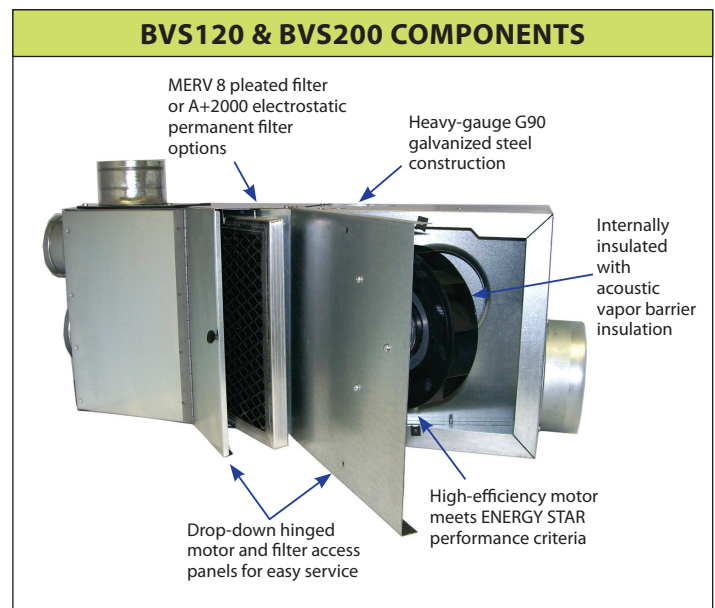
ACCESSORIES

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-BVS Blending/Filtering Ventilator Kit.

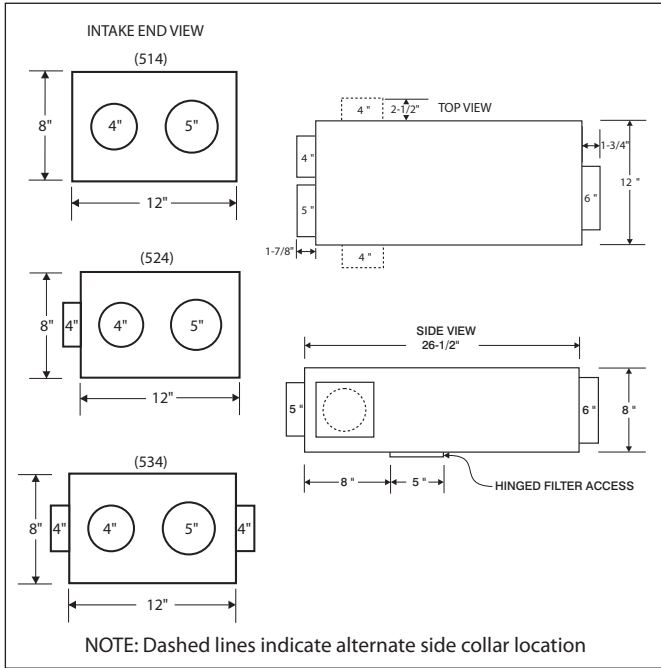
Each return and fresh air duct take-off can accommodate an automatic self-balancing constant airflow regulator (CAR-II) that ensures precise flow rates at each point, independent of duct lengths. A passive control element in each duct run adjusts automatically in response to system pressure to maintain specified airflow rates. CAR-II sold separately or provided with kits.

PERFORMANCE

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



Dimensions & Performance



| ELECTRICAL AND AIRFLOW PERFORMANCE* | | | | | | | | |
|-------------------------------------|------------------|-------------------------|------|------|------|------|------|-----------------------|
| Model | Watts at 0.2" Ps | CFM vs. Static Pressure | | | | | | ENERGY STAR Certified |
| | | 0.0" | 0.2" | 0.4" | 0.6" | 0.8" | 1.0" | |
| BVS120 | 34.2 | 184 | 148 | 115 | 85 | 55 | 26 | ✓ |
| BVS200 | 56.6 | 247 | 222 | 192 | 164 | 136 | 101 | ✓ |

*Certified airflow rating at 0.2" w.g. is derated from actual test results per HVI Certification procedure 920. The HVI Certified Rate for BVS120 = 140 CFM, BVS200 = 220 CFM.

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

ELECTRICAL DATA

BVS120: 115 V, 60 Hz, 41 W, 0.34 A, 2200 RPM
 BVS200: 115 V, 60 Hz, 59 W, 0.53 A, 2960 RPM

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



Typical Specification

BLENDING VENTILATOR FAN
 American ALDES Ventilation Corporation, Florida (1-800-255-7749). ALDES model BVS120 or BVS200.

GENERAL
 The fan shall be continuous-duty type with a backward-inclined centrifugal blower housed in a multi-port enclosure specifically designed for residential and commercial use. The fan shall be safety tested per UL standards and bear the agency listing certified mark, and be approved for use over cooking areas and tub/shower enclosures when used with GFCI branch circuiting. The fan must meet 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 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 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 disassembly of the ducting connections. The filter must be accessible from a hinged drop-down access panel adjacent to the motor access. The intake duct connections shall be dimensioned so as to accept constant airflow regulators with a secure fit. The intake duct dimensions shall be nominal 4" and 5" round. The discharge duct dimension shall be nominal 6" round. The fan housing and intake duct collar(s) shall be designed to allow removal and repositioning in the field to accommodate different installation

requirements. 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 parts.

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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