



**The Industrial Choice.**



**Catalog G-99 January 2017**

**Full Line Catalog**  
**Air Moving Equipment**



**AEROVENT**

**WHO WE ARE**



**High Quality Standard Products & Fully Customized Fan Solutions**

As a leading designer and manufacturer of high quality industrial air moving equipment, Aerovent sets the industry standard. Our broad range of technologies and expertise allow us to provide the most innovative and efficient air moving and ventilation products on the market. Since 1932, we have been supplying fans to industries covering most Fortune 500 companies, as well as small and medium sized companies that demand high quality products with a wide range of features. We have completed thousands of successful installations worldwide and have a proven track record for tackling the most technically complex and unique applications.

Aerovent has extensive industry experience and years of active research, offering customers flexibility in fan design and construction along with superior service and state-of-the-art technology. With an unmatched variety of axial impellers and centrifugal fan wheels, every fan is built to your specific needs. This comprehensive selection of products and materials makes Aerovent the ideal choice for a diverse range of industry applications, including:

- > **Pulp & Paper**
- > **Automotive**
- > **Foundry**
- > **Pharmaceutical**
- > **Mining**
- > **Paint Finishing Systems**
- > **Power Generation**
- > **Hazardous Locations (UL or ATEX)**
- > **Agricultural**
- > **Snow Making**
- > **Marine**
- > **Water Treatment**

With the engineering and manufacturing capabilities to accommodate virtually every conceivable application, Aerovent has the knowledge and expertise to meet any requirement. Our commitment to quality, a dedicated and highly skilled work force and cutting-edge technologies allow us to offer unmatched manufacturing efficiencies. Whether it's a fan for the power generation, mining or marine industry, it's guaranteed to be highly engineered, durable and rugged. Through eight decades, the Aerovent line has established itself as the symbol of quality air handling equipment in every industry.







**ENGINEERING**

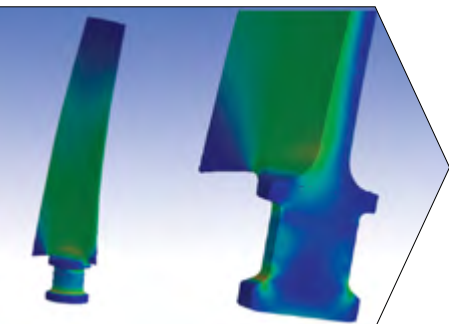
**EXPERTISE**

### › **LEADING EDGE ENGINEERING**

Aerovent's engineering and application expertise is one of the many aspects that sets us apart from all the others. Our engineering group has earned a strong reputation for quickly responding to the needs of our customers. This often involves evaluating our customer's existing fan technology and, in many cases, requires us to redesign and prototype a fully-customized fan solution. That is why our customers repeatedly turn to us time and time again for their specific air moving needs. Simply put, give us a problem, we'll give you a solution.

When you choose Aerovent as your fan manufacturer, you can rest assured that our engineers are using the latest design technology and testing methods, including:

- ☑ Finite Element Analysis (FEA)
- ☑ Fracture Mechanics Calculations
- ☑ Fatigue Analysis - Low & High Cycle
- ☑ Rotor Dynamics Calculations, Forced Response & Sensitivity
- ☑ Rotor Natural Frequencies & Model Shape Determination
- ☑ Foundation Stiffness Requirement Calculations
- ☑ 3D Solid Modeling
- ☑ Vibration Analysis & FFT Spectrum Analysis
- ☑ Aerodynamic Design & Analysis
- ☑ Computational Fluid Dynamics




**Finite Element Analysis**



**3D Modeling**







**HIGH QUALITY**

**MANUFACTURING**

### **> UNMATCHED QUALITY**

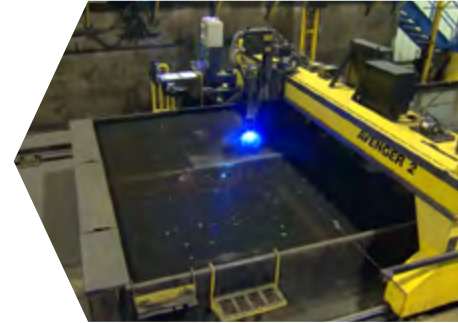
Our experienced team combines a unique skill set and craftsmanship to build the best fans possible. By utilizing the highest quality materials and the most advanced equipment and manufacturing techniques, our product quality is unsurpassed in the air moving industry. We operate eight manufacturing facilities across the U.S. and strive for the highest quality at every step of the manufacturing process – fabrication, welding, machining, painting, assembly, testing and crating. We offer a wide choice of construction materials and accessories for specialty applications including composite, stainless steel, aluminum, hot-dip galvanized steel, abrasion and spark resistant alloys, along with numerous protective coatings.

Prior to manufacturing, all of our product designs are tested and validated in our in-house AMCA registered test laboratory. We conduct numerous types of tests for quality assurance, product certification and safety to ensure that our fans and air handling units meet or exceed our own stringent standards.

### **> QUICK SHIP PROGRAM**

Aerovent stocks a large number of products for quick shipment so your tight project deadlines can be met and downtime on replacement work can be held to a minimum. Many stock products are ready to ship within 48 hours from our distribution center in South Dakota, and many other products are available in Quick Ship times of 5 and 10 days.

- Complete testing of all units prior to shipment to verify operation and ensure quality
- Many unit options and accessories in the Aerovent Quick Ship Program provide wide flexibility
- AMCA licensing of most units
- UL and/or CSA listing on most stock units to ensure code compliance



**Plasma Cutter**



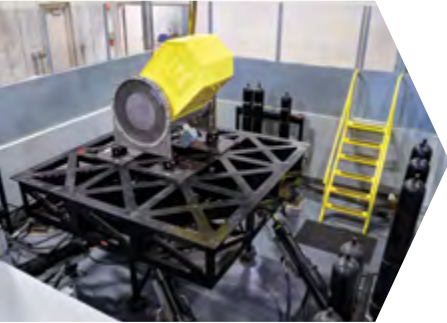
**Cast Solid Impellers**



**Powder Coat Paint System**

# TESTING SERVICES

# IN-HOUSE



**Seismic testing for fans up to 10,000 lbs**



**AMCA 210 Air Performance Testing**



**AMCA Accredited Reverberant Sound Room**

## › STATE-OF-THE-ART TEST LAB

With one of the most sophisticated research and development testing laboratories in the industry, only Aerovent has the collective experience and knowledge needed to tackle the most technically complex testing requirements for the most demanding environments.

The scope of Aerovent's testing capabilities covers a wide spectrum of in-house and onsite testing services. With this level of technology, we continue to provide our customers with proven solutions to their particular air movement needs while ensuring that they receive the highest quality product for their exact requirements and structural needs. This includes the evaluation of existing systems to optimize performance and reduce power consumption.

- ✓ AMCA 204 Balance & Vibration Testing
- ✓ AMCA 210 Performance Testing
- ✓ AMCA 250 Jet Fan Thrust Testing
- ✓ AMCA 260 Induced Flow Testing
- ✓ AMCA 300 Sound Testing
- ✓ UL 705 Safety Testing
- ✓ Seismic Testing per ICC-ES AC156
- ✓ High Temperature/Survivability Testing
- ✓ Mechanical Run Testing
- ✓ Narrow Band Sound & Vibration Testing
- ✓ Impact (Bump) & Overspeed Testing
- ✓ Strain Gauge Testing & Analysis
- ✓ Modal Analysis Testing
- ✓ Vibration Analysis & FFT Spectrum Analysis
- ✓ Scaled Model Testing
- ✓ Custom/OEM Product Designs





### **> START-UP SERVICES**

Having the peace of mind that your fan is installed and operating properly prior to start-up is crucial. Aerovent can offer a wide range of start-up services and precision checks, including inlet and wheel operational clearances, torque verification, shaft alignment, balance and vibration testing. As part of our standard start-up services, Aerovent field personnel will conduct a variety of inspection checks to ensure the fan is ready for start-up — all the way from the foundation bolts to the lubrication of the fan.

- Fan Assembly Inspection
- Vibration Checks
- Coupling & Sheave Laser Alignment
- Installation Assistance

### **> TURNKEY SERVICES**

Keeping existing fans in service as systems change to suit environmental regulations, process enhancements, and energy consumption is an extremely important aspect of our business. We are proficient at applying our engineering experience to make the necessary modifications to existing equipment and can provide complete turnkey solutions for rebuilding and repairing fans in the field.

- Installation & Commissioning
- Motor Alignment
- Coupling Alignment
- Preventive Maintenance
- Fan Balancing
- Field Performance Testing
- Fan Retrofits

**Fan Assembly Inspection****Installation & Commissioning****Coupling Alignment**



# WALL PROPELLER FANS



**Warehouse Exhaust**



**Mine Ventilation**



**Generator Room Exhaust**

## WALL PROPELLER FANS

Wall Propeller Fans are designed for cost effective, general ventilation. They are available in direct and belt driven models, with aluminum or steel impellers. Fixed or adjustable pitch models are offered to meet a variety of application requirements. Wall Propeller Fans are available in ring or panel construction as well as standard or reverse flow.

## IMPELLER TYPES



**Fixed Pitch**



**Adjustable Pitch**



**Steel**



**Aluminum**



**Stainless Steel**

## TYPICAL INDUSTRIES/APPLICATIONS

Agriculture, Air Pollution Control, Arenas, Automotive, Boilers, Brick, Car Wash, Commercial Plan & Spec, Composting, Ethanol, Food & Beverage, Foundry, General Manufacturing, Glass, Heat Exchangers, HVAC, Industrial Processes, Institutional & Hospitality, Metal & Minerals, Mining, OEM, Petrochemical, Power Generation, Pulp & Paper, Raw Product Storage, Recycling, Textile and Water Treatment

## COMMON ACCESSORIES

Mounting Adapters, OSHA Motor & Impeller Side Guards, Filter Boxes, Weatherhoods, Backdraft Dampers, Extended Lube Lines, Special Coatings, Disconnect Switches, Single Point Wiring

## OPTIONAL CONSTRUCTION



**Marine Duty**



**Composite**  
(see composite section)



**Special Materials**

## CERTIFICATIONS

AMCA Sound/Air and FEG, UL 705 Listed for Electrical



## DDP

### Panel Fans, Direct Drive

- > 9 to 72 inches (230 mm ~ 1,830 mm) impeller diameters
- > Airflow to 98,000 CFM (166,500 m<sup>3</sup>/hour)
- > Static pressure to 1.5 inches w.g. (370 Pa)
- > AMCA licensed for Air and Fan Efficiency Grade

Catalog: 168



AL

Standard Impellers



Optional Construction



## BP

### Panel Fans, Belt Driven

- > 24 to 72 inches (610 mm ~ 1,830 mm) impeller diameters
- > Airflow to 89,100 CFM (151,400 m<sup>3</sup>/hour)
- > Static pressure to 1.5 inches w.g. (370 Pa)
- > AMCA licensed for Air and Fan Efficiency Grade

Catalog: 168



AL

Standard Impellers



Optional Construction



## DDR

### Ring Fans, Direct Drive

- > 9 to 96 inches (230 mm ~ 2,440 mm) impeller diameters
- > Airflow to 136,000 CFM (231,100 m<sup>3</sup>/hour)
- > Static pressure to 1.5 inches w.g. (370 Pa)
- > AMCA licensed for Air and Fan Efficiency Grade

Catalog: 168



AL

Standard Impellers



Optional Construction



## BR

### Ring Fans, Belt Driven

- > 24 to 96 inches (610 mm ~ 2,440 mm) impeller diameters
- > Airflow to 131,100 CFM (222,700 m<sup>3</sup>/hour)
- > Static pressure to 1.5 inches w.g. (370 Pa)
- > AMCA licensed for Air and Fan Efficiency Grade

Catalog: 168



AL

Standard Impellers



Optional Construction





# AXIAL FANS



## AXIAL FANS

Tubeaxial Fans are designed to handle a wide range of requirements from general ventilation to process air supply. The mounting flexibility makes it an ideal choice for many industrial and commercial applications. Units are available as direct or belt driven, with steel or aluminum wheels that are fixed or adjustable blade pitch.

Vaneaxial Fans are designed for applications where large volumes of air are required at moderate to high pressures. Direct and belt driven models, with fixed and adjustable blade wheels, are available. The tubular design and high wheel efficiency provides maximum performance while using minimal space.



**Engine Room Supply Fan  
(Marine)**



**Steel Slag Cooling**



**Paper Machine Exhaust**

## IMPELLER TYPES & MATERIALS



**Fixed Pitch**



**Adjustable Pitch**



**Steel**



**Aluminum**



**Stainless Steel**

## TYPICAL INDUSTRIES/APPLICATIONS

Aerospace, Agriculture, Air Pollution Control, Automotive, Boilers, Brick, Car Wash, Chemical, Clean Rooms, Composting, Food & Beverage, Foundry, General Manufacturing, Glass, Green/LEED, HVAC, Industrial Processes, Institutional & Hospitality, Marine, Metal & Minerals, Microchip, Mining, Nuclear, OEM, Petrochemical, Pharmaceutical, Paint Booth Exhaust, Pulp & Paper, Recycling, Textile, Transportation, Water Treatment, Wind Tunnels, Gas Turbine Exhaust, Generator Ventilation

## COMMON ACCESSORIES

Access Doors, Inlet/Outlet Screens and Guards, Inlet/Outlet Companion Flanges, Belt Guards, Motor Covers, Inlet Bells, Inlet/Outlet Cones, Special Coatings, Disconnect Switches, Horizontal Supports, Vertical Supports, Shaft Seals, Vibration Isolation, Hoods, Stack Caps, and Curb Bases, Externally Mounted Conduit Boxes and Extended Lube Lines

## OPTIONAL CONSTRUCTION



**Composite**  
(see composite section)



**High Temp**



**Marine Duty**



**Special Materials**



**Easy Access**



**Spark Resistant or ATEX**



**High Moisture**

## CERTIFICATIONS

AMCA Sound/Air and FEG, UL 705 Listed for Electrical, UL Listed for Smoke Control Systems



## TA

### Tubeaxial Fan, Direct Drive

- > 12 to 96 inches (305 mm ~ 2,440 mm) impeller diameters
- > Airflow to 132,500 CFM (225,100 m<sup>3</sup>/hour)
- > Static pressure to 1.5 inches w.g. (370 Pa)
- > AMCA licensed for Air and Fan Efficiency Grade

Catalog: 157



AL

Standard Impellers



Optional Construction



## TABD

### Tubeaxial Fan, Belt Driven

- > 12 to 96 inches (305 mm ~ 2,440 mm) impeller diameters
- > Airflow to 131,900 CFM (224,100 m<sup>3</sup>/hour)
- > Static pressure to 1.5 inches w.g. (370 Pa)
- > AMCA licensed for Air and Fan Efficiency Grade

Catalog: 157

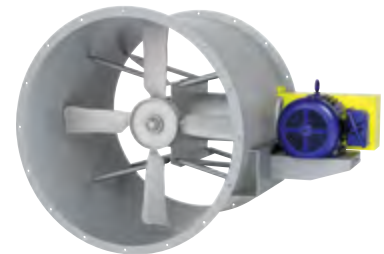


AL

Standard Impellers



Optional Construction



## PTA / PTABD

### Type P Tubeaxial Fan, Direct Drive & Belt Driven

- > 12 to 60 inches (305 mm ~ 1,525 mm) impeller diameters
- > Airflow to 96,000 CFM (163,100 m<sup>3</sup>/hour)
- > Static pressure to 5 inches w.g. (1,240 Pa)

Catalog: 414



AL

Standard Impellers



Optional Construction



## TSBD

### Type S Tubeaxial Fan, Belt Driven (Steel Impeller)

- > 12 to 54 inches (305 mm ~ 1,375 mm) impeller diameters
- > Airflow to 80,000 CFM (135,900 m<sup>3</sup>/hour)
- > Static pressure to 4 inches w.g. (1,000 Pa)

Catalog: 482



STL

SS

Standard Impellers



Optional Construction



## BTABD

### Paint Booth Exhaust Tubeaxial Fan, Belt Driven

- > 12 to 42 inches (305 mm ~ 1,070 mm) impeller diameters
- > Airflow to 36,100 CFM (61,300 m<sup>3</sup>/hour)
- > Static pressure to 1.25 inches w.g. (310 Pa)
- > Short casing and self lubricating type bearings

Catalog: 159



AL

Standard Impellers



Optional Construction



# VANEAXIAL FANS



AL

Standard Impellers



Optional Construction

## VJ

### Type J Vaneaxial Fan, Direct Drive

- > 18 to 84 inches (460 mm ~ 2,135 mm) impeller diameters
- > Airflow to 233,000 CFM (395,900 m<sup>3</sup>/hour)
- > Static pressure to 6 inches w.g. (1,490 Pa)
- > AMCA licensed for Sound, Air and Fan Efficiency Grade

Catalog: 476



AL

Standard Impellers



Optional Construction

## VJBD

### Type J Vaneaxial Fan, Belt Driven

- > 18 to 84 inches (460 mm ~ 2,135 mm) impeller diameters
- > Airflow to 233,000 CFM (395,900 m<sup>3</sup>/hour)
- > Static pressure to 6 inches w.g. (1,490 Pa)
- > AMCA licensed for Sound, Air and Fan Efficiency Grade

Catalog: 476



AL

Standard Impellers



Optional Construction

## VP

### Type P Vaneaxial Fan, Direct Drive

- > 12 to 60 inches (305 mm ~ 1,525 mm) impeller diameters
- > Airflow to 103,000 CFM (175,000 m<sup>3</sup>/hour)
- > Static pressure to 5.5 inches w.g. (1,367 Pa)
- > AMCA licensed for Air and Fan Efficiency Grade

Catalog: 414



AL

Standard Impellers



Optional Construction

## VPBD

### Type P Vaneaxial Fan, Belt Driven

- > 12 to 60 inches (305 mm ~ 1,525 mm) impeller diameters
- > Airflow to 100,000 CFM (169,900 m<sup>3</sup>/hour)
- > Static pressure to 7 inches w.g. (1,740 Pa)
- > AMCA licensed for Air and Fan Efficiency Grade

Catalog: 414



STL SS

Standard Impellers



Optional Construction

## VSBD

### Type S Vaneaxial Fan, Belt Driven (Steel Impeller)

- > 12 to 54 inches (305 mm ~ 1,375 mm) impeller diameters
- > Airflow to 80,000 CFM (135,900 m<sup>3</sup>/hour)
- > Static pressure to 4 inches w.g. (990 Pa)

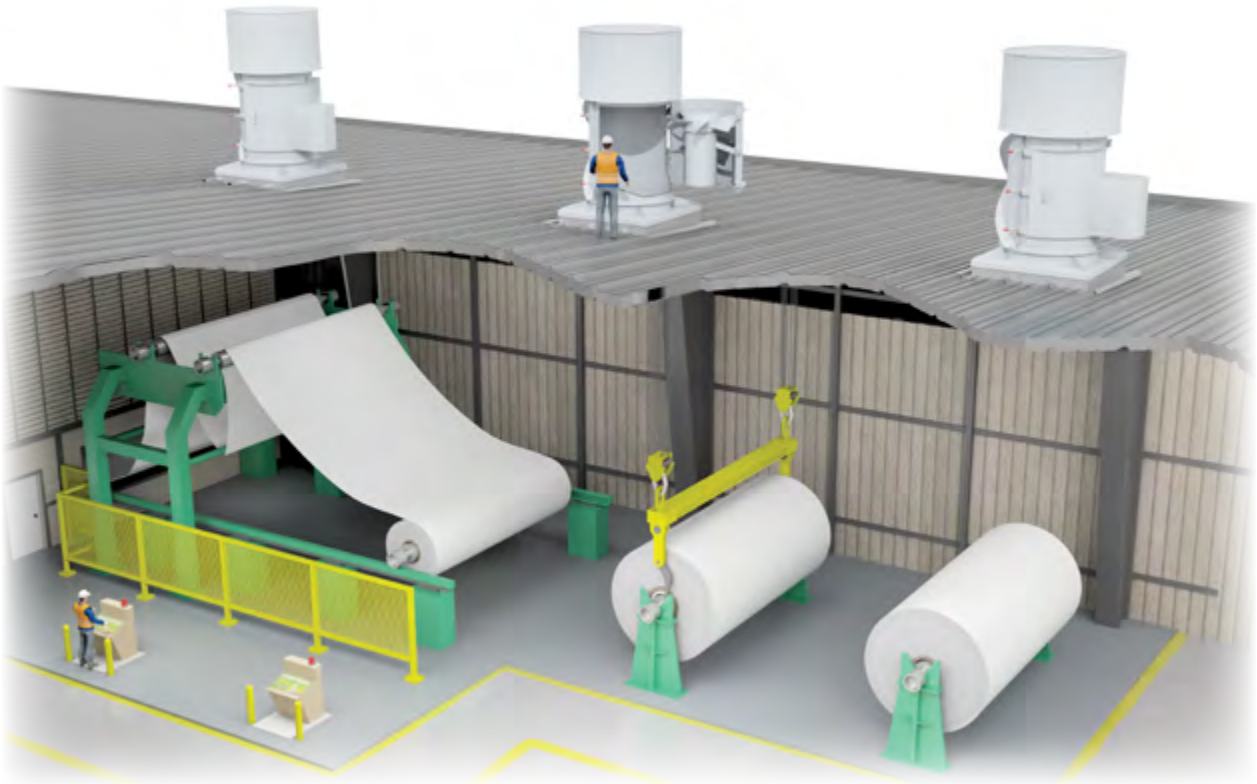
Catalog: 482





## Axial Swingout & Clamshell Construction

 Easy access for frequent cleaning



**Full Swingout**



**Single & Double Door Clamshell**

### Axial Swingout Fans

Axial swingout fans are designed for frequent cleaning and allow easy access when servicing the unit or when conducting routine maintenance.

- > **Full Swingout Fans:** Impeller shaft and bearings are mounted to the door providing easy access to all components outside of the airstream.
- > **Single & Double Door Clamshell:** Large hinged access doors provide easy access to the fan components. Impeller shaft and bearings are mounted to the housing and stay in the airstream when the doors are opened.
- > **Common Applications:** Paint Finishing Systems, Pulp/ Paper Production, Heat Recovery Steam Generators, Potash Production, Slurry Prep Facilities, Steel & Aluminum Foundries



# ROOF VENTILATORS



## ROOF VENTILATORS

Roof Ventilators provide cost effective, general purpose ventilation of commercial buildings as well as a large variety of industrial applications. Belt and direct drive models are available with adjustable pitch cast aluminum impellers or fixed pitch impellers constructed of fabricated steel or cast aluminum to meet specific application requirements.

## IMPELLER TYPES & MATERIALS



**Fixed Pitch**



**Adjustable Pitch**



**Steel**



**Aluminum**



**Stainless Steel**



**Warehouse Exhaust**

## TYPICAL INDUSTRIES/APPLICATIONS

Agriculture, Air Pollution Control, Automotive, Boilers, Brick, Car Wash, Commercial Plan & Spec, Composting, Food & Beverage, Foundry, General Manufacturing, Glass, Green/LEED, HVAC, Institutional & Hospitality, Metal & Minerals, Microchip, Mining, Nuclear, OEM, Petrochemical, Pharmaceutical, Power Generation, Pulp & Paper, Recycling, Textile, Transportation



**Fume Exhaust**

## COMMON ACCESSORIES

Access Doors, Backdraft Dampers, Inlet Guards, Birdscreens, Two Groove Drives, Fusible Links, Motor Covers, Externally Mounted Conduit Boxes, Curb Bases, Hinged Curb Bases, Extended Lube Lines, Magnetic Damper Latches, Roof Curbs, Disconnect Switches, Single Point Wiring, Special Coatings, Motorized Stack Caps, Weather Proof Silencers and Stack Caps

## OPTIONAL CONSTRUCTION



**Composite**  
(see composite section)



**High Temp**



**Special Materials**



**Easy Access**



**Spark Resistant or ATEX**



**High Moisture**



**General Ventilation**

## CERTIFICATIONS

UL 705 Listed for Electrical, UL Listed for Smoke Control Systems, UL 762 Listed for Grease-Laden Air, OSHPD Seismic Certification per OSP-0395-10



## D53

### Model 53 Roof Ventilator, Direct Drive

- > 12 to 72 inches (305 mm ~ 1,830 mm) impeller diameters
- > Airflow to 85,500 CFM (145,300 m<sup>3</sup>/hour)
- > Static pressure to 0.75 inches w.g. (190 Pa)
- > AMCA licensed for Air and Fan Efficiency Grade

Catalog: 625

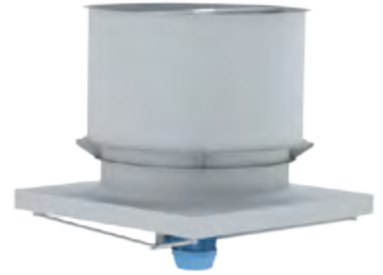


AL

Standard Impellers



Optional Construction



## B53

### Model 53 Roof Ventilator, Belt Driven

- > 24 to 72 inches (610 mm ~ 1,830 mm) impeller diameters
- > Airflow to 91,900 CFM (156,100 m<sup>3</sup>/hour)
- > Static pressure to 0.75 inches w.g. (190 Pa)
- > AMCA licensed for Air and Fan Efficiency Grade

Catalog: 625

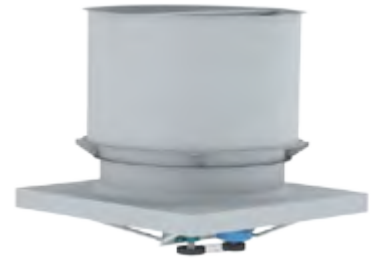


AL

Standard Impellers



Optional Construction



## BD40C

### Roof Ventilator, Belt Driven

- > 12 to 96 inches (305 mm ~ 2,440 mm) impeller diameters
- > Airflow to 123,700 CFM (210,200 m<sup>3</sup>/hour)
- > Static pressure to 0.75 inches w.g. (190 Pa)
- > AMCA licensed for Air and Fan Efficiency Grade

Catalog: 616



AL

Standard Impellers



Optional Construction



## SV40

### Smoke and Heat Removal Ventilator

- > 24 to 60 inches (610 mm ~ 1,525 mm) impeller diameters
- > Airflow to 51,400 CFM (87,300 m<sup>3</sup>/hour)
- > Static pressure to 0.75 inches w.g. (190 Pa)
- > AMCA licensed for Sound, Air and Fan Efficiency Grade

Catalog: 653



STL

Standard Impellers



Optional Construction



## AFE

### Fume Hood Inline Exhaust Fan

- > 10.5 to 54.25 inches (270 mm ~ 1,380 mm) wheel diameters
- > Airflow to 37,300 CFM (63,400 m<sup>3</sup>/hour)
- > Static pressure to 7 inches w.g. (1,740 Pa)
- > UL 705 listed

Catalog: 390



AL

Standard Impellers



Optional Construction



# ROOF VENTILATORS



AL

Standard Impellers



Optional Construction

## HD53

Model 53 Hooded Roof Ventilator, Direct Drive

- > 24 to 60 inches (610 mm ~ 1,525 mm) impeller diameters
- > Airflow to 60,400 CFM (102,600 m<sup>3</sup>/hour)
- > Static pressure to 0.75 inches w.g. (190 Pa)
- > Available in exhaust or supply configurations

Catalog: 625



AL

Standard Impellers



Optional Construction

## HB53

Model 53 Hooded Roof Ventilator, Belt Driven

- > 24 to 60 inches (610 mm ~ 1,525 mm) impeller diameters
- > Airflow to 58,900 CFM (100,100 m<sup>3</sup>/hour)
- > Static pressure to 0.75 inches w.g. (190 Pa)
- > Available in exhaust or supply configurations

Catalog: 625



AL

Standard Impellers



Optional Construction

## TW / TWB / TWBD

Tu-Way Roof Ventilator

- > 24 to 72 inches (610 mm ~ 1,830 mm) impeller diameters
- > Airflow to 96,200 CFM (163,400 m<sup>3</sup>/hour)
- > Static pressure to 0.5 inches w.g. (120 Pa)
- > 100% Reversible: Supply & Exhaust Modes

Catalog: 615



AL

Standard Impellers



Optional Construction

## RRES

Heat Saver/Ventilator, Stack Cap

- > 24 to 60 inches (610 mm ~ 1,525 mm) impeller diameters
- > Airflow to 62,100 CFM (105,500 m<sup>3</sup>/hour)
- > Static pressure to 0.375 inches w.g. (90 Pa)
- > Exhaust & Recirculation Modes

Catalog: 673



AL

Standard Impellers



Optional Construction

## RREH

Three-Way Heat Saver/Ventilator, Hooded

- > 24 to 60 inches (610 mm ~ 1,525 mm) impeller diameters
- > Airflow to 60,700 CFM (103,100 m<sup>3</sup>/hour)
- > Static pressure to 0.375 inches w.g. (90 Pa)
- > Supply, Exhaust, & Recirculation Modes

Catalog: 673

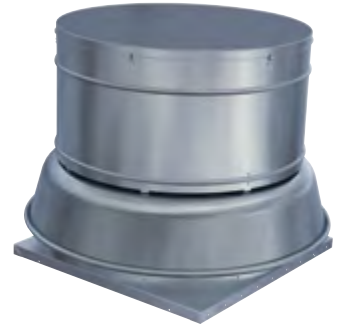


**ACXD / ACX**

Centrifugal Roof Ventilators,  
Direct Drive and Belt Driven

- > 8 to 49.21 inches (205 mm ~ 1,250 mm) wheel diameters
- > Airflow to 28,700 CFM (48,800 m<sup>3</sup>/hour)
- > Static pressure to 3.25 inch w.g. (810 Pa)
- > AMCA licensed for Sound, Air and Fan Efficiency Grade (ACX)
- > AMCA licensed for Sound and Air (ACXD)
- > UL 705 listed

Catalog: 102



Optional Construction

**ATD / ATDR / ATB / ATBR**

Centrifugal Roof Ventilators, Upblast,  
Direct Drive and Belt Driven

- > 8.38 to 49.21 inches (215 mm ~ 1,250 mm) wheel diameters
- > Airflow to 29,100 CFM (49,400 m<sup>3</sup>/hour)
- > Static pressure to 3.25 inches w.g. (810 Pa)
- > AMCA licensed for Sound, Air and Fan Efficiency Grade
- > UL 705 listed (ATD / ATB)
- > UL 762 listed for grease laden air (ATDR / ATBR)

Catalog: 102



Optional Construction

**ATDW / ATDWR / AWX / AWXR**

Centrifugal Wall Ventilators,  
Direct Drive and Belt Driven

- > 8.38 to 31.5 inches (215 mm ~ 800 mm) wheel diameters
- > Airflow to 11,600 CFM (19,700 m<sup>3</sup>/hour)
- > Static pressure to 3.25 inches w.g. (810 Pa)
- > AMCA licensed for Sound, Air and Fan Efficiency Grade
- > UL 705 listed (ATDW / AWX)
- > UL 762 listed for grease laden air (ATDWR / AWXR)
- > OSHPD Seismic Certification per OSP-0395-10

Catalog: 102



Optional Construction





# INLINE CENTRIFUGAL & MIXED FLOW FANS



**General Ventilation**

### INLINE CENTRIFUGAL & MIXED FLOW FANS

Inline Centrifugal and Mixed Flow Fans are designed for general ventilation and industrial applications where large volumes of clean air are required at low to moderate pressures. Inline centrifugal and mixed flow fans provide the performance of a centrifugal fan with the space saving advantages of an axial-type fan. With a variety of designs to choose from, these fans offer the flexibility to meet the performance and application requirements at very high efficiencies.

### WHEEL TYPES

Backward Inclined, Backward Inclined Airfoil, Airfoil Mixed Flow

### TYPICAL INDUSTRIES/APPLICATIONS

General Ventilation (exhaust, filtration, return and supply, air of commercial buildings), Air Pollution Control, Automotive, Chemical, Fertilizer, Food & Beverage, Laboratory Exhaust, Metal & Mineral Processing, and Water & Wastewater Treatment, Data Center Exhaust, General Ventilation, Odor Control, Paint Booth Exhaust

### COMMON ACCESSORIES

Access Doors, Belt Guards, Belt Tubes, Companion Flanges, Disconnect Switches, Inlet/Outlet Screens, Inlet Vanes, Airflow Measurement Systems, Pressure Transducers, Special Coatings, Vibration Isolation, Motor Covers, Horizontal Supports, Vertical Supports, Shaft Seals, Hoods, Stack Caps, Curb Bases, Roof Curbs, Externally Mounted Conduit Boxes and Extended Lube Lines



**Paint Booth Exhaust**

### OPTIONAL CONSTRUCTION



**Composite**  
(see composite section)



**High Temp**



**Special Materials**



**Easy Access**



**Spark Resistant or ATEX**



**Plasma Exhaust**

### CERTIFICATIONS

AMCA Sound/Air and FEG, UL 705 Listed for Electrical, UL 762 Listed for Grease-Laden Air, UL Listed for Smoke Control Systems, OSHPD Seismic Certification per OSP-0271-10



**AMX / AMXR / AMXSH**

Mixed Flow Fans

- > 18.25 to 89 inches (465 mm ~ 2,260 mm) wheel diameters
- > Airflow to 160,000 CFM (271,800 m<sup>3</sup>/hour)
- > Static pressure to 8 inches w.g. (2,000 Pa)
- > AMCA licensed for Sound, Air and Fan Efficiency Grade
- > UL 705 listed (AMX)
- > UL 762 listed for grease laden air (AMXR)
- > UL listed for smoke control systems (AMXSH)
- > OSHPD Seismic Certification per OSP-0271-10

Catalog: 330



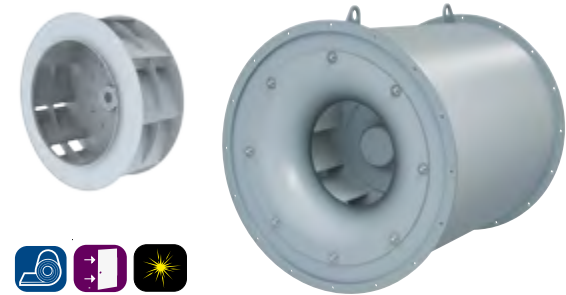
Optional Construction

**CDD**

Centaxial Fan, BIA Wheel, Direct Drive

- > 12.4 to 44.09 inches (315 mm ~ 1,120 mm) wheel diameters
- > Airflow to 50,600 CFM (86,000 m<sup>3</sup>/hour)
- > Static pressure to 7 inches w.g. (1,740 Pa)
- > AMCA licensed for Sound, Air and Fan Efficiency Grade

Catalog: 337



Optional Construction

**CBD**

Centaxial Fan, BIA Wheel, Belt Driven

- > 12.4 to 70.88 inches (315 mm ~1,800 mm) wheel diameters
- > Airflow to 130,600 CFM (221,900 m<sup>3</sup>/hour)
- > Static pressure to 14 inches w.g. (3,480 Pa)
- > AMCA licensed for Sound, Air and Fan Efficiency Grade

Catalog: 337



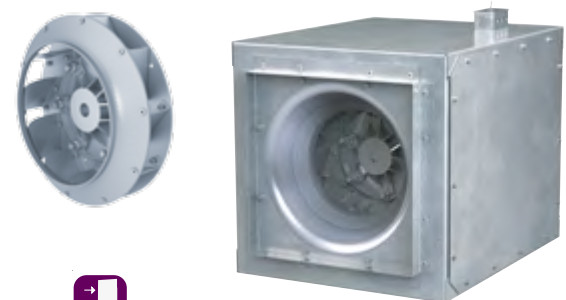
Optional Construction

**SCDD / SCBD**

Square Inline Centrifugal Fans, Direct Drive and Belt Driven

- > 8 to 40 inches (205 mm ~ 1,020 mm) wheel diameters
- > Airflow to 27,400 CFM (46,600 m<sup>3</sup>/hour)
- > Static pressure to 3.5 inches w.g. (870 Pa)
- > AMCA licensed for Sound, Air and Fan Efficiency Grade
- > UL 705 listed

Catalog: 340



Optional Construction



# CENTRIFUGAL FANS & BLOWERS



**Recirculation Fans**



**Dust Collection**



**Process Fans**

## CENTRIFUGAL FANS & BLOWERS

Centrifugal Fans & Blowers are designed for a wide range of air volumes and pressures. With backward inclined, backward curved, backward inclined airfoil, radial and forward curved wheel types, centrifugal fans & blowers offer the flexibility to match the performance and application at the highest efficiency. Most models are available in single-wide or double-wide configurations that allow for even higher volumes of air.

## WHEEL TYPES

Single Thickness Backward Inclined, Backward Curved, Forward Curved, Airfoil, Radial

## TYPICAL INDUSTRIES/APPLICATIONS

General Ventilation, Automotive, Agriculture, Dying Applications, Dust Collection, Air Handling Units, Filtration Systems, Metal & Mineral Processing, Pulp & Paper, Petrochemical, Pharmaceutical, Power, Water & Wastewater Treatment

## COMMON ACCESSORIES

Access Doors, Drains, Flanged Inlet/Outlets, Companion Flanges, Inlet/Outlet Screens, Shaft & Bearing Guards, Belt Guards, Shaft Seals, Lube Lines, Airflow Measurement Systems, Weather Covers, Insulation Pins, Steel Wall or Aluminum Clad Insulated Housings, Inlet Boxes, Inlet & Outlet Dampers, External or Nested Inlet Vanes, Acoustical Jackets, Vibration Isolation and Actuators

## OPTIONAL CONSTRUCTION



**Composite**  
(see composite section)



**High Temp**



**Special Materials**



**Easy Access**



**Spark Resistant or ATEX**



**Nominally Leak Tight**



**Split Housings**

## CERTIFICATIONS

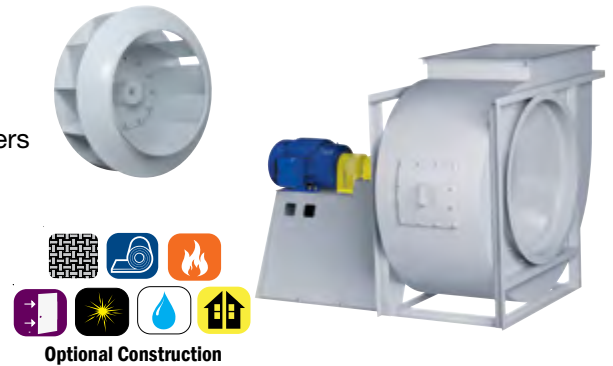
AMCA Sound/Air and FEG, UL 705 Listed for Electrical, OSHPD Seismic Certification per OSP-0195-10, OSHPD Seismic Certification per OSP-0355-10

## CB-SW

Flat-Blade Backward Inclined Centrifugal Fan, SWSI

- > 12.25 to 98.25 inches (315 mm ~ 2,495 mm) wheel diameters
- > Airflow to 277,500 CFM (471,500 m<sup>3</sup>/hour)
- > Static pressure to 20 inches w.g. (4,970 Pa)
- > AMCA licensed for Sound, Air and Fan Efficiency Grade
- > OSHPD Seismic Certification per OSP-0355-10

Catalog: 720

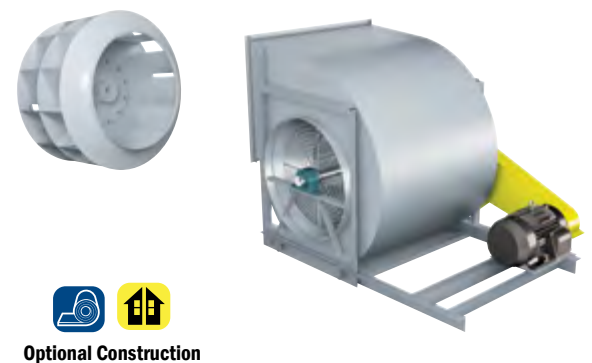


## CB-DW

Flat-Blade Backward Inclined Centrifugal Fan, DWDI

- > 12.25 to 89 inches (315 mm ~ 2,260 mm) wheel diameters
- > Airflow to 344,300 CFM (585,000 m<sup>3</sup>/hour)
- > Static pressure to 14 inches w.g. (3,480 Pa)
- > AMCA licensed for Sound, Air and Fan Efficiency Grade
- > OSHPD Seismic Certification per OSP-0355-10

Catalog: 720



## CAE-SW

Airfoil Centrifugal Fan, SWSI

- > 12.25 to 98.25 inches (315 mm ~ 2,495 mm) wheel diameters
- > Airflow to 233,100 CFM (396,000 m<sup>3</sup>/hour)
- > Static pressure to 20 inches w.g. (4,970 Pa)
- > AMCA licensed for Sound, Air and Fan Efficiency Grade
- > UL 705 listed
- > OSHPD Seismic Certification per OSP-0355-10

Catalog: 725

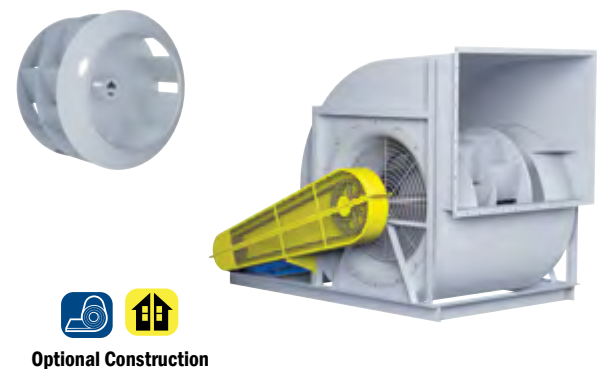


## CAE-DW

Airfoil Centrifugal Fan, DWDI

- > 12.25 to 89 inches (315 mm ~ 2,260 mm) wheel diameters
- > Airflow to 419,500 CFM (712,700 m<sup>3</sup>/hour)
- > Static pressure to 14 inches w.g. (3,480 Pa)
- > AMCA licensed for Sound, Air and Fan Efficiency Grade
- > UL 705 listed
- > OSHPD Seismic Certification per OSP-0355-10

Catalog: 725





# CENTRIFUGAL FANS



Optional Construction

## BAUB

### Airfoil Utility Set

- > 12.25 to 36.5 inches (315 mm ~ 930 mm) wheel diameters
- > Airflow to 32,100 CFM (54,500 m<sup>3</sup>/hour)
- > Static pressure to 8 inches w.g. (2,000 Pa)
- > AMCA licensed for Sound, Air and Fan Efficiency Grade
- > OSHPD Seismic Certification per OSP-0195-10

Catalog: 760



Optional Construction

## BIUB / BIUBR / BIUBSH

### Backward Inclined Utility Sets

- > 10.5 to 60 inches (270 mm ~ 1,525 mm) wheel diameters
- > Airflow to 78,660 CFM (133,600 m<sup>3</sup>/hour)
- > Static pressure to 8 inches w.g. (2,000 Pa)
- > AMCA licensed for Sound, Air and Fan Efficiency Grade
- > UL 705 listed (BIUB)
- > UL 762 listed for grease-laden air (BIUBR)
- > UL listed for smoke control systems (BIUBSH)
- > OSHPD Seismic Certification per OSP-0195-10

Catalog: 760



Optional Construction

## FCUB

### Forward Curved Utility Set

- > 7.5 to 36.5 inches (195 mm ~ 930 mm) wheel diameters
- > Airflow to 29,100 CFM (49,400 m<sup>3</sup>/hour)
- > Static pressure to 5 inches w.g. (1,240 Pa)
- > AMCA licensed for Air and Fan Efficiency Grade

Catalog: 760



Optional Construction

## DFC

### Forward Curved Junior Utility Sets

- > 6 to 10.5 inches (155 mm ~ 270 mm) wheel diameters
- > Airflow to 2,100 CFM (3,600 m<sup>3</sup>/hour)
- > Static pressure to 1.75 inches w.g. (440 Pa)

Catalog: 760

## CPG

High Efficiency Plug Fan, Backward Curved

- > 12.4 to 49.21 inches (315 mm ~ 1,250 mm) wheel diameters
- > Airflow to 76,000 CFM (129,100 m<sup>3</sup>/hour)
- > Static pressure to 12 inches w.g. (2,980 Pa)

Catalog: 755



## CPLF / CPLFN

Plenum Fan, Airfoil Wheel, 9-Blades

- > 12.4 to 89 inches (315 mm ~ 2,265 mm) wheel diameters
- > Airflow to 280,000 CFM (475,700 m<sup>3</sup>/hour)
- > Static pressure to 10 inches w.g. (2,490 Pa)
- > AMCA licensed for Sound, Air and Fan Efficiency Grade
- > OSHPD Seismic Certification per OSP-0355-10

Catalog: 735



## CPLQ / CPLQN

Plenum Fan, Airfoil Wheel, 12-Blades

- > 12.4 to 89 inches (315 mm ~ 2,265 mm) wheel diameters
- > Airflow to 280,000 CFM (475,700 m<sup>3</sup>/hour)
- > Static pressure to 12 inches w.g. (2,980 Pa)
- > AMCA licensed for Sound, Air and Fan Efficiency Grade
- > OSHPD Seismic Certification per OSP-0355-10

Catalog: 735





## MHA

Industrial Radial Blade Fan, Air Handling Wheel

- > 8.75 to 104.25 inches (225 mm ~ 2,650 mm) wheel diameters
- > Airflow to 141,800 CFM (240,900 m<sup>3</sup>/hour)
- > Static pressure to 32 inches w.g. (7,960 Pa)
- > AMCA licensed for Air and Fan Efficiency Grade



Optional Construction

Catalog: 710



## MHO / MHR

Industrial Radial Blade Fan, Paddle Wheel

- > 8.75 to 104.25 inches (225 mm ~ 2,650 mm) wheel diameters
- > Airflow to 141,800 CFM (240,900 m<sup>3</sup>/hour)
- > Static pressure to 32 inches w.g. (7,960 Pa)
- > AMCA licensed for Air and Fan Efficiency Grade



Optional Construction

Catalog: 710



## MHW

Industrial Radial Blade Fan, Backplate Wool Wheel

- > 8.75 to 104.25 inches (225 mm ~ 2,650 mm) wheel diameters
- > Airflow to 141,800 CFM (240,900 m<sup>3</sup>/hour)
- > Static pressure to 32 inches w.g. (7,960 Pa)
- > AMCA licensed for Air and Fan Efficiency Grade



Optional Construction

Catalog: 710



## MHP

Industrial Radial Blade Fan, Paper Handling Wheel

- > 19 to 45 inches (485 mm ~ 1,145 mm) wheel diameters
- > Airflow to 26,500 CFM (45,000 m<sup>3</sup>/hour)
- > Static pressure to 32 inches w.g. (7,960 Pa)



Optional Construction

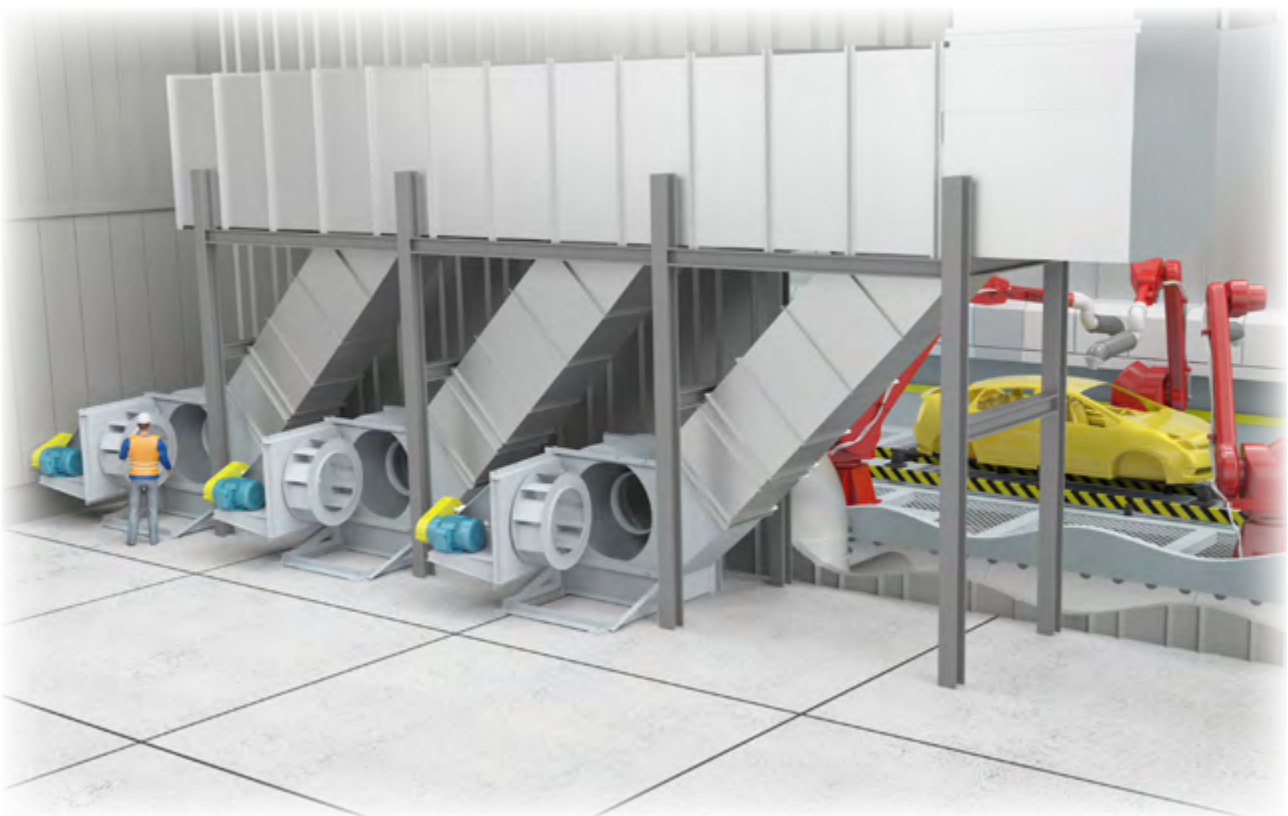
Catalog: 710





## Centrifugal Swingout Construction

 Easy access for frequent cleaning



### Centrifugal Swingout Fans

Centrifugal swingout fans are designed for frequent cleaning and provide full access to the wheel and inner casing of the fan. The entire wheel/shaft/bearing assembly is mounted on a large swingout door for easy access when servicing the unit or when conducting routine maintenance.

- > Available on Centrifugal and Radial Bladed fan models
- > Common applications include: Paint Finishing Systems, Plastic Extrusion, Paper Mills, Dust Collection



# PRESSURE BLOWERS



## PRESSURE BLOWERS

Pressure Blowers are ideal for applications requiring high pressures at relatively low volumes of air. Pressure blower performance will remain stable through the operating range and can be turned down to zero flow via a discharge damper. Aerovent offers a wide range of fan types and sizes to meet clean or particulate laden airstream applications.



**Chemical Extraction**

## WHEEL TYPES

Backward Curved, Backward Inclined & Radial Fabricated Wheels in Open or Shrouded Designs, Composite, Cast Aluminum Radial or Backward Curved

## TYPICAL INDUSTRIES/APPLICATIONS

Air Pollution Control, Asphalt, Boilers, Brick, Cement, Chemical, Coal, Composting, Dust Collection, Explosion-Proof Processes, Food & Beverage, Foundry, General Manufacturing, Glass, Industrial Processes, Marine, Metal & Minerals, Microchip, Mining, Nuclear, Petrochemical, Pharmaceutical, Power Generation, Process Cooling, Pulp & Paper, Recycling, Textile Fiber Stripping and Recycling, Transportation, Water Treatment, Drying Applications, Material Handling, Pneumatic Conveying, Process Applications, Vacuum Systems, Combustion Air, Exhaust, General Manufacturing, Landfill Gas



**Dust Collection**

## COMMON ACCESSORIES

Access Doors, Belt Guards, Drains, Evasé, Inlet Bell, Inlet Boxes, Inlet/Outlet Companion Flanges, Inlet/Outlet Dampers, Inlet Filters, Inlet/Outlet Flanges, Inlet/Outlet Screens, Inlet/Outlet Silencers, Outlet Blast Gates, Shaft & Bearing Guards, Shaft Seals, Vibration Isolation, Special Coatings and Insulated Housings

## OPTIONAL CONSTRUCTION

-   
**Composite**  
(see composite section)
-   
**High Temp**
-   
**Special Materials**
-   
**Marine Duty**
-   
**Spark Resistant or ATEX**
-   
**Nominally Leak Tight**
-   
**Split Housings**

## CERTIFICATIONS

AMCA Sound/Air and FEG, UL 705 Listed for Electrical

## CA / CABD

Cast Aluminum Pressure Blower, Direct Drive and Belt Driven

- > 8 to 18 inch Housing Sizes (205 mm ~ 460 mm)
- > 4 to 10 inch Inlet Diameters (105 mm ~ 255 mm)
- > 8 to 18 inches (205 mm ~ 460 mm) wheel diameters
- > Airflow to 2,800 CFM (4,800 m<sup>3</sup>/hour)
- > Static pressure to 22 inches w.g. (5,470 Pa)

Catalog: 916



## HPBA / HPBS

Turbo Pressure Blower, Aluminum & Steel Wheel

- > 14.5 to 38 inches (370 mm to 965 mm) wheel diameters
- > Airflow to 20,000 CFM (34,000 m<sup>3</sup>/hour)
- > Static pressure to 128 inches w.g. (31,820 Pa)

Catalog: 914



## PB

Pressure Blower, Radial Blade

- > 8 to 12 inches (205 mm ~ 305 mm) wheel diameters
- > Airflow to 1,275 CFM (2,200 m<sup>3</sup>/hour)
- > Static pressure to 10 inches w.g. (2,490 Pa)

Catalog: 904





# COMPOSITE FANS



**Odor Control  
Waste Water Treatment**



**Scrubber Fan**



**Odor Control  
Water Treatment**

## COMPOSITE (FRP) FANS

Composite Fans are specifically designed for the exhaust of moisture-laden, corrosive, or chemically contaminated air. All fans feature molded composite housings. FRP offers a more economical solution compared to stainless steel or other exotic alloys. Multiple wheel types and materials are available to meet any corrosive process requirements while maintaining quiet operation and high efficiency.

## WHEEL/IMPELLER TYPES

Single Thickness Backward Inclined, Airfoil, Open Radial, Axial, Impeller

## TYPICAL INDUSTRIES

Agriculture, Air Pollution Control, Automotive, Car Wash, Cement, Chemical, Coal, Composting, Corrosive Environments, Fertilizer, Food & Beverage, Foundry, General Manufacturing, Glass, HVAC, Industrial Processes, Institutional & Hospitality, Marine, Microchip Processing, Metal & Minerals, Mining, OEM, Odor Control, Petrochemical, Pharmaceutical, Power Generation, Pulp & Paper, Steel Processing, Textile, Swimming Pool Exhaust, Water Treatment

## COMMON ACCESSORIES

Stainless Steel Fan Shafts, Synthetic Surface Veils, Fire Retardant Resins, Vinyl Ester, Static Grounding, Access Doors, Drains, Inlet & Outlet Guards, Shaft & Bearing Guards, Belt Guards, Motor Covers, Vibration Isolation, Silica Sand, Thrust Vanes, Shaft Seals, Horizontal Support Legs, Stack Caps, Curb Bases, Stainless Steel Hardware and Extended Lube Lines

## OPTIONAL CONSTRUCTION

High Pressure Carbon Fiber Wheels, ASTM D4167 Construction



**BCF****Backward Curved High Pressure Composite Fan**

- > 16.5 to 60 inches (419 mm ~ 1,525 mm) wheel diameters
- > Airflow to 145,000 CFM (246,400 m<sup>3</sup>/hour)
- > Static pressure to 34 inches w.g. (8,470 Pa)
- > **AMCA licensed for Sound, Air and Fan Efficiency Grade**

Catalog: 745

PATENTED SAFETY CONTAINMENT HOUSINGS

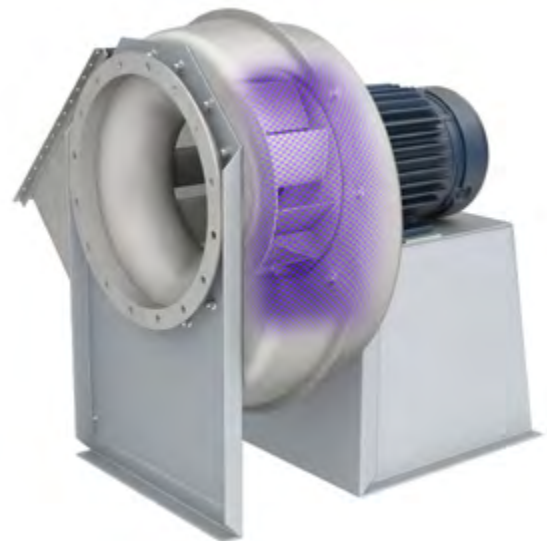
Many of today's processes incorporate chemical components that are not compatible with ferrous metal with quality coatings or high-nickel, white metals, like stainless steel and Monel. Over time these chemicals will break down even the toughest composite (FRP) materials. Many chemicals contain fluorine. 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.

PATENTED CARBON FIBER WHEEL DESIGN

Aerovent's BCF fan is available with a 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 ( $WR^2$ ). This allows for less stress on the motor and drive package (belt driven).



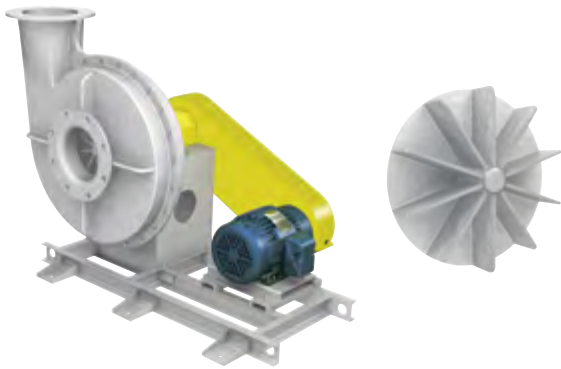


## RBF

Fiberglass Radial Blade Centrifugal Fan

- > 10 to 57 inches (255 mm ~ 1,450 mm) wheel diameters
- > Airflow to 38,300 CFM (65,100 m<sup>3</sup>/hour)
- > Static pressure to 18 inches w.g. (4,475 Pa)
- > AMCA licensed for Air and Fan Efficiency Grade

Catalog: 750

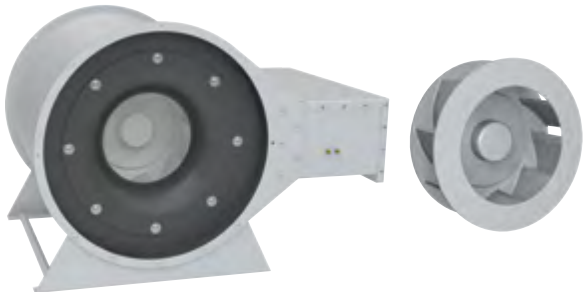


## HPBF

Fiberglass High Pressure Blower, Radial Blade

- > 18 to 28 inches (460 mm ~ 715 mm) wheel diameters
- > Airflow to 4,700 CFM (8,000 m<sup>3</sup>/hour)
- > Static pressure to 36 inches w.g. (8,950 Pa)

Catalog: 950

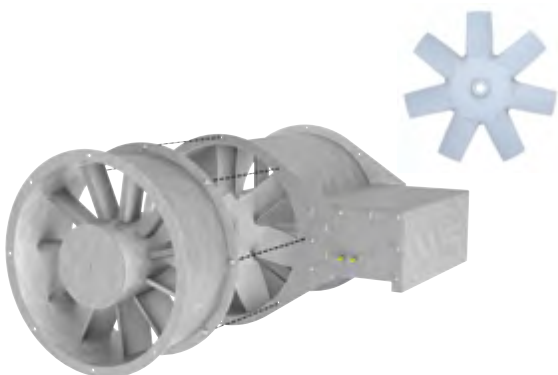


## CBDF

Fiberglass Inline Centrifugal Fan

- > 12 to 39 inches (305 mm ~ 990 mm) wheel diameters
- > Airflow to 35,900 CFM (61,000 m<sup>3</sup>/hour)
- > Static pressure to 7 inches w.g. (1,740 Pa)

Catalog: 360



## VTFBD

Fiberglass Type TF Vaneaxial Fan, Belt Driven

- > 12 to 60 inches (305 mm ~ 1,525 mm) impeller diameters
- > Airflow to 81,200 CFM (138,000 m<sup>3</sup>/hour)
- > Static pressure to 4 inches w.g. (1,000 Pa)

Catalog: 185



## FDP

Fiberglass Panel Fan, Direct Drive

- > 12 to 48 inches (305 mm ~ 1,220 mm) impeller diameters
- > Airflow to 41,900 CFM (71,200 m<sup>3</sup>/hour)
- > Static pressure to 1 inch w.g. (250 Pa)

Catalog: 185



## TFBD

Fiberglass Type TF Tubeaxial Fan, Belt Driven

- > 12 to 60 inches (305 mm ~ 1,525 mm) impeller diameters
- > Airflow to 83,200 CFM (141,400 m<sup>3</sup>/hour)
- > Static pressure to 2.5 inches w.g. (620 Pa)

Catalog: 185



## FBD

Fiberglass Type FG7 Tubeaxial Fan, Belt Driven

- > 14 to 60 inches (355 mm ~ 1,525 mm) impeller diameters
- > Airflow to 51,900 CFM (88,200 m<sup>3</sup>/hour)
- > Static pressure to 1.5 inches w.g. (370 Pa)

Catalog: 185

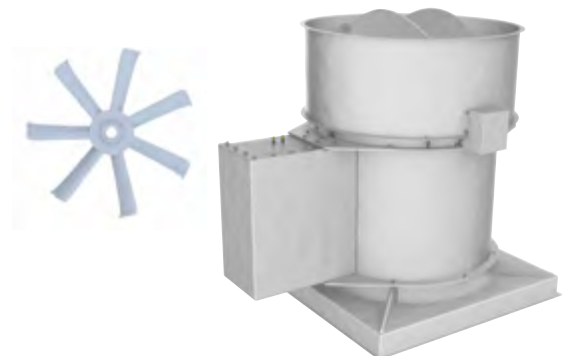


## FRV

Fiberglass Tubeaxial Roof Ventilator

- > 14 to 60 inches (355 mm ~ 1,525 mm) impeller diameters
- > Airflow to 50,800 CFM (86,300 m<sup>3</sup>/hour)
- > Static pressure to 1.5 inches w.g. (370 Pa)

Catalog: 185



# FIBERGLASS VENTILATORS

**Aerovent**



## **AFA / AFAB**

Fiberglass Centrifugal Roof Ventilators, Direct Drive and Belt Driven

- > 7 to 40 inches (180 mm ~ 1,020 mm) wheel diameters
- > Airflow to 19,500 CFM (33,100 m<sup>3</sup>/hour)
- > Static pressure to 1.75 inch w.g. (440 Pa)

Catalog: 977



## **AWA / AWAB**

Fiberglass Centrifugal Roof Ventilators, Direct Drive and Belt Driven

- > 7 to 40 inches (180 mm ~ 1,020 mm) wheel diameters
- > Airflow to 21,500 CFM (36,500 m<sup>3</sup>/hour)
- > Static pressure to 2 inches w.g. (500 Pa)

Catalog: 977



## **ASA**

Fiberglass Centrifugal Wall Ventilator, Direct Drive

- > 7 to 14 inches (180 mm ~ 355 mm) wheel diameters
- > Airflow to 2,230 CFM (3,800 m<sup>3</sup>/hour)
- > Static pressure to 1 inch w.g. (250 Pa)

Catalog: 977



## **AHA / AHAB**

Fiberglass Centrifugal Wall Ventilators, Direct Drive and Belt Driven

- > 7 to 30 inches (180 mm ~ 765 mm) wheel diameters
- > Airflow to 9,820 CFM (16,700 m<sup>3</sup>/hour)
- > Static pressure to 1 inch w.g. (250 Pa)

Catalog: 977

## FILTERED SUPPLY FANS

Filtered Supply Fans are axial fans with cast or adjustable pitch aluminum impellers. These units are designed to provide filtered outside air to buildings such as manufacturing plants, warehouses and auditoriums. Filtered Supply Fans are also available in stainless steel and other special materials.

## COMMON ACCESSORIES

Access Doors, Weatherhoods, Motor Operated Dampers, Special Coatings, Throw Away Or Washable Filters, Inlet & Outlet Guards, Directional Discharge Box With Grilles, Roof Curbs, Externally Mounted Conduit Boxes, and Extended Lube Lines



## **FF**

### Filter Fan, Wall Mounted

- > 12 to 30 inches (305 mm ~ 765 mm) impeller diameters
- > Airflow to 5,370 CFM (9,100 m<sup>3</sup>/hour)
- > Static pressure to 0.5 inches w.g. (100 Pa)

Catalog: 664



## **FSWD / FSWB**

### Filtered Air Supply Fan, Wall Mounted

- > 24 to 60 inches (610 mm ~ 1,525 mm) impeller diameters
- > Airflow to 52,600 CFM (89,400 m<sup>3</sup>/hour)
- > Static pressure to 1 inch w.g. (250 Pa)

Catalog: 664



## **FSR**

### Filtered Air Supply Fan, Roof Mounted

- > 24 to 60 inches (610 mm ~ 1,525 mm) impeller diameters
- > Airflow to 49,300 CFM (83,800 m<sup>3</sup>/hour)
- > Static pressure to 0.75 inches w.g. (200 Pa)

Catalog: 664







# MAKE-UP AIR UNITS



**Heavy Industrial Supply Air**

### MAKE-UP AIR UNITS

The Aerovent Air Make-Up Unit is a complete air supply system in a self-contained package with fan, burner and controls. The unit is ready for connection to the gas line and power source.

These units are available in various sizes and types which can be designed into nearly all industrial requirements. The equipment is designed for tempering outside air and supplying it into the building for ventilation make-up and balancing of negative pressure. The units are also adaptable to other applications where ordinary heating or drying operations are involved. Available with centrifugal and axial fans.



**Door Air Heaters**

### TYPICAL INDUSTRIES/APPLICATIONS

Automotive, Chemical Processing, Heating, Cooling, Humidifying, Food Processing, Foundries, Chemical Processing, Energy Recovery, Air Filtration / Fresh Air Supply, Air Turnover, Door Air Heaters, Process Heating and Cooling, Product Dryers, Paint Finishing Systems Manufacturing, Mining, Pharmaceutical, Power Generation, Pulp & Paper, Steel Mills, Textile, Transit Stations, Warehousing, Wastewater and Sewage

### COMMON ACCESSORIES

V-Bank Filter Sections, Intake Hood with Birdscreen, Mild Weather Thermostat, Flame Relay Remote Reset

### OPTIONAL CONSTRUCTION

Double Wall Insulation, Curb Mount Construction, Vertical Construction, IRI & FM Pipetrain Options



**Light Industrial Supply Air**

### CERTIFICATIONS (Models BIBT/FCBT)

ETL Approved, Built to ANSI Z83.4 Standards, AMCA 210 Fan & Blower Performance Tested, FM & IRI Insurance Standards as Required



## **BIBT / FCBT**

### Direct-Fired Gas Air Make-Up Units

- > 14-gauge galvanized steel housing.
- > Peaked roof eliminates standing water.
- > 0°- 92° temperature rise. Dual fuel burner.
- > Factory assembled and tested. Remote operating station.

Catalog: 872

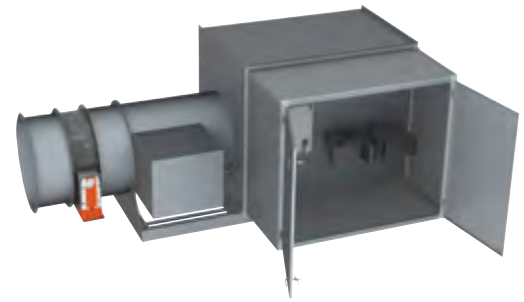


## **GA / GAS / GACDW / GACSW**

### Gas-Fired Air Make-Up Units

- > Capacities to 100,000 CFM (169,900 m<sup>3</sup>/hour)
- > Capacities to 10,000,000 Btu/hr
- > External static pressure to 5 inches w.g. (1,243 Pa)

Catalog: 864



## **S / SACDW / SACSW**

### Steam-Air Make-Up Units

- > Capacities to 60,000 CFM (101,900 m<sup>3</sup>/hour)
- > Capacities to 5,000,000 Btu/hr

Catalog: 856



## **DAH**

### Gas Door Air Heaters

- > 6,200 CFM unit has outlet velocity of 3,500 FPM
- > 4,100 CFM unit has outlet velocity of 2,300 FPM

Catalog: 896



## **AC**

### Spray Type Air Cooler

Catalog: 1103





## OEM PRODUCTS FANS / IMPELLERS / COMPONENTS



**Industrial Bake Ovens**

### ORIGINAL EQUIPMENT MANUFACTURER (OEM) PRODUCTS

Aerovent has been custom designing products for our OEM customer base for decades. OEMs require specially engineered products to meet specific demands for size, fit-up, efficiency, sound and durability. Aerovent is able to provide the right fan for every application and modify as needed for the specific installation. By leveraging our expansive engineering and application expertise, we have become experts at tackling the most technically complex and unique applications. This often involves evaluating existing fan technology and, in many cases, requires us to redesign and prototype a fully-customized fan solution.



**Turbine Cooling**

Aerovent has worked side-by-side with the most prevalent companies in the world and has earned a reputation for turning ideas into innovative solutions. Our individualized efforts to satisfy the specific needs of our customers is yet another way that we continue to distinguish ourselves in the market.

### COMMON OEM APPLICATIONS

Paint Finishing Systems, Baking Ovens, Snow Makers, Turbine Cooling, Radiator Core, Engine Cooling Systems, Compressors, Heat Exchangers, Oil Coolers, Cooling Towers



**Paint Finishing Systems**





**AHX**

## Adjustable Pitch Impeller

- > 54 to 144 inches (1,375 mm ~ 3,660 mm) impeller diameters
- > Airflow to 328,600 CFM (558,300 m<sup>3</sup>/hour)
- > Static pressure to 1.5 inches w.g. (370 Pa)

Catalog: 524

**BSA / BSP**

## BackSwept™ Impeller

- > 12 to 81 inches (305 mm ~ 2,060 mm) impeller diameters
- > Airflow to 140,000 CFM (237,900 m<sup>3</sup>/hour)
- > Static pressure to 2 inches w.g. (500 Pa)

**AHX-E**

## Adjustable Pitch 'E' Impeller

- > 14 to 48 inches (355 mm ~ 1,220 mm) impeller diameters
- > Airflow to 50,000 CFM (85,000 m<sup>3</sup>/hour)
- > Static pressure to 2.5 inches w.g. (620 Pa)

Catalog: 524

**CPLF / CPLFN / CPLQ / CPLQN**

## Plenum Fans, Airfoil Wheel: 9-Blade &amp; 12-Blade Designs

- > 12.4 to 89 inches (315 mm ~ 2,265 mm) wheel diameters
- > Airflow to 280,000 CFM (475,700 m<sup>3</sup>/hour)
- > Static pressure to 12 inches w.g. (2,980 Pa)
- > AMCA licensed for Sound, Air and Fan Efficiency Grade
- > OSHPD Seismic Certification per OSP-0355-10

Catalog: 735

**CPG**

## High Efficiency Plug Fan, Backward Curved

- > 12.4 to 49.21 inches (315 mm ~ 1,250 mm) wheel diameters
- > Airflow to 76,000 CFM (129,100 m<sup>3</sup>/hour)
- > Static pressure to 12 inches w.g. (2,980 Pa)

Catalog: 755





# MANCOOLERS



## MANCOOLERS

Mancoolers are constructed of high quality axial fans with cast or adjustable pitch aluminum impellers and are designed for general unducted air movement. Swivel bases allow for a full 360° rotation, providing airflow from any angle. The stationary units can be adjusted for airflow in any direction and are manufactured with a predrilled base plate for wall, column, ceiling or floor mounting. Mancoolers are also available in stainless steel and other special materials.

## COMMON ACCESSORIES

OSHA Inlet & Outlet Guards, Swivel & Locking Wheels, Lifting Eyes and Special Coatings



## **UM / PUM**

### Utility Mancooler

- > 16 to 42 inches (410 mm ~ 1,070 mm) impeller diameters
- > Airflow to 36,500 CFM (62,000 m<sup>3</sup>/hour)

Catalog: 264



## **M39**

### Model 39 Mancooler

- > 24 to 42 inches (610 mm ~ 1,070 mm) impeller diameters
- > Airflow to 36,500 CFM (62,000 m<sup>3</sup>/hour)

Catalog: 264



## **STL**

### Steeler Mancooler

- > 24 to 48 inches (610 mm ~ 1,220 mm) impeller diameters
- > Airflow to 46,900 CFM (79,700 m<sup>3</sup>/hour)

Catalog: 264



# GRIDSMART™

VARIABLE FREQUENCY DRIVES

By Aerovent

## GridSmart™ VFDs

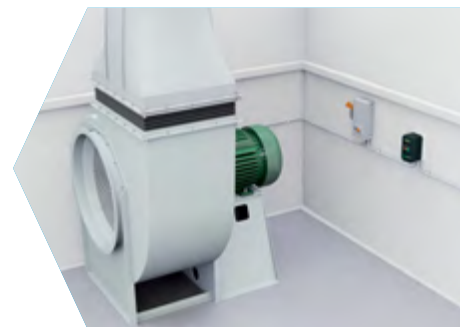
Aerovent is proud to offer our new line of GridSmart™ Variable Frequency Drives (VFD). GridSmart™ VFDs are an ideal solution for our customers who are looking to reduce their energy consumption while complying with the Department of Energy's new fan regulations.

GridSmart™ VFDs are a versatile drive product that can be easily configured for almost any application involving fans and blowers. They come standard with simple-to-select preset parameters for common fan applications.

While the average energy savings varies from system to system, the initial cost of a GridSmart™ VFD will quickly pay for itself — resulting in reduced operating costs and maintenance over the life of your fan and motor.

## Benefits of GridSmart™ VFDs Include:

- > Reduces energy consumption and operating costs
- > Optimizes motor operation to match the requirements of the system
- > Allows equipment to operate at lower speeds, extending the life of the equipment and reducing maintenance
- > Eliminates the need for dampers, inlet vanes and soft starters
- > Eliminates the need for belt driven fans and maintaining belts and bearings



### **Model F510**

- 5-150 HP (230V)
- 5-250 HP (460V)



### **Model L510**

- 1/4-1 HP (115V)
- 1/4-3 HP (230V)
- 1-3 HP (460V)



## WEATHERPROOF SILENCER

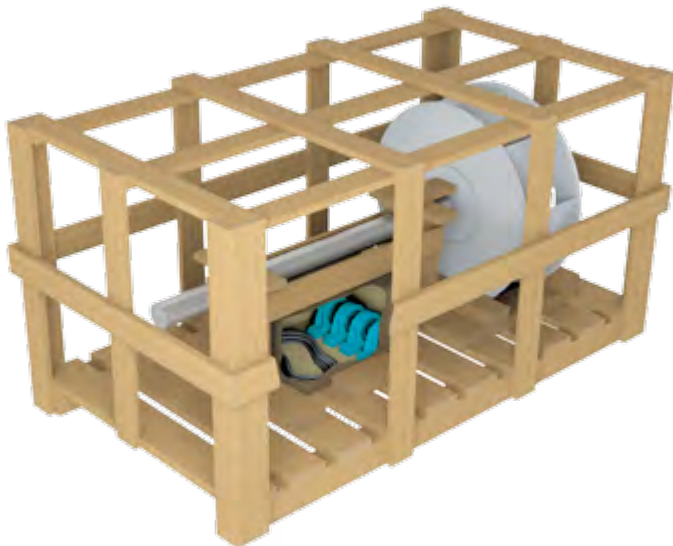


### Weatherproof Silencer

For outdoor vertical up airflow applications

- > Weatherproof sound attenuation device (Patent No. US 6,457,550 B1)
- > One-piece construction combines silencer and backdraft damper
- > Unitary construction reduces field installation time and cost. Less labor required for assembly/erection onto fan tower
- > Unique design allows rainwater to drain through slots to exterior of unit
- > Overall length is less than traditional silencer/damper

## SPARE PARTS



### Spare Parts

For Process Critical Applications

Customers often require an additional supply of spare parts for process critical applications. Having the ability to quickly replace parts is vital for keeping operations up and running. When specified, Aerovent can provide additional spare parts that are crated/packaged for easy storage. Common spare parts typically include:

- > Belts
- > Bearings
- > Wheels
- > Shafts
- > Shaft Seals
- > Safety Guards



**Floor Spring Isolators**



**Floor RIS Isolators**



**Ceiling Hung Spring Isolators**



**Ceiling Hung RIS Isolators**

## WALL PROPELLER FANS



DDP



BP



DDR

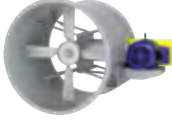


BR

## AXIAL FANS



TA



TABD



PTA



PTABD



BTABD



VJ



VJBD



VP



VPBD



VSBD/TSBD

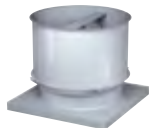
## ROOF VENTILATORS



BD40C



SV40



D53 / B53



HD53 / HB53



AFE



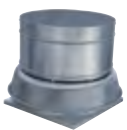
TW / TWB  
TWBD



RRES



RREH



ACXD / ACX



ATD / ATDR



ATB / ATBR



ATDW / ATDWR  
AWX / AWXR

## CENTRIFUGAL FANS & BLOWERS



CB-SW



CB-DW



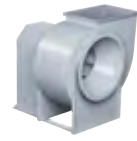
CAE-SW



CAE-DW



BIUB / BIUBR  
BIUBSH



BAUB



FCUB



DFC



CPLQ / CPLQN



CPLF / CPLFN



CPG



MHA



MHO / MHR



MHW / MHP



**COMPOSITE FANS & VENTILATORS**



BCF



RBF



HPBF



FDP



FRV



FBD



TFBD



VTFBD



CBDF



AFA / AFAB



AWA / AWAB



ASA



AHA / AHAB

**INLINE CENTRIFUGAL & MIXED FLOW FANS**



AMX / AMXR  
AMXSH



CDD



CBD



SCDD / SCBD

**PRESSURE BLOWERS**



CA / CABD



HPBA / HPBS



PB

**MAKE-UP AIR UNITS**



BIBT / FCBT



S / SACDW  
SACS



GA / GAS  
GACDW / GACS



DAH



AC

**FILTERED SUPPLY FANS**



FF



FSWD / FSWB



FSR

**MANCOOLERS**



M39



STL



UM



PUM

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**PROPELLER FANS | TUBEAXIAL & VANEAXIAL FANS | CENTRIFUGAL FANS & BLOWERS | ROOF VENTILATORS  
AIR HEATERS & COOLERS | AIR MAKE-UP | COMPOSITE FANS | CUSTOM FANS**



**[WWW.AEROVENT.COM](http://WWW.AEROVENT.COM)**

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