

BVS120 & BVS200

BLENDING/FILTERING VENTILATORS

VENTERGY® SERIES FANS



Product Description

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.

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 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.

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.

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 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.

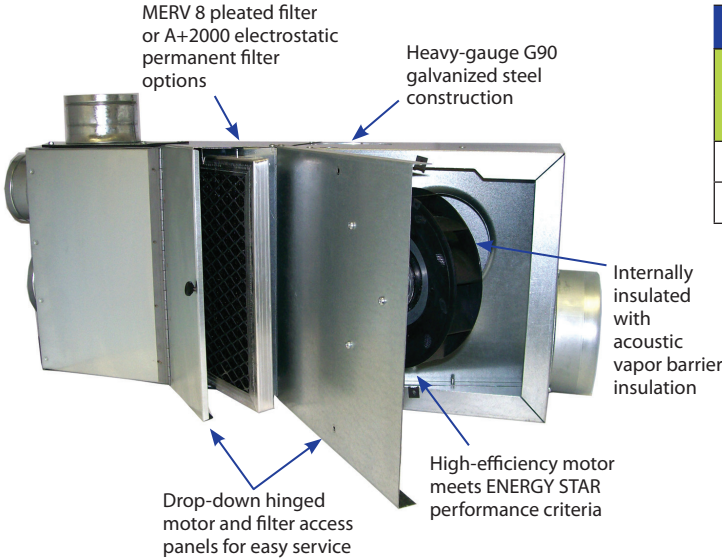
Accessories

Accessory kits are available to facilitate installation and enhance operation. Accessories kits are sold separately. Please visit aldes-na.com, or contact your local Aldes distributor for details.

Performance

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

BVS120 & BVS200 Components



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	140	115	85	55	26	✓
BVS200	56.6	247	220	192	164	136	101	✓

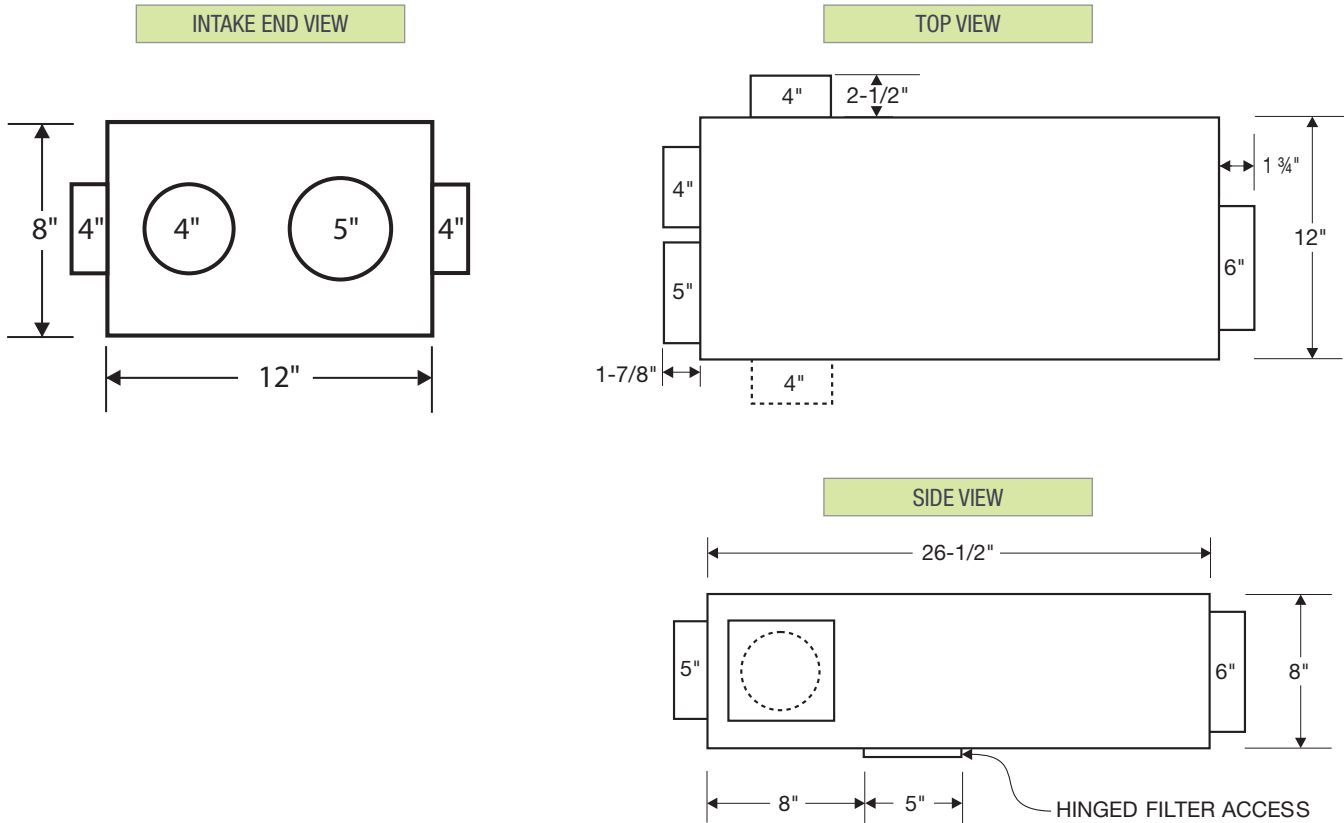
*Certified airflow rating at 0.2" w.g. is derated from actual test results per HVI Certification procedure 920.
The HVI Certified Rate for BVS120 = 140 CFM, BVS200 = 220 CFM.

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.*

Dimensions & Performance



NOTE: Dashed lines indicate field installed side collar location



Recommended Specification

ALDES North America model BVS120 or BVS200 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 meets ENERGY STAR performance criteria for energy efficiency and bear the ENERGY STAR mark.

CONSTRUCTED of a minimum 22-gauge steel with a G90 galvanized coating or baked enamel paint finish housing. All interior surfaces of the housing is 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. A centrifugal-type, external-rotor motor with backward-inclined impeller blades blower. 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 is 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 provided for attachment to the fan housing, allowing vertical or horizontal installations.

MOTOR is a 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.

3 YEAR WARRANTY for entire unit, 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.