Fiberglass Products
Product Line Overview & Capabilities
When dealing with corrosive environments, selecting the right fan is essential for achieving optimal performance and for increasing the longevity of the equipment. Whether you require a fan for a chemical, pulp and paper, or water treatment application, Aerovent can provide a wide range of fiberglass fans that are designed to deliver maximum corrosion resistance. We also offer a variety of accessories, multiple types of fiberglass materials and optional features such as Spark Resistant Construction.

**Typical Applications**
- Fume control / fume exhausting
- Odor control
- Oil mist emissions
- Pollution / emissions control
- Process control, heating or cooling
- Scrubbers

**Typical Industries**
- Fertilizer
- Metal & mineral processing
- Pulp & paper
- Petrochemical
- Pharmaceutical
- Steel processing
- Water and wastewater treatment

**Advantages of Fiberglass Fans**
- Superior corrosion resistance to gases and vapors
- Lower maintenance costs
- More economical than stainless steel construction
Many of today’s processes incorporate chemical components that are not compatible with ferrous metal with quality coatings or high-nickel, white metals, like stainless steel and Monel. Over time these chemical will break down even the toughest composite (FRP) materials. Many chemicals contain fluorine. Acids such as Hydrofluosilicic or Hydrofluoric are two such examples. In addition, depending on concentration, temperature and state (gas or liquid), some relatively innocuous chemicals can break down metals and over time even FRP.

For applications with highly corrosive chemicals and where safety of the operating personnel and the surrounding equipment is the highest concern, Aerovent has developed FRP housings for the BCF fan designed to contain the impeller in the event of a catastrophic failure. With some of the fans operating with tip-speeds over 25,000 feet per minute, impeller components can become missiles destroying standard FRP and metallic housings. The design is not meant to be indestructible, but to contain any parts from penetrating the housing wall.

The proprietary design incorporates many strategic laminate structure as well as reinforcement changes from our standard housing. Aerovent’s containment housing is designed to contain an impeller up to 1.22 times the max catalog speed of the fan.

For more questions, please contact your local Aerovent sales representative. To find your local representative, visit www.aerovent.com.

Aerovent’s BCF fan is available with carbon fiber wheel in lieu of traditional fiberglass. Designated by the fan class (CF = carbon fiber; FG = fiberglass), the material change allows the BCF to reach RPM limits well beyond the limits of the traditional fiberglass. This higher limit translates into a fan able to reach pressures up to 34” w.g.

In addition to the higher pressure capability, the lighter carbon fiber wheel allows for lower weight and moment of inertia (WR²). This allows for less stress on the motor and drive package (belt driven). See page 4 for more information about Aerovent’s BCF fiberglass fans.
Model BCF
Backward Curved High Pressure Centrifugal Composite Fans, SWSI

The BCF Centrifugal Composite Fan is a backward curved industrial fan designed for handling particulate-free, corrosive or caustic air in high pressure applications where conventional steel and stainless steel fans would corrode. Typical industries that utilize this style of fan include pulp-and-paper, steel processing, petrochemical plants, and wastewater-treatment facilities. All of the parts that are exposed to the airstream are constructed of high-quality corrosion resistant materials to avoid material breakdown from most chemicals. The BCF also features a wide wheel and housing, producing a high volume of air at a lower velocity.

Wheel Design
Four wheel designs are available for the BCF product line. Two medium pressure wheels (M1 and M2) and two high pressure wheels (H1 and H2) all feature a non-overloading wheel design suitable for applications requiring large volumes of air at moderate to high pressures. All wheels are available in either fiberglass (Class FG) or carbon fiber (Class CF) construction.

Optional Accessories
- Access Door
- Shaft Seal
- Flanged Inlet & Outlet
- Housing Drain
- Vibration Isolation Bases
- Inlet Box
- Outlet Damper
- Fan Guards

Optional Construction
- Static Grounding
- ASTM D4167 Construction

Optional Materials
- Vinyl Ester
- Surface Veil

Sizes (Wheel Diameters)
- 16.5" to 60" (14 Sizes)

Performance
- Airflow to 151,000 CFM
- Static pressure to 34" w.g.
- Airstream temperature to 200° F

Arrangements
- Available in Arrangements 1, 8, 9, 9F, 10
Model SWCBF
Airfoil Fiberglass Centrifugal Fans, SWSI

The SWCBF fiberglass fan is constructed for durability and resistance to most chemicals. All airstream parts are constructed of fiberglass reinforced plastic and mounted on an all-welded, heavy-gauge steel base. All fiberglass parts are coated inside and outside with resin (with UV inhibitor), approximately 10 mils in thickness, to seal and provide protection from ultraviolet light. This results in a smooth, high gloss finish. All steel parts are finished with an air dry epoxy paint. The aluminum hub and carbon steel shaft assembly are bolted to the fiberglass wheel and completely coated with fiberglass laminate for maximum corrosion protection.

Wheel Design
Features Aerovent's FA9 wheel with backward inclined airfoil blades offering a power limiting characteristic, high operating efficiency and low noise levels.

Optional Accessories
- Raised Bolted Cleanout Door
- Weather Cover (Arr. 10)
- OSHA Type Belt Guard (Arr. 1 & 9)
- Shaft & Bearing Guard (Arr. 1 & 9)
- Flanged Inlet
- Unitary Base (Arr. 1 & 9)
- Vibration Isolators (Rubber-in-shear or Spring)
- Housing Drain
- Shaft Seal

Optional Construction
- Static Grounding
- ASTM D4167 Construction

Optional Materials
- Vinyl Ester
- Surface Veil
- Fire Retardant Resin

Sizes (Wheel Diameters)
- 12" to 39" (6 Sizes)

Performance
- Airflow to 31,000 CFM
- Static pressure to 13" w.g.
- Airstream temperature to 200° F

Arrangements
- Available in Arrangements 1, 9, 10
Model RBF
Fiberglass Radial Bladed
Centrifugal Fans

The RBF fiberglass fan offers superior corrosion resistance to gases, fumes, and vapors. The RBF’s fan housings feature one piece, fabric-reinforced construction utilizing corrosion-grade resins. A glass veil is standard for airstream surfaces providing a resin rich liner to maximize chemical resistance.

The standard resin used for the RBF is resistant to a large variety of alkalis and other chemical agents. When a corrosion resistant fan is required to withstand chemicals that attack glass or polyester resin, special plastic and reinforcing material can be supplied.

Wheel Design
The RBF wheel features a radial blade design. All wheels are constructed of solid FRP with a steel hub embedded and encapsulated into the backplate.

Optional Accessories
- Bolted Inspection Door
- Weather Cover (Arr. 10)
- OSHA Type Belt Guard (Arr. 1 & 9)
- Flanged Inlet
- Unitary Base (Arr. 1)
- Vibration Isolators (Rubber-in-shear or Spring)
- Housing Drain
- Shaft Seal

Optional Construction
- Static Grounding (Hazardous Fumes)

Optional Materials
- 304 SS or 316 SS (bearing pedestals and inlet supports)
- Synthetic surfacing veil
- Special resins to suit specific applications
- Fire Retardant Resin reduces the resin’s tendency to burn. Antimony trioxide is included to attain a flame spread rating of 25 or less.

Sizes (Wheel Diameters)
- 10” to 57” (14 Sizes)

Performance
- Airflow to 38,300 CFM
- Static pressure to 18” w.g.
- Airstream temperature to 200° F

Arrangements
- Available in Arrangements 1, 9, 10
Model HPBF
Fiberglass Radial Bladed
High Pressure Blowers

HPBF Fiberglass Pressure Blowers are recommended for relatively small, but constant, volumes of air at high static pressure. All airstream parts are constructed of fiberglass reinforced plastic, with excellent corrosion resistance to most chemicals. The radial type wheel is resin transfer molded (RTM) from a resin-glass mixture providing optimal strength and corrosion resistance. All wheels are dynamically and statically balanced after testing.

Belt driven Arrangement 1 or direct drive Arrangement 8 are available and are supplied with heavy-gauge steel bases, finished with two coats of light gray epoxy paint. Arrangement 1 can be furnished with a slide rail base for ease in adjusting belt tension.

Wheel Design
The HPBF’s wheel is cast from a resin-glass mixture providing optimal strength and corrosion resistance.

Optional Accessories
- OSHA Type Belt Guard (Arr. 1 & 9)
- Coupling Guard (Arr. 8)
- Shaft and Bearing Guard (Arr. 1 & 8)
- Housing Drain
- Flanged Inlet and Outlet
- Shaft Seal
- Vibration Isolators (Rubber-in-shear or Spring)
- Unitary Base
- Graphite Impregnation

Optional Materials
- 316 Stainless Steel Fan Shaft
- Dow Vinyl Ester
- Nexus Veil
- Fire Retardant Resin

Sizes (Wheel Diameters)
- 18" to 28" (3 Sizes)

Performance
- Airflow to 4,700 CFM
- Static pressure to 36” w.g.
- Airstream temperature to 225° F

Arrangements
- Available in Arrangements 1, 8, 9, 10
Model CBDF
Fiberglass Inline Centrifugal Fan

The CBDF Fiberglass Inline Centrifugal Fan is designed to provide straight-through airflow. This combines the compact advantage of an axial flow fan with the performance characteristics of a centrifugal fan. The CBDF is constructed with straightening vanes to improve the efficiency and the pressure characteristics by minimizing turbulence downstream from the fan and converting rotational energy at the wheel discharge into useful work. The fan is also incorporates bearing lubrication lines that extend to the outside of the fan housing for ease of maintenance.

Constructed of fiberglass (FRP), the CBDF is primarily used for exhausting gases, fumes and vapors from chemical processes. Airstream parts are constructed of fiberglass reinforced plastic for resistance to a wide variety of acids, alkalies and other chemical agents.

Wheel Design
Features Aerovent’s FA9 wheel with backward inclined airfoil blades offering a power limiting characteristic, high operating efficiency and low noise levels.

Optional Accessories
• Fiberglass Motor Cover
• Fiberglass Curb Base
• Fiberglass Stack Cap
• Exterior Stainless Steel Hardware
• Housing Drain
• Horizontal Support Legs
• Bolted Inspection Door
• Stack Cap Bird Screen
• Ceiling Suspension Brackets

Optional Construction
• Static Grounding (Hazardous Fumes)

Optional Materials
• Vinyl Ester
• Surface Veil
• Fire Retardant Resin

Sizes (Wheel Diameters)
- 12” to 39” (6 Sizes)

Performance
- Airflow to 35,900 CFM
- Static pressure to 7” w.g.
- Airstream temperature to 200° F

Arrangements
- Arrangement 9 (Belt Driven)
Model TFBD & VTFBD
High Pressure Axial Fans

Model TFBD (Tubeaxial)
The Model TFBD is the belt driven tubeaxial fiberglass axial flow fan utilizing a 7-bladed propeller. It fulfills the need for a corrosion resistant fan with more performance capability and lower noise level. The propeller, housing, bearing base and inner support structures are constructed of glass reinforced plastic.

Model VTFBD (Vaneaxial)
Adding a vane section to the Model TFBD tubeaxial fiberglass axial flow fan converts it to a Model VTFBD vaneaxial fan for improved performance.

Propeller Design
The TFBD & VTFBD propellers are constructed using a resin transfer method (RTM). Glass cloth is cut to various template sizes to form laminations which are fitted into a mold. Glass is impregnated with “vinyl ester” in a low-pressure injection process. The fan’ propeller is cured under pressure in the mold, forming a monolithic structure.

Optional Accessories
• Fiberglass Curb Base
• Fiberglass Stack Cap
• Companion Flanges
• Stack Cap Bird Screen
• OSHA Type Inlet/Outlet Guard
• Bolted Inspection Door
• Horizontal Support Legs
• Exterior Stainless Steel Hardware

Optional Construction
• Static Grounding (Hazardous Fumes)

Optional Materials
• Vinyl Ester
• Surface Veil
• Fire Retardant Resin

Sizes (Propeller Diameters)
- 12" to 60" (16 Sizes)

Performance
- Airflow to 83,200 CFM
- Static pressure to 4" w.g. (VTFBD)
- Static pressure to 2.5" w.g. (TFBD)
- Airstream temperature to 200° F

Arrangements
- Arrangement 9 (Belt Driven)
Model FBD
Fiberglass Tubeaxial Fans

The model FBD belt driven tubeaxial fan is constructed from corrosion-resistant FRP and utilizes fiberglass propeller for medium performance range requirements. The standard resin used for the FBD is resistant to a large variety of alkalis and other chemical agents. All fiberglass parts are coated inside and outside with resin (with UV inhibitor), approximately 10 mils in thickness, to seal the surface and provide a smooth finish.

Propeller Design
The FBD’s propeller is constructed with glass cloth impregnated with vinyl ester resin and secured to a 316 stainless steel fan shaft by a stainless steel retainer bold and washer. Propellers shall be statically and dynamically balanced to ensure quiet operation.

Optional Accessories
• Fiberglass Curb Base
• Fiberglass Stack Cap
• Stack Cap Bird Screen
• Exterior Stainless Steel Hardware
• OSHA Type Inlet/Outlet Guard
• Horizontal Support Legs
• Bolted Inspection Door

Optional Construction
• Static Grounding (Hazardous Fumes)

Optional Materials
• Vinyl Ester
• Surface Veil
• Fire Retardant Resin

Sizes (Propeller Diameters)
- 14” to 60” (10 Sizes)

Performance
- Airflow to 51,900 CFM
- Static pressure to 1.5” w.g.
- Airstream temperature to 200° F

Arrangements
- Arrangement 9 (Belt Driven)
Model FDP  
Fiberglass Wall Panels Fans

Design to withstand corrosive environments, the FDP’s standard housing is fabricated with an integral inlet side mounting flange. It incorporates a solid FRP motor base that is reinforced with solid FRP support struts.

**Propeller Design**
The FDP’s propeller is constructed with glass cloth impregnated with vinyl ester resin.

**Optional Accessories**
- Stainless Steel Hardware
- Inlet/Outlet Guard
- Automatic Stainless Steel or Fiberglass Shutter
- Stainless Steel Mounting Adapter
- Fiberglass Extension Sleeve
- Option Fiberglass Mounting Flange
- Inlet/Outlet Guard

**Optional Materials**
- Vinyl Ester
- Surface Veil
- Fire Retardant Resin

Sizes (Propeller Diameters)
- 12" to 48" (9 Sizes)

**Performance**
- Airflow to 41,900 CFM
- Static pressure to 1" w.g.
- Airstream temperature to 200° F

**Arrangements**
- Direct Drive

Model FRV  
Fiberglass Tubeaxial Roof Ventilators

The model FRV is designed for roof mounted exhaust applications where corrosion resistance is a primary consideration.

**Propeller Design**
The FRV’s propeller is constructed with glass cloth impregnated with vinyl ester resin and secured to a 316 stainless steel fan shaft by a stainless steel retainer bold and washer.

**Optional Accessories/Construction**
- Stack Cap Bird Screen
- Exterior Stainless Steel Hardware
- Bolted Inspection Door
- Static Grounding (Hazardous Fumes)

**Optional Materials**
- Vinyl Ester
- Surface Veil
- Fire Retardant Resin

Sizes (Propeller Diameters)
- 14" to 60" (10 Sizes)

**Performance**
- Airflow to 50,800 CFM
- Static pressure to 1.5" w.g.
- Airstream temperature to 200° F

**Arrangements**
- Arrangement 9 (Belt Driven)
Models AWA & AWAB
Upblast Centrifugal Roof Ventilators

Model AWA & AWAB fiberglass roof ventilators are specifically designed for applications requiring the exhaust of chemical fumes or cooking grease where the removal away from the roof line is required. These units are ideal for use with ducts, hoods, or canopies over interior work areas. The AWA & AWAB are commonly used in natatoriums, aquariums, indoor swimming pools, laboratories, waste water treatment plants, and any other area where corrosive fumes present a problem.

Optional Accessories
- Gravity (PVC) and Motorized (Aluminum) Backdraft Dampers
- Fiberglass Roof Curbs
- Bird Screen
- Curb Hinge

AWA - Direct Drive
- 7" to 18" Wheel Diameters (5 Sizes)
- Airflow to 3,030 CFM
- Static pressure to 1" w.g.

AWAB - Belt Driven
- 14" to 40" Wheel Diameters (6 Sizes)
- Airflow to 21,500 CFM
- Static pressure to 2" w.g.

Models AFA & AFAB
Downblast Centrifugal Roof Ventilators

Model AFA & AFAB fiberglass roof ventilators are specifically designed for the exhaust of moisture-laden, corrosive, or chemically contaminated air frequently associated with natatoriums, aquariums, indoor swimming pools, laboratories, and waste water treatment plants.

The fiberglass housings are virtually impossible to dent, crack, or break and is resistant to weather, salt spray, and most chemicals. Fiberglass housings also absorb noise and vibration.

Optional Accessories
- Gravity (PVC) and Motorized (Aluminum) Backdraft Dampers
- Fiberglass Roof Curbs
- Bird Screen
- Curb Hinge

AFA - Direct Drive
- 7" to 18" Wheel Diameters (7 Sizes)
- Airflow to 3,125 CFM
- Static pressure to 1" w.g.

AFAB - Belt Driven
- 12" to 40" Wheel Diameters (7 Sizes)
- Airflow to 19,500 CFM
- Static pressure to 1.75" w.g.
Models AHA & AHAB
Louvered Centrifugal Wall Ventilators

Model AHA & AHAB fiberglass centrifugal wall ventilators are designed to mount compactly within an exterior wall and satisfy general building exhaust requirements. The AHA & AHAB provide high performance ventilation without distracting from the architectural lines of a building’s exterior. Only the aluminum fixed louver, which fits flush with the building’s wall, is visible from the outside of the building. From the interior, the unit presents a clean, molded fiberglass venturi.

Optional Accessories
- Duct adapter kit for use when AHA/AHAB is used as an inline centrifugal unit
- Disconnect Switch
- Companion Angles

AHAB - Belt Driven
- 12" to 30" Wheel Diameters (5 Sizes)
- Airflow to 9,820 CFM
- Static pressure to 1" w.g.

Model ASA
Centrifugal Wall Ventilators

Model ASA fiberglass wall ventilators are ideal for applications where exhausting from the roof is impractical or impossible. The ASA is commonly used in natatoriums, aquariums, indoor swimming pools, laboratories, and waste water treatment plants. Its quiet operation allows the unit to be placed in close proximity to work areas for maximum exhaust benefits and worker comfort. The exterior design and molded-in beige color blend in with most brick and exterior wall colors without detracting from overall building appearance.

Optional Accessories
- Wall Shutters

Sizes (Propeller Diameters)
- 7" to 14" (4 Sizes)

Performance
- Airflow to 2,230 CFM
- Static pressure to 1" w.g.
Model AMA
Square Gravity Relief & Intake Ventilators

Model AMA relief ventilators are designed for providing relief for positive pressure, gravity exhaust of heat and smoke, or air intake supply. These units are molded of tough, chemical resistant polyester resins and heavy-weave glass cloth. The AMA’s two-piece fiberglass housing is strong and efficient, never needs painting and remains unaffected by weather and most chemicals. The beige color and low silhouette make it inconspicuous from the street.

Sizes (Square Throat Sizes)
- 6” to 60” (16 Sizes)

Performance
- Airflow to 40,000 CFM
- Static pressure to 1” w.g.

Optional Accessories
- Gravity and Motor Operated Backdraft Dampers
- Fiberglass Roof Curbs
- Curb Hinge
The corrosion-resistance guide below provides general data to guide the application of Aerovent's standard fiberglass fans based on the corrosive agent within the gas stream. This data is based on a maximum gas stream temperature of 200°F at relatively low concentrations.

### Legend of Symbols

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<th>S - Satisfactory Application</th>
<th>L - Limited Life or Life Tests Incomplete</th>
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***Consult Aerovent for applications where the corrosive agent concentration and gas temperature is known.