



VPC
FIBERGLASS

COMPOSITE FAN TECHNOLOGY + PRIMARY PLASTICS DIVISIONS

ENGINEERED TO OUTLAST

FIBERGLASS FANS, DUCT, AND ACCESSORIES
BUILT FOR CORROSIVE ENVIRONMENTS.

AN AMERICAN MANUFACTURER

ABOUT VPC FIBERGLASS

Virtual Polymer Compounds (VPC Fiberglass) operates multiple production facilities in New York State, supported by experienced fiberglass fabricators, engineers, and sales professionals with extensive knowledge of composite materials and HVAC technology.

Our manufacturing capabilities extend across a broad range of FRP products, from **air-handling equipment to shelters, enclosures, buildings, flumes, metering manholes, and custom-fabricated components**. Serving industrial, municipal, government, and commercial markets, VPC combines in-house engineering with versatile manufacturing capabilities to develop fiberglass solutions around the unique requirements of each application.

COMPOSITE FAN TECHNOLOGY & PRIMARY PLASTICS

VPC Fiberglass manufactures a complete line of fiberglass fans through its **Composite Fan Technology product line**. Designed for demanding air-handling applications, these fans combine corrosion resistance with rugged construction, ease of maintenance, and efficient operation.

FRP fans have a proven history of performance in corrosive environments, including chemical processing facilities and wastewater treatment plants. VPC also brings extensive fiberglass duct manufacturing experience through its **Primary Plastics division**, further strengthening our expertise in corrosion-resistant air-handling systems.

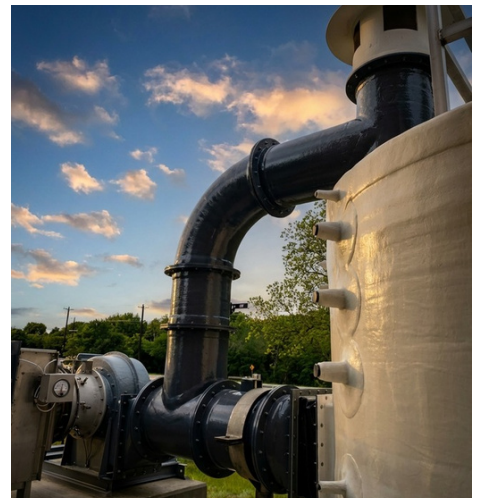
MORE THAN 75 YEARS OF FIBERGLASS FAN MANUFACTURING EXPERIENCE



QUALITY



EFFICIENCY



CUSTOMIZATION

AMCA INTERNATIONAL MEMBER • ISO 9001 COMPLIANT

MARKETS WE SERVE

WATER & WASTEWATER • PULP & PAPER • CHEMICAL • OIL & GAS • POWER



ONE PARTNER. COMPLETE FIBERGLASS SOLUTIONS.

Five reasons manufacturers choose VPC Fiberglass for OEM and custom designed HVAC solutions.

OEM CAPABLE

FULLY CUSTOM

FAST LEAD TIMES

ENGINEERING SUPPORT

ONE-SOURCE MANUFACTURING

WHY PARTNER WITH VPC

OEM-READY. CUSTOM ENGINEERED. BUILT TO YOUR TIMELINE.

01

OEM CAPABILITIES

- Private-label and OEM production built to your drawings and specs
- AMCA Member
- 2 dedicated production facilities in New York State

02

FASTER LEAD TIMES

- All fabrication in-house — wheel, housing, and final assembly
- Expedited custom tooling available

03

IN-HOUSE ENGINEERING & DESIGN SUPPORT

- Experienced engineering team available for design-related questions.
- Engineering analysis available, including complete structural, seismic, foundation, and anchoring design, with engineering licensure in all 50 states.

04

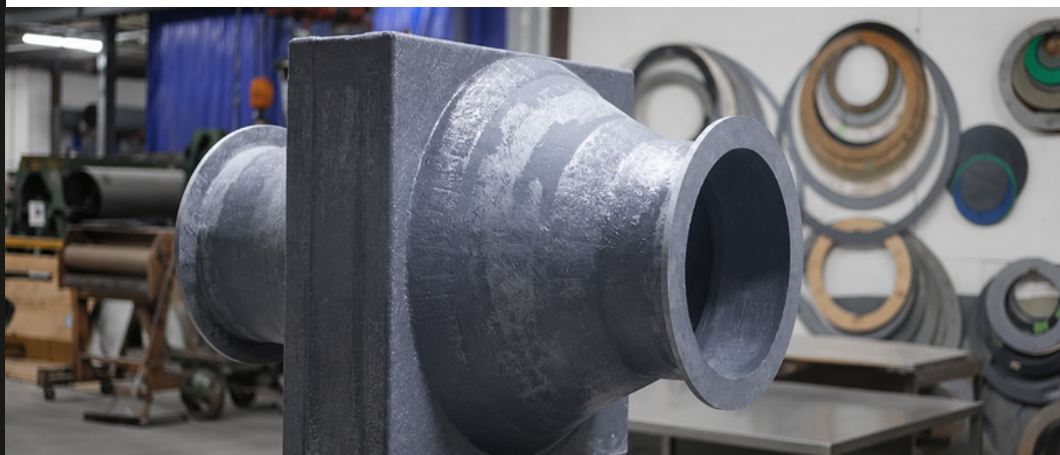
STANDARD HVAC PRODUCT LINES

- FRP Fans: Backward inclined, radial blade, tube axial, inline centrifugal, upblast, wall box, hooded, and roof upblast
- FRP Ductwork – Elbows, Tees, Crosses, Y Branches, and more custom shapes and configurations.
- HVAC Accessories:
 - Louvers and Dampers
 - Control Dampers
 - FRP Stacks
 - FRP Stuffing Box
 - Inlet Box
 - Ridge Vents

05

ONE SOURCE. COMPONENTS ENGINEERED TO WORK TOGETHER.

With fans, ductwork, dampers, louvers, scrubbers, sound enclosures, and accessories manufactured under one roof, VPC ensures components are designed to work together — improving system compatibility and reducing field modifications.



PERFORMANCE GUARANTEED

STANDARD FRP FAN LINE

ENGINEERING & PERFORMANCE CAPABILITIES

Fan Selection & Performance Data

- Performance curves and sound data are available through VPC's fan selection software to support accurate fan selection and system design.

Performance & Sound Testing

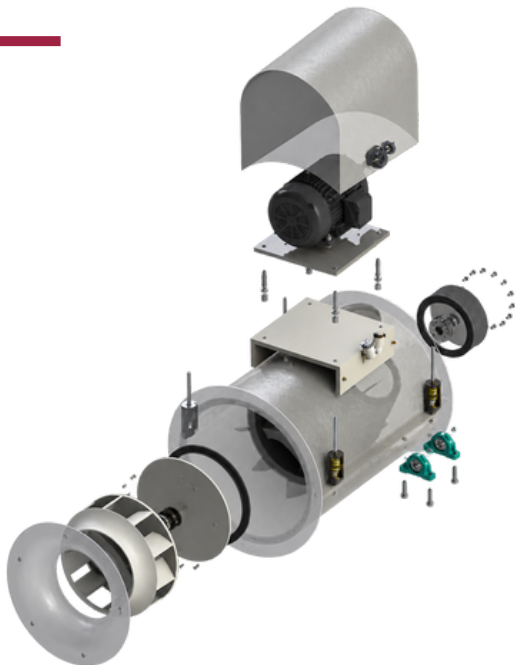
- VPC fans have been tested for air performance and sound by AMCA or through an AMCA-certified laboratory, providing documented performance data for engineering and specification purposes.

3D Modeling & 2D Drawings

- VPC utilizes SolidWorks for fan design and engineering documentation. Both detailed 3D models and 2D drawings are available to assist with equipment layout, coordination, submittals, and project planning.

ASTM D4167-21 Construction

- VPC fans are manufactured to meet or exceed the applicable requirements of ASTM D4167-21, providing a recognized standard for the design and construction of fiberglass fans and blowers intended for corrosive environments.



FIBERGLASS IMPELLER FANS

High Static Pressure

Moves air efficiently through ductwork and high-resistance systems

Corrosion-Resistant

Withstands chemicals, moisture, and harsh environments

Quiet Operation

Lower noise than propeller fans

Energy Efficient

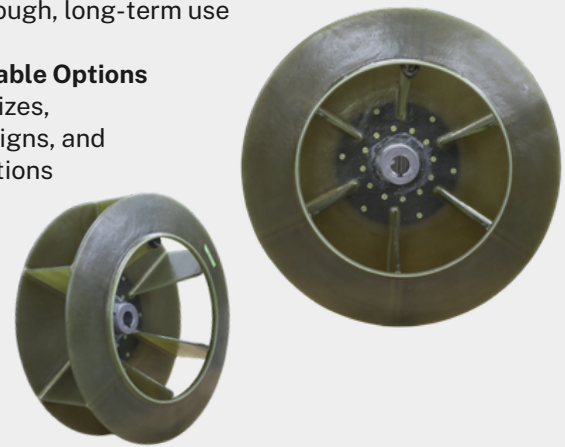
Maintains performance in high-pressure applications

Heavy-Duty Durability

Built for tough, long-term use

Customizable Options

Multiple sizes, wheel designs, and configurations



Purpose-engineered wheel geometry helps provide consistent airflow and dependable performance.



FIBERGLASS PROPELLER FANS

High Airflow Efficiency

High CFM at low static pressure; ideal for moving large air volumes

Corrosion-Resistant

Withstands chemicals, moisture, and harsh environments

Heavy-Duty Durability

Strong, non-metallic construction resists rust and wear

Customizable Options

Multiple sizes, blade designs, and mounting configurations are available

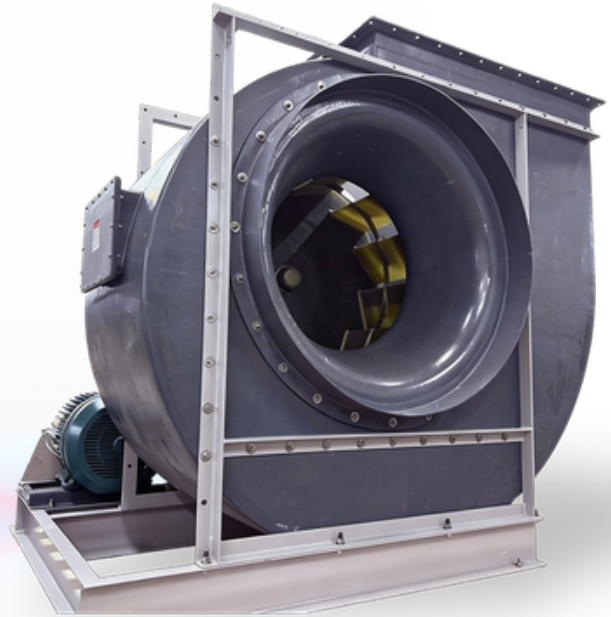


MODEL BIC

FIBERGLASS CENTRIFUGAL FANS

Superior Corrosion Resistance • Made in the USA

IMPELLER TYPE FAN



SIZE

**16 sizes
(12"–66")**

CAPACITY

**Up to
90,000 CFM**

PRESSURE

**Up to
10" SP**

STANDARD FEATURES

- Solid fiberglass wheel and housing constructed of premium grade vinyl ester resin
- All resin is fire retardant with a Class I flame spread of 25 or less per ASTM E-84
- C-glass surface veil on airstream surfaces
- Exterior gel coat contains UV inhibitor
- EPDM double lip shaft seal
- 316 SST shaft and hardware
- V-belt drive with 1.5 S.F. minimum
- Heavy-duty pillow block bearings
- 1" NPT drain at low point
- 304 belt and shaft guards or FRP guard
- TEFC premium efficient motor
- Standard gray finish; custom colors available upon request

OPTIONAL ACCESSORIES

Static grounding of airstream, disconnect switches, channel base, vibration isolators, access door, FRP weather covers, housing split, inlet/outlet guards, exotic shaft material and/or hardware, custom colors, synthetic surface veil, inlet/outlet transitions, and custom formulations available upon request.

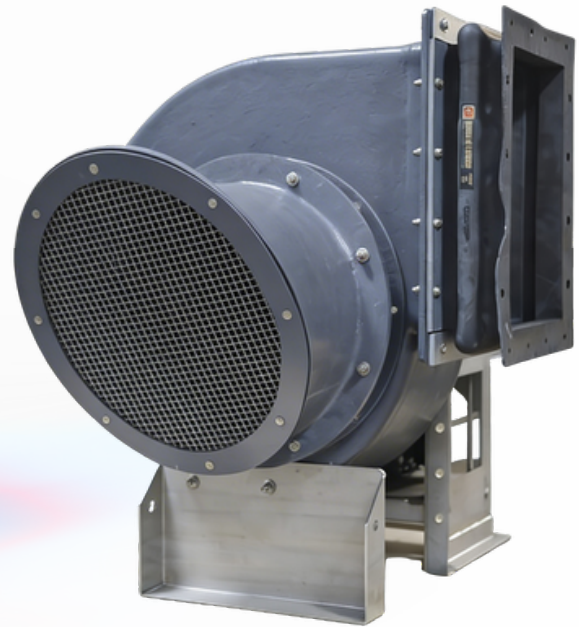


MODEL RBC

FIBERGLASS INDUSTRIAL BLOWER

Superior Corrosion Resistance • Made in the USA

IMPELLER TYPE FAN



SIZE

12 sizes
(9"–45")

CAPACITY

Up to
20,000 CFM

PRESSURE

Up to
20" SP

STANDARD FEATURES

- Solid fiberglass wheel and housing constructed of premium grade vinyl ester resin
- All resin is fire retardant with a Class I flame spread of 25 or less per ASTM E-84
- C-glass surface veil on airstream surfaces
- Exterior gel coat contains UV inhibitor
- EPDM double lip shaft seal
- 316 SST shaft (belt drive only) and hardware
- V-belt drive with 1.5 S.F. minimum
- Heavy-duty bearings
- 1" NPT drain at low point
- 304 belt and shaft guards or FRP guard
- TEFC premium efficient motor
- Standard gray finish; custom colors available upon request

OPTIONAL ACCESSORIES

Static grounding of airstream, disconnect switches, channel base, vibration isolators, access door, FRP weather covers, housing split, inlet/outlet guards, exotic shaft material and/or hardware, custom colors, synthetic surface veil, inlet/outlet transitions, and custom resin formulations available.



Custom Blower for OEM Customer

MODEL ILC

FIBERGLASS INLINE CENTRIFUGAL FAN

Superior Corrosion Resistance • Made in the USA

IMPELLER TYPE FAN



SIZE

**6 sizes
(12"–30")**

CAPACITY

**Up to
20,000 CFM**

PRESSURE

**Up to
9" SP**

STANDARD FEATURES

- Solid fiberglass wheel and housing constructed of premium grade vinyl ester resin
- All resin is fire retardant with a Class I flame spread of 25 or less per ASTM E-84
- C-glass surface veil on airstream surfaces
- Exterior gel coat contains UV inhibitor
- EPDM double lip shaft seal
- 316 SST shaft and hardware
- V-belt drive with 1.5 S.F. minimum
- Flanged inlet and outlet
- Fiberglass weather cover/guard
- Heavy-duty bearings
- Extended grease lines
- Adjustable motor plate for belt tensioning
- TEFC premium efficient motor
- Standard gray finish; custom colors available upon request

OPTIONAL ACCESSORIES

Static grounding of airstream, disconnect switches (factory mounted), inlet/outlet guards, exotic shaft material and/or hardware, custom colors, synthetic surface veil, inlet/outlet transitions, and custom resin formulations available.



MODEL CVC

FIBERGLASS UPBLAST CENTRIFUGAL FAN

Superior Corrosion Resistance • Made in the USA

IMPELLER TYPE FAN



SIZE

**6 sizes
(10"–30")**

CAPACITY

**Up to
19,000 CFM**

PRESSURE

**Up to
3" SP**

STANDARD FEATURES

- Solid fiberglass wheel and housing constructed of premium grade vinyl ester resin
- All resin is fire retardant with a Class I flame spread of 25 or less per ASTM E-84
- C-glass surface veil on airstream surfaces
- Exterior gel coat contains UV inhibitor
- EPDM double lip shaft seal
- 316 SST shaft and hardware
- V-belt drive with 1.5 S.F. minimum
- FRP curb cap or wall sleeve
- Heavy-duty bearings
- TEFC premium efficient motor

OPTIONAL ACCESSORIES

Static grounding of airstream, roof curb, dampers, disconnect switches, inlet/outlet guards, exotic shaft material and/or hardware, custom colors, synthetic surface veil, and custom resin formulations available.



MODEL TA

FIBERGLASS TUBE AXIAL FANS

Superior Corrosion Resistance • Made in the USA

PROPELLER TYPE FAN



SIZE

**13 sizes
(12"–60")**

CAPACITY

**Up to
90,000 CFM**

PRESSURE

**Up to
5" SP**

STANDARD FEATURES

- Solid fiberglass wheel and housing constructed of premium grade vinyl ester resin
- All resin is fire retardant with a Class I flame spread of 25 or less per ASTM E-84
- C-glass surface veil on airstream surfaces
- Exterior gel coat contains UV inhibitor
- EPDM double lip shaft seal
- 316 SST shaft and hardware
- V-belt drive with 1.5 S.F. minimum
- Flanged inlet and outlet
- Fiberglass weather cover/guard
- Heavy-duty bearings
- Extended grease lines
- Adjustable motor plate for belt tensioning
- TEFC premium efficient motor

OPTIONAL ACCESSORIES

Static grounding of airstream, disconnect switches (factory mounted), inlet/outlet guards, exotic shaft material and/or hardware, custom colors, synthetic surface veil, inlet/outlet transitions, and custom resin formulations available upon request.



MODEL TAUB • ROOF EXHAUST FANS

FIBERGLASS TUBE AXIAL UPBLAST FANS

Superior Corrosion Resistance • Made in the USA

PROPELLER TYPE FAN



SIZE

**13 sizes
(12"–60")**

CAPACITY

**Up to
90,000 CFM**

PRESSURE

**Up to
2" SP**

STANDARD FEATURES

- Solid fiberglass wheel and housing constructed of premium grade vinyl ester resin
- All resin is fire retardant with a Class I flame spread of 25 or less per ASTM E-84
- C-glass surface veil on airstream surfaces
- Exterior gel coat contains UV inhibitor
- EPDM double lip shaft seal
- 316 SST shaft and hardware
- V-belt drive with 1.5 S.F. minimum
- Fiberglass stack cap with butterfly dampers and curb cap
- Fiberglass weather cover/guard
- Heavy-duty bearings
- Extended grease lines
- Adjustable motor plate for belt tensioning
- TEFC premium efficient motor

OPTIONAL ACCESSORIES

Static grounding of airstream, disconnect switches (factory mounted), inlet/outlet guards, exotic shaft material and/or hardware, custom colors, synthetic surface veil, inlet/outlet transitions, and custom resin formulations available upon request.



MODEL WB

FIBERGLASS WALL BOX FANS

Superior Corrosion Resistance • Made in the USA

PROPELLER TYPE FAN



SIZE

13 sizes
(12"–60")

CAPACITY

Up to
90,000 CFM

PRESSURE

Up to
2" SP

STANDARD FEATURES

- Solid fiberglass wheel and housing constructed of premium grade vinyl ester resin
- All resin is fire retardant with a Class I flame spread of 25 or less per ASTM E-84
- C-glass surface veil on airstream surfaces
- Exterior gel coat contains UV inhibitor
- Fiberglass motor mount
- Flanged fiberglass wall sleeve
- TEFC premium efficient motor



OPTIONAL ACCESSORIES

Fiberglass damper, static grounding of airstream, disconnect switches, inlet/outlet guards, FRP weather hood, custom colors, synthetic surface veil, and custom resin formulations available.



◀◀ SIZES FOR EVERY APPLICATION

MODEL TAHD • ROOF SUPPLY FANS

FIBERGLASS TUBE AXIAL HOODED FANS

Superior Corrosion Resistance • Made in the USA

PROPELLER TYPE FAN



SIZE

**13 sizes
(12"–60")**

CAPACITY

**Up to
90,000 CFM**

PRESSURE

**Up to
2" SP**

STANDARD FEATURES

- Solid fiberglass wheel and housing constructed of premium grade vinyl ester resin
- All resin is fire retardant with a Class I flame spread of 25 or less per ASTM E-84
- C-glass surface veil on airstream surfaces
- Exterior gel coat contains UV inhibitor
- EPDM double lip shaft seal
- 316 SST shaft and hardware
- V-belt drive with 1.5 S.F. minimum
- Fiberglass hood and curb cap
- Fiberglass weather cover/guard
- Heavy-duty bearings
- Extended grease lines
- Adjustable motor plate for belt tensioning
- TEFC premium efficient motor

OPTIONAL ACCESSORIES

Static grounding of airstream, disconnect switches (factory mounted), inlet/outlet guards, exotic shaft material and/or hardware, custom colors, synthetic surface veil, inlet/outlet transitions, and custom resin formulations available upon request.



PRIMARY PLASTICS DIVISION

FIBERGLASS DUCT

Superior Corrosion Resistance • Made in the USA

USA MADE

SMACNA STANDARD

FILAMENT-WOUND

FLAME RESISTANT



DIAMETER RANGE

2" – 96"
round

STANDARD

**Built to
SMACNA**

TOOLING

**Up to
96" dia.**

STANDARD FEATURES

- All vinyl ester resin – same as fans
- SMACNA Type X (filament wound) construction
- Class 1 flame spread without additives
- C-veil surface on airstream
- Smooth elbows up to 24" diameter
- Gore style above 24"
- 1.5 standard radius others available as needed

CUSTOM FEATURES

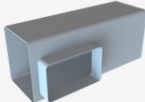
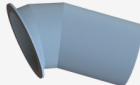
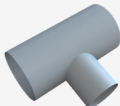
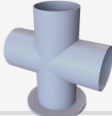
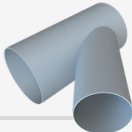
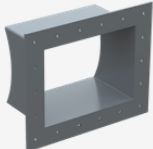
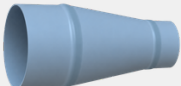
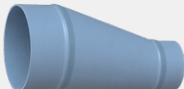
- Resin can be adjusted to best suit the chemical environment
- Synthetic surface veil is available along with different cure systems
- Double wall insulated duct available
- Grounded airstream for explosive environments
- Different material to meet smoke ratings



Round ductwork from 2" to 96" diameter, plus a wide variety of rectangular sizes. Fittings available: tees, crosses, Y branches, elbows, hoods, concentric reducers, and eccentric reducers.

FIBERGLASS DUCT

Superior Corrosion Resistance • Made in the USA

Item Description	3D Render
FRP Round Duct	
FRP Rectangular Duct	
FRP Elbow	
FRP Tee Duct	
FRP Cross	
FRP Y Branch	
FRP Tap	
FRP Concentric Reducer	
FRP Eccentric Reducer	
FRP Double Wall Duct	

PRIMARY PLASTICS DIVISION

DUCT SUPPORTS

Superior Corrosion Resistance • Made in the USA

SUPPORTS DESIGNED SPECIFICALLY FOR YOUR DUCT CONFIGURATION

VPC duct supports are custom-designed to match your duct configuration, with complete structural and anchoring calculations provided.

STANDARD FEATURES

- Stainless steel, aluminum or FRP construction
- Corrosion and weather resistant, a natural pairing with FRP duct and fan systems
- Sized to duct, span, and mounting condition
- Bolted or welded configurations available
- Custom finishes and coatings available upon request

AVAILABLE CONFIGURATIONS

- Trapeze hangers
- Saddle supports
- Riser clamps
- Wall brackets
- Guide supports for expansion/contraction points
- Custom configurations



FIBERGLASS HVAC ACCESSORIES



LOUVERS

Fixed-blade FRP louvers for weather protection and airflow intake or exhaust on duct and wall openings.

DAMPERS

Backdraft or actuated dampers for HVAC control within duct or wall systems.

COMBINATION

Combined louver-and-damper assembly — airflow control and weather protection in a single unit.

CONTROL DAMPER

Actuator-driven or manual damper for open/close or modulating airflow control.

NO LOSS STACK

Vertical discharge stack designed to minimize pressure loss at the fan or duct outlet.

RAIN CAP STACK

Weatherproof stack cap that discharges air while keeping rain and debris out of the system.

FRP STUFFING BOX SEALS

Shaft seal assembly that isolates the drive area from the corrosive airstream.

INLET BOX

Transition fitting that directs airflow into the fan or duct inlet at the correct angle.

RIDGE VENTS

Low-profile roof-ridge ventilator for continuous natural ventilation.

SLIDE GATE

Fiberglass slide gates provide reliable flow control with corrosion-resistant FRP construction designed for long-term performance in water and wastewater applications.

FRP AIRFLOW CONTROL

FIBERGLASS LOUVERS AND DAMPERS

Superior Corrosion Resistance • Made in the USA



FRAME

**6" heavy-duty
C-Channel**

TEMP LIMIT

200°F

HARDWARE

**316
stainless steel**

STANDARD FEATURES

- All FRP construction
- All resin is fire retardant, Class I flame spread of 25 or less
- C-glass surface veil on airstream; all exterior surfaces contain UV inhibitor
- Blades spaced 6" center-to-center
- Screen: 1/2" polyethylene mesh, FRP insect screen, or stainless-steel screen
- Manual or actuator available (damper only)
- Mounting: angle mount or flange mount available

OPTIONAL ACCESSORIES

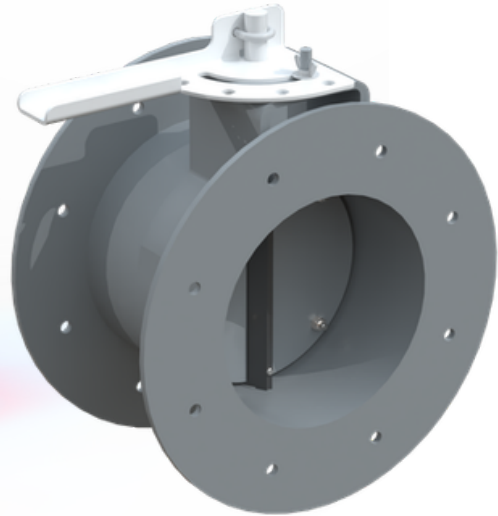
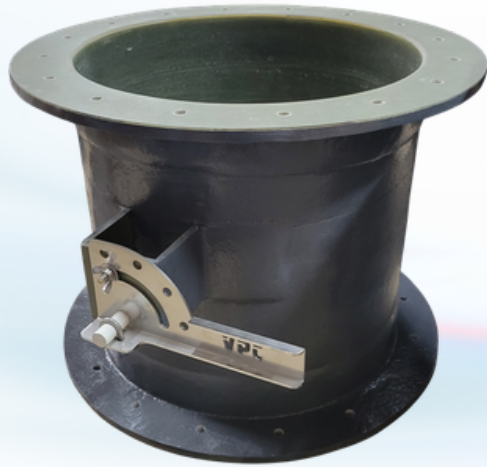
Available in standard and custom sizes — Minimum 12"W × 12"H; maximum single section 72"W × 72"H. Standard finish is gray; additional colors available upon request.



RELIABLE AIRFLOW CONTROL

CONTROL DAMPERS

Superior Corrosion Resistance • Made in the USA



TEMP LIMIT
200°F

HARDWARE
316
stainless steel

STANDARD CONSTRUCTION & MATERIAL FEATURES

- Filament-wound FRP construction
- Vipel K022 vinyl ester resin
- Class 1 flame spread rating
- Resin-rich interior laminate corrosion barrier
- UV-resistant gelcoat exterior
- C-veil surface veil plus 2 layers of 1.5 oz mat on the airstream side
- Standard gray exterior finish

CONTROL DAMPER

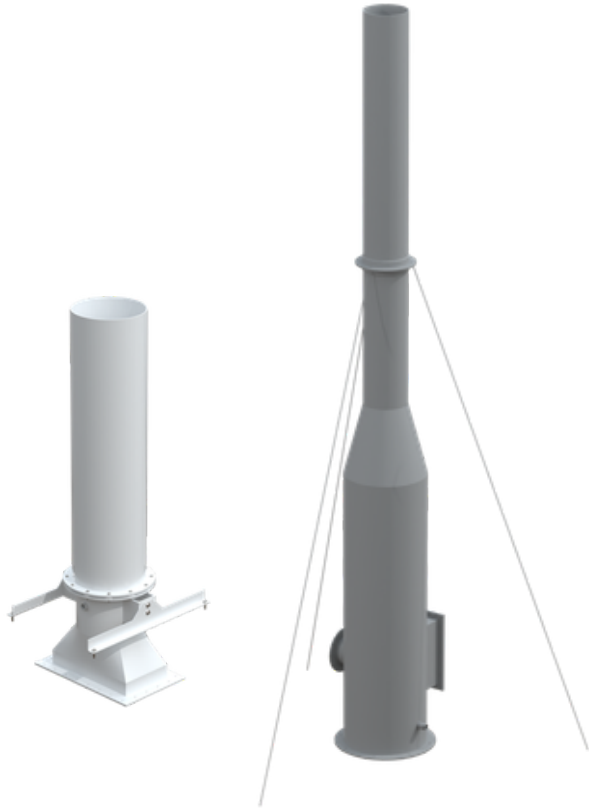
- 316 stainless steel handle
- 316 stainless steel hardware
- 3/4" pultruded FRP rod (damper shaft)
- 1/16" EPDM gasket seal
- Bolted flange connection — 12 bolt holes, 20" OD flange



BUILT FOR CORROSIVE EXHAUST

FIBERGLASS STACKS

Superior Corrosion Resistance • Made in the USA



As part of a complete fiberglass air-handling system, VPC exhaust stacks can be engineered to integrate with the facility's ductwork, fans, and other components — helping create a more cohesive system from a single fiberglass manufacturer.

TYPES

- No Loss Stack
- Rain Cap Stack
- Butterfly Damper
- Exhaust Stack

STANDARD FEATURES

- Fiberglass-Reinforced Plastic (FRP) Construction
- Filament-Wound Construction
- Vinyl Ester Fire-Retardant Resin
- Class 1 Flame Spread per ASTM E84
- Standard Corrosion Barrier
- UV-Resistant Exterior Gel Coat
- 3/16" Minimum Laminate Thickness
- Non-Insulated Construction
- Structural and anchoring calculations provided



SOUND DAMPENING

FIBERGLASS SOUND ENCLOSURES



STANDARD FEATURES

- Corrosion-Resistant FRP Construction
- 2" Foam Sound Insulation
- UV-Resistant Interior & Exterior Gel Coat
- 316 Stainless Steel Hardware
- Front & Rear Equipment Access
- Padlockable Access Doors
- Integrated Lifting Eyes
- Air Filter & Ventilation Provisions
- Gasketed Mounting Flange
- Integrated Duct Connection

Control Noise. Protect Performance.

VPC sound enclosures offer several significant benefits when protecting industrial fans and mitigating the noise generated by their operation.



Temperature & Chemical Resistance



Completely Customizable Design



Effective Noise Reduction
Average 21 dB(A) reduction; additional attenuation available.



Compliance with Regulations



Durability and Weather-Resistance



Improved Workplace Environment



**Sound Dampening in
the Most Corrosive
Environments.**

OEM SCRUBBER MANUFACTURING

FRP SCRUBBERS

Superior Corrosion Resistance • Made in the USA



Custom Vessel Sizing

Scrubber vessels can be manufactured in a range of sizes based on airflow, system requirements and application-specific operating conditions.

Corrosion-Resistant FRP

Fiberglass construction provides long-term resistance to aggressive chemical environments where conventional materials may deteriorate.

Application-Specific Resin Systems

Resin systems and corrosion barriers can be selected based on the chemical environment to provide additional protection where it is needed most.

Integrated System Components

Depending on application requirements, a complete system can incorporate:

- Exhaust Stacks
- Duct
- Rain Caps
- Mist Eliminators
- Sample Ports
- Pressure Taps
- Drain Connections
- Sound Enclosures
- Fans

This single-source approach helps ensure components are properly integrated while simplifying coordination throughout the project.



EXPERIENCE YOU CAN COUNT ON

VPC's experienced sales and engineering teams provide responsive support from initial design through installation and project completion, helping answer questions, coordinate requirements, and keep projects moving every step of the way.



CONTACT US FOR A CUSTOM QUOTE TODAY

info@vpcfberglass.com • 585-735-9668

MARKETS WE SERVE

- Water & Wastewater
- Pulp & Paper
- Chemical
- Oil & Gas
- Power

DESIGN & SUPPORT SERVICES

Our engineering team offers design support to ensure your HVAC system and components meet the specific requirements of your application.

VIRTUAL POLYMER COMPOUNDS | VPC FIBERGLASS

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