

FULL LINE CATALOG





AEROVENT

WHO WE ARE

High-Quality Products and 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 allows 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 centrifugal and axial impellers, 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 product line has established itself as the symbol of quality air handling equipment in every industry.





WHAT WE BUILD

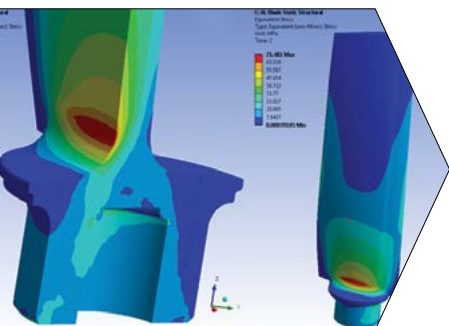
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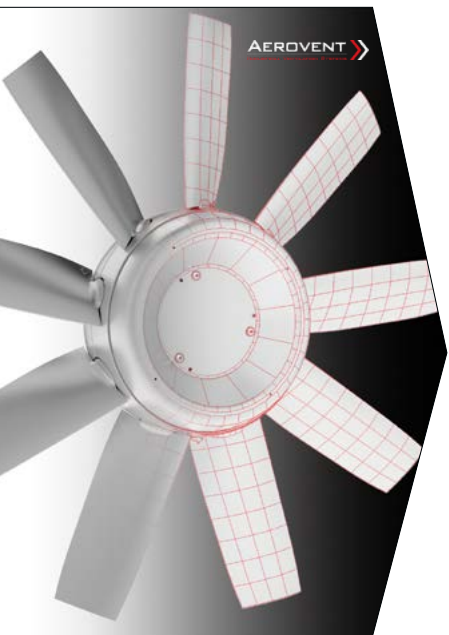


AEROVENT 
INDUSTRIAL VENTILATION SYSTEMS

The Industrial Choice.



Finite Element Analysis



3D Modeling

› 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 and High Cycle
- ✓ Rotor Dynamics Calculations, Forced Response and Sensitivity
- ✓ Rotor Natural Frequencies and Modal Shape Determination
- ✓ Foundation Stiffness Requirement Calculations
- ✓ 3D Solid Modeling
- ✓ Vibration Analysis and FFT Spectrum Analysis
- ✓ Aerodynamic Design and Analysis
- ✓ Computational Fluid Dynamics

› FAN SELECTION SOFTWARE

Aerovent's Fan Selection Software is designed to raise the bar for fan system configurations. The software offers a dynamic interface that supports both standard and highly-engineered fans. Whether in the commercial or industrial market, Fan Selector is robust enough to handle the application. The software features an easy-to-use interface, multiple selection methods, performance curves, instant drawings and more. Our highly-intuitive software quickly allows the user to navigate through selection, configuration and quotation.



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.

> 5S METHODOLOGY

The use of 5S methodology in our plants helps us maintain manufacturing excellence. In simple terms, the 5S methodology helps a workplace remove items that are no longer needed (SORT), designate a place for everything and put everything in its place (STRAIGHTEN), clean the area in order to more easily identify problems (SHINE), implement color coding and labels to stay consistent with other areas (STANDARDIZE) and develop behaviors that keep the workplace organized over the long term (SUSTAIN). Our 5S program is being used in addition to other lean manufacturing initiatives.



Plasma Cutter



Cast Solid Impellers



Powder Coat Paint System





TESTING SERVICES

IN-HOUSE

› 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.

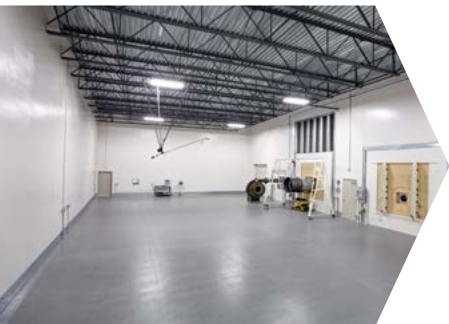
- ✓ AMCA 204 Balance and Vibration Testing
- ✓ AMCA 210 Performance Testing
- ✓ AMCA 250 Jet Fan Thrust Testing
- ✓ AMCA 260 Induced Flow Testing
- ✓ AMCA 300 Sound Testing
- ✓ UL 705 Safety Testing
- ✓ High Temperature/Survivability Testing
- ✓ Mechanical Run Testing
- ✓ Narrow Band Sound and Vibration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



Overspeed Test Setup



**AMCA 210
Air Performance Testing**



**AMCA Accredited
Reverberant Sound Room**

AEROVENT 
INDUSTRIAL VENTILATION SYSTEMS



ON-SITE

FIELD SERVICES

› START-UP SERVICES

Having the peace of mind that your fan is installed and operating properly prior to start-up is crucial. Aerovent offers a wide range of start-up services and precision checks, including inlet and impeller 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 that 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 and Sheave Laser Alignment
- ☑ Installation Assistance
- ☑ Commissioning

› FIELD SERVICES

Keeping existing fans operational is crucial to any business. At Aerovent, our on-site field service personnel can provide many types of service, including basic inspections, maintenance, troubleshooting, repairs and in-depth analysis. We'll keep your unit performing as it should to prevent costly down time.

- ☑ Vibration/Spectrum Analysis
- ☑ Motion Amplification
- ☑ Non-Destructive Evaluation (NDE)
- ☑ Balance & Alignment
- ☑ Preventive Maintenance
- ☑ Mechanical Inspections/Repair
- ☑ Troubleshooting/Technical Support



Fan Assembly Inspection



Installation Assistance



Coupling Alignment



WALL MOUNTED FANS

AEROVENT
INDUSTRIAL VENTILATION SYSTEMS



Warehouse Exhaust



Mine Ventilation



Generator Room Exhaust

WALL MOUNTED FANS

Wall mounted 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 Mounted 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, Weather Hoods, Backdraft Dampers, Extended Lube Lines, Special Coatings, Disconnect Switches, Single Point Wiring

OPTIONAL CONSTRUCTION



Marine Duty



Composite
(see Fiberglass Fans
section for composite Wall
Mounted models)



Special Materials

CERTIFICATIONS

AMCA Sound/Air and FEI, 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 m³/hour)
- > Static pressure to 1.5 inches w.g. (370 Pa)
- > [AMCA licensed for Air and Fan Energy Index](#)

Catalog: 168



AL

Standard Impellers



Optional Construction



DDPRC

Panel Fans, Direct Drive, Reverse Constructed

- > 9 to 72 inches (230 mm ~ 1,830 mm) impeller diameters
- > Airflow to 98,000 CFM (166,500 m³/hour)
- > Static pressure to 1.5 inches w.g. (370 Pa)
- > [AMCA licensed for Air and Fan Energy Index](#)

Catalog: 168



AL

Standard Impellers



Optional Construction



DDPRF

Panel Fans, Direct Drive, Reverse Flow

- > 9 to 48 inches (230 mm ~ 1,220 mm) impeller diameters
- > Airflow to 45,000 CFM (76,500 m³/hour)
- > Static pressure to 1.5 inches w.g. (370 Pa)
- > [AMCA licensed for Air and Fan Energy Index](#)

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 m³/hour)
- > Static pressure to 1.5 inches w.g. (370 Pa)
- > [AMCA licensed for Air and Fan Energy Index](#)

Catalog: 168



AL

Standard Impellers



Optional Construction



BPRC

Panel Fans, Belt Driven, Reverse Constructed

- > 24 to 72 inches (610 mm ~ 1,830 mm) impeller diameters
- > Airflow to 89,100 CFM (151,400 m³/hour)
- > Static pressure to 1.5 inches w.g. (370 Pa)
- > [AMCA licensed for Air and Fan Energy Index](#)

Catalog: 168



AL

Standard Impellers



Optional Construction



WALL MOUNTED FANS



AL

Standard Impellers



Optional Construction

BPRF

Panel Fans, Belt Driven, Reverse Flow

- > 24 to 72 inches (610 mm ~ 1,830 mm) impeller diameters
- > Airflow to 89,100 CFM (151,400 m³/hour)
- > Static pressure to 1.5 inches w.g. (370 Pa)
- > **AMCA licensed for Air and Fan Energy Index**

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 m³/hour)
- > Static pressure to 1.5 inches w.g. (370 Pa)
- > **AMCA licensed for Air and Fan Energy Index**

Catalog: 168



AL

Standard Impellers



Optional Construction

DDRRC

Ring Fans, Direct Drive, Reverse Constructed

- > 9 to 96 inches (230 mm ~ 2,440 mm) impeller diameters
- > Airflow to 136,000 CFM (231,100 m³/hour)
- > Static pressure to 1.5 inches w.g. (370 Pa)
- > **AMCA licensed for Air and Fan Energy Index**

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 m³/hour)
- > Static pressure to 1.5 inches w.g. (370 Pa)
- > **AMCA licensed for Air and Fan Energy Index**

Catalog: 168

BRRC

Ring Fans, Belt Driven, Reverse Constructed

- > 24 to 96 inches (610 mm ~ 2,440 mm) impeller diameters
- > Airflow to 131,100 CFM (222,700 m³/hour)
- > Static pressure to 1.5 inches w.g. (370 Pa)
- > [AMCA licensed for Air and Fan Energy Index](#)

Catalog: 168



AL

Standard Impellers



Optional Construction



BRRF

Ring Fans, Belt Driven, Reverse Flow

- > 24 to 48 inches (610 mm ~ 1,220 mm) impeller diameters
- > Airflow to 45,500 CFM (77,300 m³/hour)
- > Static pressure to 1.5 inches w.g. (370 Pa)
- > [AMCA licensed for Air and Fan Energy Index](#)

Catalog: 168



AL

Standard Impellers



Optional Construction



BSDDP

Wall Mounted Fan, Medium Duty, Direct Drive

- > 14 to 48 inches (355 mm ~ 1,220 mm) impeller diameters
- > Airflow to 35,300 CFM (60,000 m³/hour)
- > Static pressure to 1 inch w.g. (250 Pa)
- > [AMCA licensed for Sound and Air and Fan Energy Index](#)

Catalog: 172



AL

Standard Impellers



BSBP

Wall Mounted Fan, Light & Medium Duty, Belt Driven

- > 21 to 60 inches (535 mm ~ 1,525 mm) impeller diameters
- > Airflow to 62,830 CFM (106,700 m³/hour)
- > Static pressure to 1 inch w.g. (250 Pa)
- > [AMCA licensed for Sound and Air and Fan Energy Index](#)

Catalog: 172



AL

Standard Impellers





AXIAL FANS

AEROVENT
INDUSTRIAL VENTILATION SYSTEMS

AXIAL FANS

Tubeaxial fans are designed to handle a wide range of requirements from general ventilation to process air supply. The mounting flexibility makes them an ideal choice for many industrial and commercial applications. Units are available as direct or belt driven, with steel or aluminum impellers 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 impellers, are available. The tubular design and high impeller 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 Caps, Externally Mounted Conduit Boxes and Extended Lube Lines

OPTIONAL CONSTRUCTION



Composite
(see Fiberglass Fans section for composite Axial models)



High Temp



Marine Duty



Special Materials



Easy Access



Spark Resistant or ATEX



High Moisture

CERTIFICATIONS

AMCA Sound/Air and FEI, 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 m³/hour)
- > Static pressure to 1.5 inches w.g. (370 Pa)
- > **AMCA licensed for Air and Fan Energy Index**

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 m³/hour)
- > Static pressure to 1.5 inches w.g. (370 Pa)
- > **AMCA licensed for Air and Fan Energy Index**

Catalog: 157



AL

Standard Impellers



Optional Construction



ATA

Axipal Tubeaxial Fan, Direct Drive

- > 13.65 to 48.78 inches (350 mm ~ 1,240 mm) impeller diameters
- > Airflow to 75,600 CFM (128,400 m³/hour)
- > Static pressure to 4.5 inches w.g. (1,120 Pa)
- > **AMCA licensed for Sound and Air**

Catalog: 400



AL

Standard Impellers



Optional Construction



BSTA

Tubeaxial Commercial Fan, Direct Drive

- > 14 to 48 inches (355 mm ~ 1,220 mm) impeller diameters
- > Airflow to 42,900 CFM (72,900 m³/hour)
- > Static pressure to 1.5 inches w.g. (370 Pa)
- > **AMCA licensed for Sound and Air**

Catalog: 435



AL

Standard Impellers



BSTAB

Tubeaxial Commercial Fan, Belt Driven

- > 14 to 54 inches (355 mm ~ 1,375 mm) impeller diameters
- > Airflow to 61,000 CFM (103,600 m³/hour)
- > Static pressure to 1.5 inches w.g. (370 Pa)
- > **AMCA licensed for Sound and Air**

Catalog: 435



AL

Standard Impellers



Optional Construction



AXIAL FANS



AL

Standard Impellers



Optional Construction

PTA / PTABD

Type P Tubeaxial Fan, Direct Drive and Belt Driven

- > 12 to 60 inches (305 mm ~ 1,525 mm) impeller diameters
- > Airflow to 96,000 CFM (163,100 m³/hour)
- > Static pressure to 5 inches w.g. (1,240 Pa)
- > UL 705 listed

Catalog: 414



STL

SS

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 m³/hour)
- > Static pressure to 4 inches w.g. (995 Pa)
- > UL 705 listed

Catalog: 482



AL

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 m³/hour)
- > Static pressure to 1.25 inches w.g. (310 Pa)
- > Short casing and self-lubricating type bearings

Catalog: 159

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 m³/hour)
- > Static pressure to 6 inches w.g. (1,490 Pa)
- > **AMCA licensed for Sound, Air and Fan Energy Index**

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 m³/hour)
- > Static pressure to 6 inches w.g. (1,490 Pa)
- > **AMCA licensed for Sound, Air and Fan Energy Index**

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 m³/hour)
- > Static pressure to 5.5 inches w.g. (1,370 Pa)
- > **AMCA licensed for Air and Fan Energy Index**

Catalog: 446



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 m³/hour)
- > Static pressure to 7 inches w.g. (1,740 Pa)
- > **AMCA licensed for Air and Fan Energy Index**

Catalog: 446



AL

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 m³/hour)
- > Static pressure to 4 inches w.g. (995 Pa)
- > UL 705 listed

Catalog: 485



STL

SS

Standard Impellers



Optional Construction



AXIAL FANS



AL

Standard Impellers



Optional Construction

VW

Type W Vaneaxial Fan, Direct Drive (Adjustable Impeller)

- > 18 to 84 inches (460 mm ~ 2,135 mm) impeller diameters
- > Airflow to 224,700 CFM (381,800 m³/hour)
- > Static pressure to 4 inches w.g. (995 Pa)
- > **AMCA licensed for Air**

Catalog: 456



AL

Standard Impellers



Optional Construction

VWBD

Type W Vaneaxial Fan, Belt Driven (Adjustable Impeller)

- > 25 to 84 inches (635 mm ~ 2,135 mm) impeller diameters
- > Airflow to 211,000 CFM (138,500 m³/hour)
- > Static pressure to 4 inches w.g. (995 Pa)
- > **AMCA licensed for Air**

Catalog: 456



AL

Standard Impellers

FPAC

Vaneaxial Fan, Controllable Pitch-in-Motion

- > 32 to 79 inches (815 mm ~ 2,010 mm) impeller diameters
- > Airflow to 250,000 CFM (424,800 m³/hour)
- > Static pressure to 12 inches w.g. (2,980 Pa)

Catalog: FA-202



AL

Standard Impellers

FPDA

Vaneaxial Fan, Adjustable Pitch-at-Rest

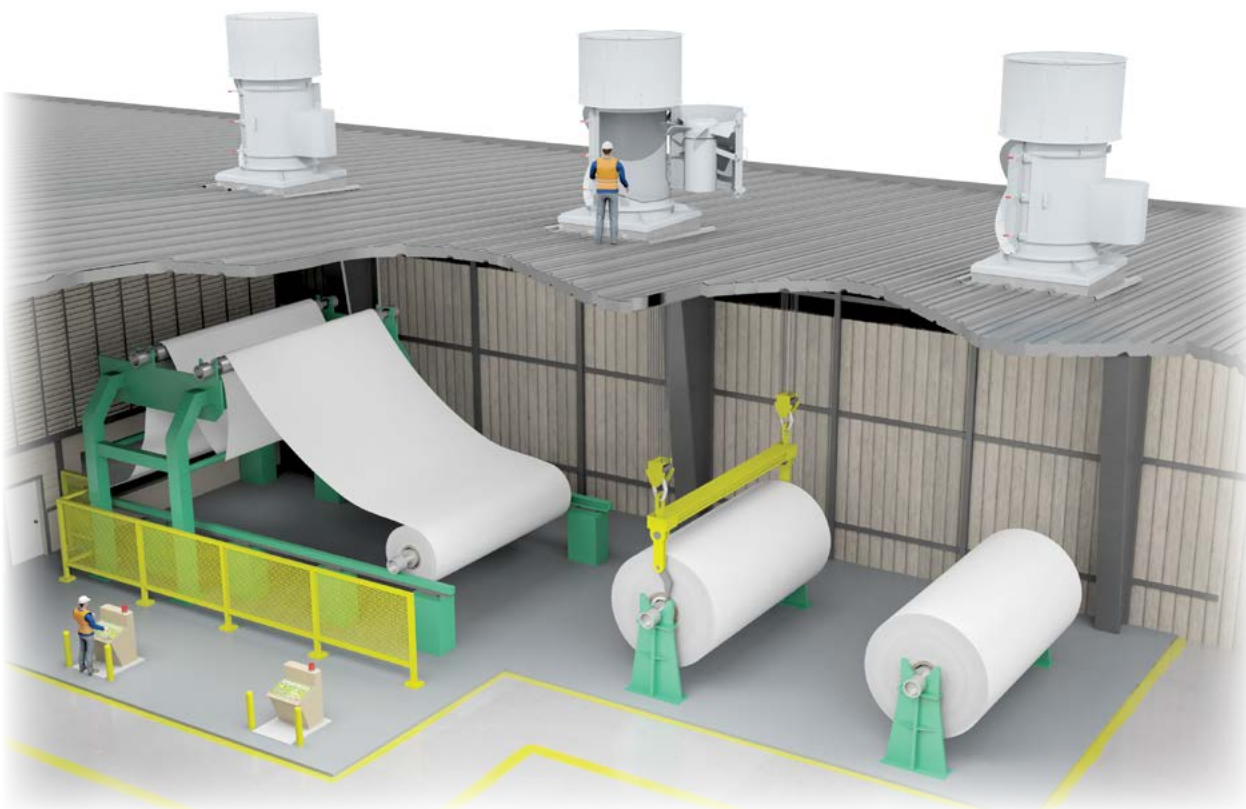
- > 32 to 79 inches (815 mm ~ 2,010 mm) impeller diameters
- > Airflow to 250,000 CFM (424,800 m³/hour)
- > Static pressure to 12 inches w.g. (2,980 Pa)

Catalog: FA-202



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 and Aluminum Foundries

FILTERED SUPPLY FANS

AEROVENT
INDUSTRIAL VENTILATION SYSTEMS



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, Weather Hoods, 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



Standard Impellers
(Fixed & Adjustable)

FSWD

Filtered Air Supply Fan, Wall Mounted, Direct Drive

- > 24 to 48 inches (610 mm ~ 1,220 mm) impeller diameters
- > Airflow to 35,700 CFM (60,700 m³/hour)
- > Static pressure to 1 inch w.g. (250 Pa)

Catalog: 664



Standard Impellers
(Fixed & Adjustable)

FSWB

Filtered Air Supply Fan, Wall Mounted, Belt Driven

- > 24 to 60 inches (610 mm ~ 1,525 mm) impeller diameters
- > Airflow to 52,600 CFM (89,400 m³/hour)
- > Static pressure to 0.75 inch w.g. (190 Pa)

Catalog: 664



Standard Impellers
(Fixed & Adjustable)

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 m³/hour)
- > Static pressure to 0.75 inches w.g. (190 Pa)

Catalog: 664



AEROVENT
INDUSTRIAL VENTILATION SYSTEMS

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

STL

Steel

AL

Aluminum

SS

Stainless Steel

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

COMMON ACCESSORIES

Access Doors, Backdraft Dampers, Inlet Guards, Bird Screens, Two Groove Drives, Fusible Links, Motor Covers, Externally Mounted Conduit Boxes, Curb Caps, Hinged Curb Caps, 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

CERTIFICATIONS

UL 705 Listed for Electrical, UL Listed for Smoke Control Systems, UL 705 Supplement SC (formerly UL 762) Listed for Grease-Laden Air



Warehouse Exhaust



Fume Exhaust



Building Exhaust

ROOF VENTILATORS



AL

Standard Impellers



Optional Construction

BSB40

Upblast Tubeaxial Roof Ventilator, Belt Driven

- > 14 to 54 inches (355 mm ~ 1,375 mm) impeller diameters
- > Airflow to 67,400 CFM (114,500 m³/hour)
- > Static pressure to 1.5 inches w.g. (370 Pa)

Catalog: 620



AL

Standard Impellers

BSD53

Low Profile Upblast Roof Ventilator, Direct Drive

- > 14 to 48 inches (355 mm ~ 1,220 mm) impeller diameters
- > Airflow to 34,500 CFM (58,600 m³/hour)
- > Static pressure to 1 inch w.g. (250 Pa)

Catalog: 631



AL

Standard Impellers

BSB53

Low Profile Upblast Roof Ventilator, Belt Driven

- > 21 to 60 inches (535 mm ~ 1,525 mm) impeller diameters
- > Airflow to 60,800 CFM (103,300 m³/hour)
- > Static pressure to 1 inch w.g. (250 Pa)

Catalog: 631



AL

Standard Impellers

BSHD

Low Profile Hooded Roof Ventilator, Direct Drive

- > 14 to 48 inches (355 mm ~ 1,220 mm) impeller diameters
- > Airflow to 33,500 CFM (56,900 m³/hour)
- > Static pressure to 1 inch w.g. (250 Pa)

Catalog: 632

BSHB

Low Profile Hooded Roof Ventilator, Belt Driven

- > 21 to 54 inches (535 mm ~ 1,370 mm) impeller diameters
- > Airflow to 46,500 CFM (79,100 m³/hour)
- > Static pressure to 1 inch w.g. (250 Pa)

Catalog: 632



AL

Standard Impellers



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 m³/hour)
- > Static pressure to 0.75 inches w.g. (190 Pa)
- > AMCA licensed for Air and Fan Energy Index

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 m³/hour)
- > Static pressure to 0.75 inches w.g. (190 Pa)
- > AMCA licensed for Air and Fan Energy Index

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 m³/hour)
- > Static pressure to 0.75 inches w.g. (190 Pa)
- > AMCA licensed for Air and Fan Energy Index

Catalog: 616



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 m³/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 m³/hour)
- > Static pressure to 0.75 inches w.g. (190 Pa)
- > Available in exhaust or supply configurations

Catalog: 625



ACX

Centrifugal Roof Ventilators, Downblast, Belt Driven

- > 8.5 to 50.5 inches (220 mm ~ 1,285 mm) impeller diameters
- > Airflow to 28,700 CFM (48,800 m³/hour)
- > Static pressure to 3.25 inches w.g. (810 Pa)
- > AMCA licensed for Sound, Air and Fan Energy Index
- > UL 705 listed

Catalog: 102



ACXD

Centrifugal Roof Ventilators, Downblast, Direct Driven

- > 12.7 to 19.8 inches (325 mm ~ 505 mm) impeller diameters
- > Airflow to 5,600 CFM (9,500 m³/hour)
- > Static pressure to 1 inch w.g. (250 Pa)
- > AMCA licensed for Sound, Air and Fan Energy Index
- > UL 705 listed

Catalog: 102

ATB

Centrifugal Roof Ventilators, Upblast, Belt Driven

- > 24.80 to 49.21 inches (630 mm ~ 1,250 mm) impeller diameters
- > Airflow to 29,100 CFM (49,400 m³/hour)
- > Static pressure to 3.25 inches w.g. (810 Pa)
- > **AMCA licensed for Sound, Air and Fan Energy Index**
- > UL 705 listed

Catalog: 105



ATBR

Centrifugal Kitchen Roof Ventilators, Upblast, Belt Driven

- > 24.80 to 39.37 inches (630 mm ~ 1,000 mm) impeller diameters
- > Airflow to 20,700 CFM (35,200 m³/hour)
- > Static pressure to 3.25 inches w.g. (810 Pa)
- > **AMCA licensed for Sound, Air and Fan Energy Index**
- > UL 705 Supplement SC (formerly UL 762) listed for grease-laden air

Catalog: 105



AWX / AWXR

Centrifugal Wall/Kitchen Ventilators, Belt Driven

- > 24.80 to 31.5 inches (630 mm ~ 800 mm) impeller diameters
- > Airflow to 15,100 CFM (25,700 m³/hour)
- > Static pressure to 3.25 inches w.g. (810 Pa)
- > **AMCA licensed for Sound, Air and Fan Energy Index**
- > UL 705 listed / UL 705 Supplement SC (formerly UL 762) listed for grease-laden air

Catalog: 105



PC

Centrifugal Roof Exhausters, Downblast, Direct Drive

- > 8.375 to 12 inches (215 mm ~ 305 mm) impeller diameters
- > Airflow to 1,450 CFM (2,500 m³/hour)
- > Static pressure to 1 inch w.g. (250 Pa)
- > **AMCA licensed for Sound, Air and Fan Energy Index**
- > UL 705 listed

Catalog: 502



ROOF VENTILATORS



PCU

Centrifugal Roof/Wall Exhausters, Upblast, Direct Drive

- > 8.52 to 19.7 inches (220 mm ~ 500 mm) impeller diameters
- > Airflow to 4,350 CFM (7,390 m³/hour)
- > Static pressure to 2.65 inches w.g. (660 Pa)
- > [AMCA licensed for Sound, Air and Fan Energy Index](#)
- > UL 705 listed
- > UL 705 Supplement SC (formerly UL 762) listed for grease-laden air

Catalog: 505



PCUB

Centrifugal Roof/Wall Exhausters, Upblast, Belt Driven

- > 12.25 to 19.7 inches (315 mm ~ 500 mm) impeller diameters
- > Airflow to 4,460 CFM (7,590 m³/hour)
- > Static pressure to 3.7 inches w.g. (920 Pa)
- > [AMCA licensed for Sound, Air and Fan Energy Index](#)
- > UL 705 listed
- > UL 705 Supplement SC (formerly UL 762) listed for grease-laden air

Catalog: 505



AL STL
SS
Standard Impellers

 
Optional Construction

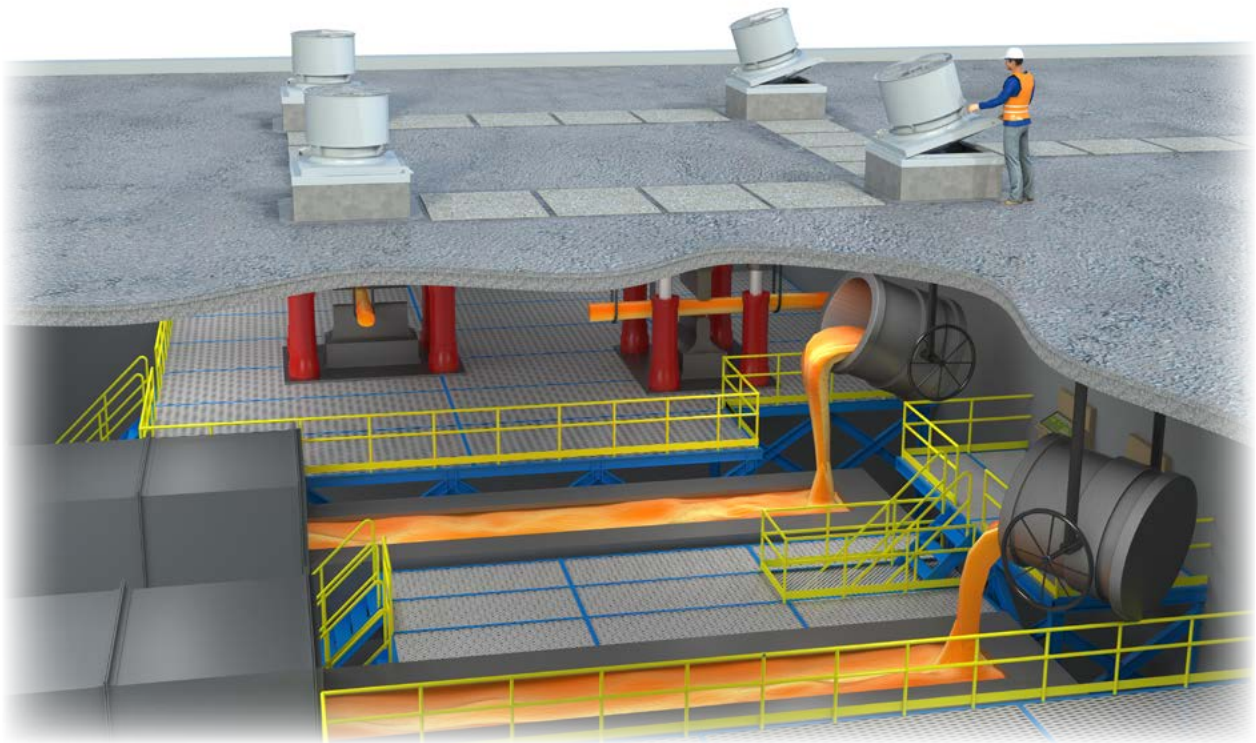
AFE

Fume Hood Inline Exhaust Fan

- > 9 to 54.25 inches (230 mm ~ 1,375 mm) impeller diameters
- > Airflow to 78,000 CFM (132,500 m³/hour)
- > Static pressure to 8 inches w.g. (1,990 Pa)
- > [AMCA licensed for Sound and Air](#)
- > UL 705 listed

Catalog: 390

ROOF VENTILATORS



Model B53 and Model D53 Foundry Application

AEROVENT 
INDUSTRIAL VENTILATION SYSTEMS



INLINE CENTRIFUGAL & MIXED FLOW FANS

AEROVENT
INDUSTRIAL VENTILATION SYSTEMS



General Ventilation



Paint Booth Exhaust



Plasma Exhaust

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.

IMPELLER 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, 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 Caps, Roof Curbs, Externally Mounted Conduit Boxes and Extended Lube Lines

OPTIONAL CONSTRUCTION


Composite
(see composite section)


High Temp


Special Materials


Easy Access


Spark Resistant or ATEX

CERTIFICATIONS

AMCA Sound/Air and FEI, UL 705 Listed for Electrical, UL 705 Supplement SC (formerly UL 762) Listed for Grease-Laden Air

AMX / AMXR / AMXSH

Mixed Flow Fans

- > 18.25 to 89 inches (465 mm ~ 2,260 mm) impeller diameters
- > Airflow to 160,000 CFM (271,800 m³/hour)
- > Static pressure to 8 inches w.g. (1,990 Pa)
- > **AMCA licensed for Sound, Air and Fan Energy Index**
- > UL 705 listed (AMX)
- > UL 705 Supplement SC (formerly UL 762) listed for grease-laden air (AMXR)
- > UL listed for smoke control systems (AMXSH)

Catalog: 330



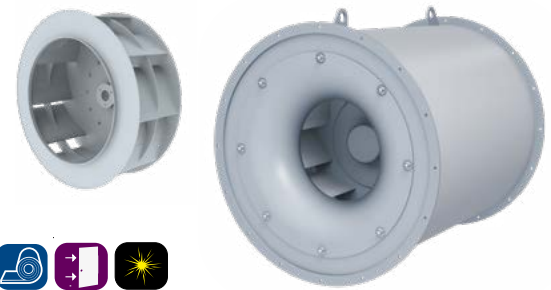
Optional Construction

CDD

Centaxial Fan, BIA Impeller, Direct Drive

- > 12.4 to 44.09 inches (315 mm ~ 1,120 mm) impeller diameters
- > Airflow to 50,600 CFM (86,000 m³/hour)
- > Static pressure to 7 inches w.g. (1,740 Pa)
- > **AMCA licensed for Sound, Air and Fan Energy Index**

Catalog: 337



Optional Construction

CBD

Centaxial Fan, BIA Impeller, Belt Driven

- > 12.4 to 70.88 inches (315 mm ~ 1,800 mm) impeller diameters
- > Airflow to 190,000 CFM (322,800 m³/hour)
- > Static pressure to 14 inches w.g. (3,480 Pa)
- > **AMCA licensed for Sound, Air and Fan Energy Index**

Catalog: 337



Optional Construction

SCDD / SCBD

Square Inline Centrifugal Fans, Direct Drive and Belt Driven

- > 8 to 40.25 inches (205 mm ~ 1,025 mm) impeller diameters
- > Airflow to 27,400 CFM (46,600 m³/hour)
- > Static pressure to 3.5 inches w.g. (870 Pa)
- > **AMCA licensed for Sound, Air and Fan Energy Index**
- > UL 705 listed

Catalog: 340



CENTRIFUGAL FANS

AEROVENT
INDUSTRIAL VENTILATION SYSTEMS



Recirculation Fans



Furnace Room Ventilation



Process Fans

CENTRIFUGAL FANS

Centrifugal fans are designed for a wide range of air volumes and pressures. With backward inclined, backward curved, backward inclined airfoil and forward curved impeller types, centrifugal fans 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.

IMPELLER TYPES

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

TYPICAL INDUSTRIES/APPLICATIONS

General HVAC (exhaust, filtration, return and supply air of commercial buildings), Automotive, Fertilizer, Metal & Mineral Processing, Pulp & Paper, Petrochemical, Pharmaceutical, Power, Water & Wastewater Treatment

COMMON ACCESSORIES

Access Door, Drain, Flanged Inlet/Outlet, Companion Flanges, Inlet/Outlet Screens, Shaft Guard, Bearing Guard, Belt Guard, Shaft Seal, Lube Lines, Piezometer Ring, Split Housing, Insulation Pins, Steel Wall or Aluminum Clad Insulated Housing, Inlet Box, Inlet & Outlet Dampers, External or Nested Inlet Vanes

OPTIONAL CONSTRUCTION



Composite
(see composite section)



High Temp



Special Materials



Easy Access



Spark Resistant or ATEX



Nominally Leak Tight



Split Housings

CERTIFICATIONS

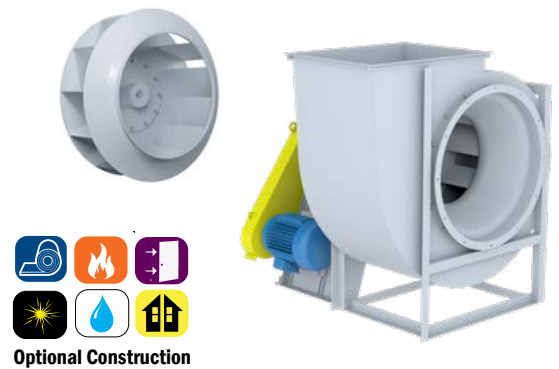
AMCA Sound/Air and FEI, UL 705 Listed for Electrical, UL 705 Supplement SC (formerly UL 762) Listed for Grease-Laden Air

CB-SW

Flat-Blade Backward Inclined Centrifugal Fan, SWSI

- > 12.25 to 98.25 inches (315 mm ~ 2,500 mm) impeller diameters
- > Airflow to 277,500 CFM (471,500 m³/hour)
- > Static pressure to 20 inches w.g. (4,970 Pa)
- > AMCA licensed for Sound, Air and Fan Energy Index

Catalog: 720



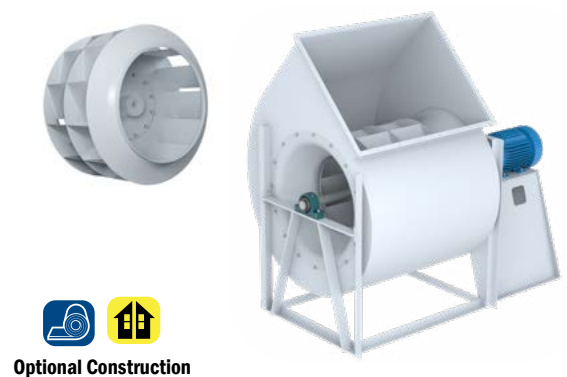
Optional Construction

CB-DW

Flat-Blade Backward Inclined Centrifugal Fan, DWDI

- > 12.25 to 89 inches (315 mm ~ 2,265 mm) impeller diameters
- > Airflow to 344,300 CFM (585,000 m³/hour)
- > Static pressure to 14 inches w.g. (3,480 Pa)
- > AMCA licensed for Sound, Air and Fan Energy Index

Catalog: 720



Optional Construction

CAE-SW

Airfoil Centrifugal Fan, SWSI

- > 12.25 to 98.25 inches (315 mm ~ 2,500 mm) impeller diameters
- > Airflow to 233,100 CFM (396,000 m³/hour)
- > Static pressure to 20 inches w.g. (4,970 Pa)
- > AMCA licensed for Sound, Air and Fan Energy Index
- > UL 705 listed

Catalog: 725



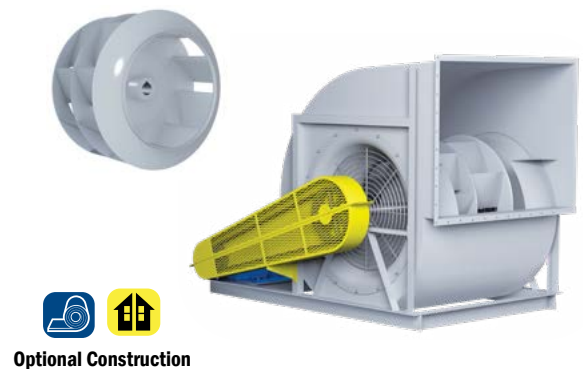
Optional Construction

CAE-DW

Airfoil Centrifugal Fan, DWDI

- > 12.25 to 98.25 inches (315 mm ~ 2,500 mm) impeller diameters
- > Airflow to 419,500 CFM (712,700 m³/hour)
- > Static pressure to 14 inches w.g. (3,480 Pa)
- > AMCA licensed for Sound, Air and Fan Energy Index
- > UL 705 listed

Catalog: 725



Optional Construction

CENTRIFUGAL FANS

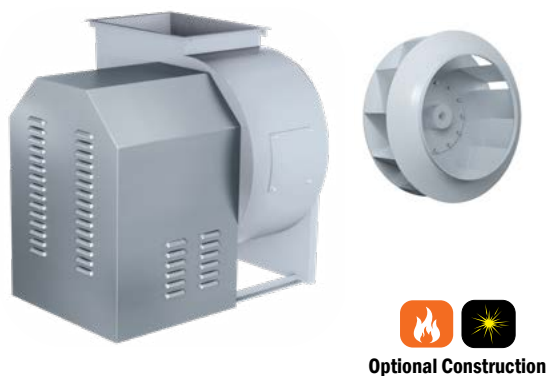


BAUB

Airfoil Utility Set

- > 12.25 to 36.5 inches (315 mm ~ 930 mm) impeller diameters
- > Airflow to 32,100 CFM (54,500 m³/hour)
- > Static pressure to 8 inches w.g. (1,990 Pa)
- > **AMCA licensed for Sound, Air and Fan Energy Index**

Catalog: 760

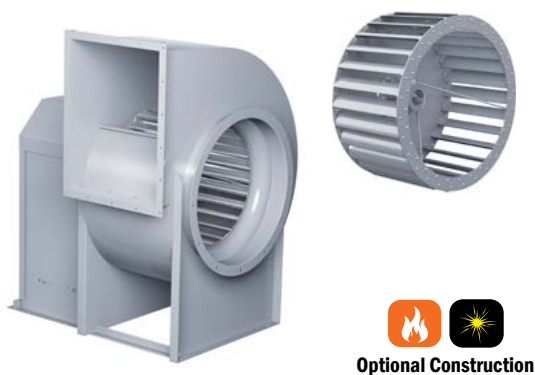


BIUB / BIUBR / BIUBSH

Backward Inclined Utility Sets

- > 10.5 to 60 inches (270 mm ~ 1,525 mm) impeller diameters
- > Airflow to 78,660 CFM (133,600 m³/hour)
- > Static pressure to 8 inches w.g. (1,990 Pa)
- > **AMCA licensed for Sound, Air and Fan Energy Index**
- > UL 705 listed (BIUB)
- > UL 705 Supplement SC (formerly UL 762) listed for grease-laden air (BIUBR)
- > UL listed for smoke control systems (BIUBSH)

Catalog: 760

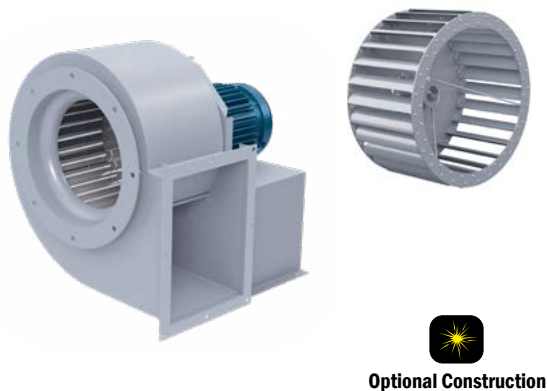


FCUB

Forward Curved Utility Set

- > 7.5 to 36.5 inches (195 mm ~ 930 mm) impeller diameters
- > Airflow to 29,100 CFM (49,400 m³/hour)
- > Static pressure to 5 inches w.g. (1,240 Pa)
- > **AMCA licensed for Air and Fan Energy Index**

Catalog: 760



DFC

Forward Curved Junior Utility Sets

- > 6 to 10.5 inches (155 mm ~ 270 mm) impeller diameters
- > Airflow to 2,100 CFM (3,600 m³/hour)
- > Static pressure to 1.75 inches w.g. (440 Pa)

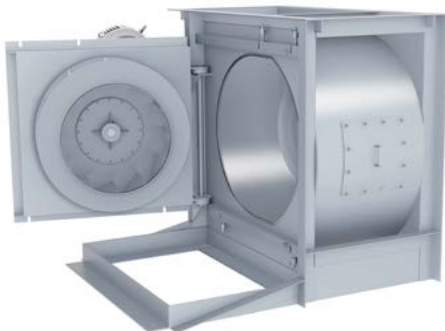
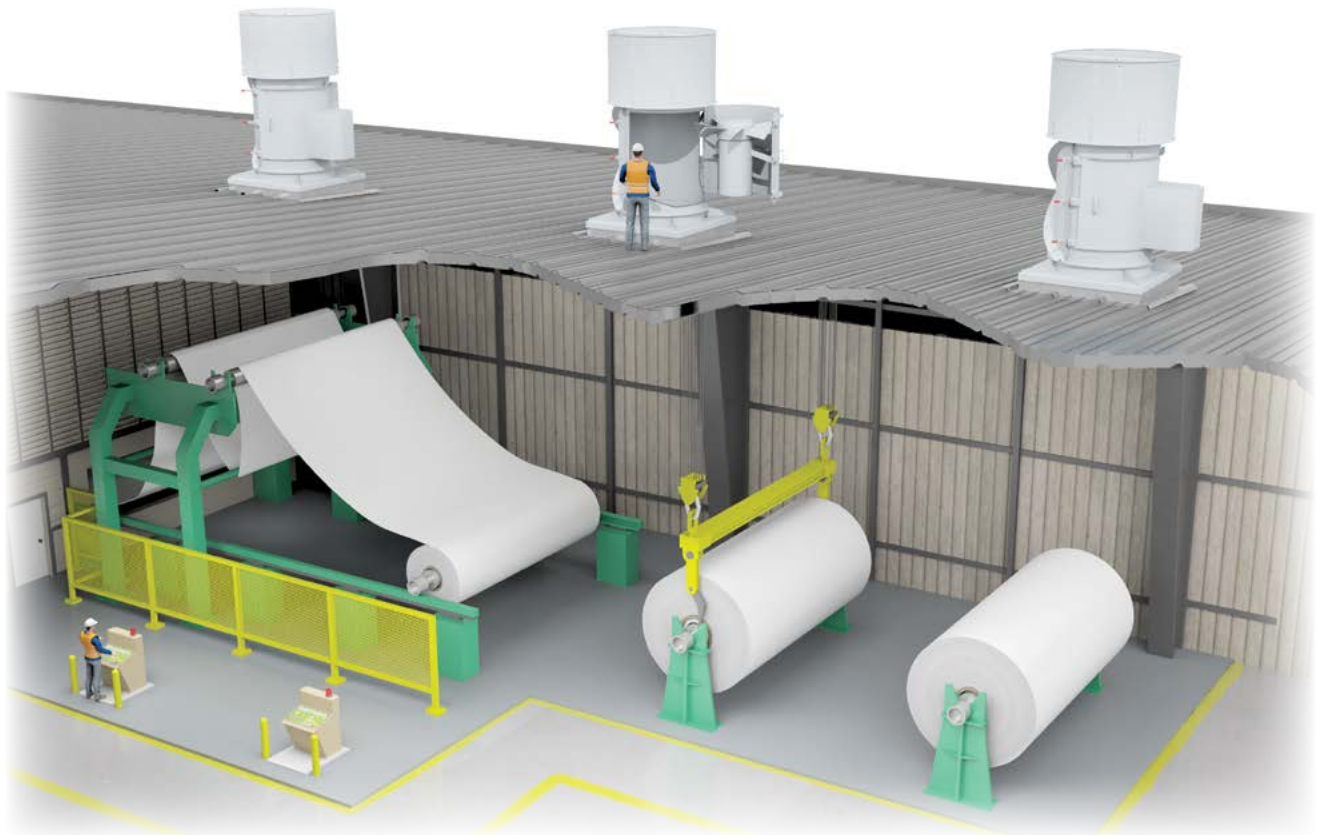
Catalog: 760



Centrifugal and Radial Bladed Swingout Construction



Easy access for frequent cleaning



Swingout Fans

Swingout fans are designed for frequent cleaning and provide full access to the impeller and inner casing of the fan. The entire impeller/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: Paint Finishing Systems, Plastic Extrusion, Paper Mills, Dust Collection



RADIAL BLADED FANS

AEROVENT
INDUSTRIAL VENTILATION SYSTEMS



Baghouse System Exhaust



Overspray Mist Remover

RADIAL BLADED FANS

Radial bladed fans provide a solution for a wide range of industrial applications. The heavy-gauge, all-welded construction has earned it the reputation of being the “workhorse” of the industry – a design proven by years of service handling dirty, abrasive, sticky or bulky particulate-laden airstreams. With multiple sizes and materials available there is a fan available to meet the needs of any application.

IMPELLER TYPES

Fabricated Paddle Impellers, Wool Impellers with Back Plate and Heavy Gusseted Bulk Material Handling Impellers, Fiberglass, Cast Aluminum Radial or Backward Curved

TYPICAL INDUSTRIES/APPLICATIONS

Aerospace, Agriculture, Air Pollution Control, Asphalt, Automotive, Boilers, Brick, Cement, Chemical, Coal, Composting, Ethanol, Foundry, General Manufacturing, Glass, Industrial Processes, Metal & Minerals, Mining, Nuclear, OEM, Petrochemical, Pharmaceutical, Power Generation, Pulp & Paper, Recycling, Textile, Water Treatment

COMMON ACCESSORIES

Access Door, Belt Guards, Drain, Inlet/Outlet Companion Flange, Inlet/Outlet Damper, Inlet Filter, Inlet/Outlet Flange, Inlet/Outlet Screen, Inlet/Outlet Silencer, Shaft & Bearing Guard, Shaft Seal, Split Housing, Vibration Isolation, Special Coatings, Insulated Housings

OPTIONAL CONSTRUCTION



High
Temp



Special
Materials



Easy
Access



Spark Resistant
or ATEX



Nominally
Leak Tight



Split
Housings

CERTIFICATIONS

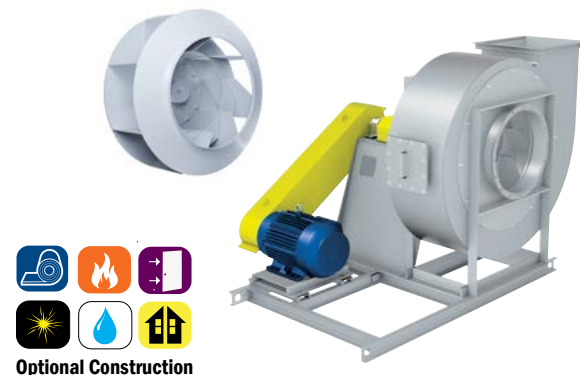
AMCA Air and FEI

MHA

Industrial Radial Bladed Fan, Air Handling Impeller

- > 12.25 to 104.25 inches (315 mm ~ 2,650 mm) impeller diameters
- > Airflow to 141,800 CFM (240,900 m³/hour)
- > Static pressure to 46 inches w.g. (7,960 Pa)
- > AMCA licensed for Air and Fan Energy Index

Catalog: 710



MHO / MHR

Industrial Radial Bladed Fan, Paddle Impeller

- > 8.75 to 104.25 inches (225 mm ~ 2,650 mm) impeller diameters
- > Airflow to 141,800 CFM (240,900 m³/hour)
- > Static pressure to 46 inches w.g. (11,440 Pa)
- > AMCA licensed for Air and Fan Energy Index

Catalog: 710

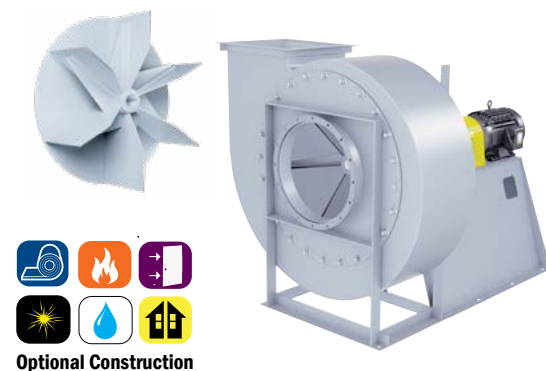


MHW

Industrial Radial Bladed Fan, Back Plate Wool Impeller

- > 8.75 to 104.25 inches (225 mm ~ 2,650 mm) impeller diameters
- > Airflow to 141,800 CFM (240,900 m³/hour)
- > Static pressure to 46 inches w.g. (11,440 Pa)
- > AMCA licensed for Air and Fan Energy Index

Catalog: 710

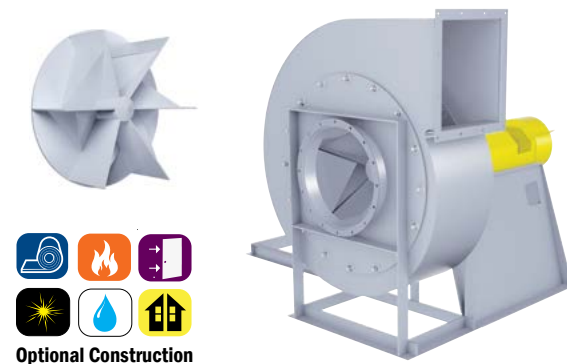


MHP

Industrial Radial Bladed Fan, Paper Handling Impeller

- > 19 to 45 inches (485 mm ~ 1,145 mm) impeller diameters
- > Airflow to 26,500 CFM (45,000 m³/hour)
- > Static pressure to 32 inches w.g. (7,960 Pa)

Catalog: 710





PRESSURE BLOWERS

AEROVENT
INDUSTRIAL VENTILATION SYSTEMS



Chemical Extraction



Dust Collection

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.

IMPELLER TYPES

Backward Curved, Backward Inclined & Radial Fabricated Impellers 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

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



Spark Resistant or ATEX



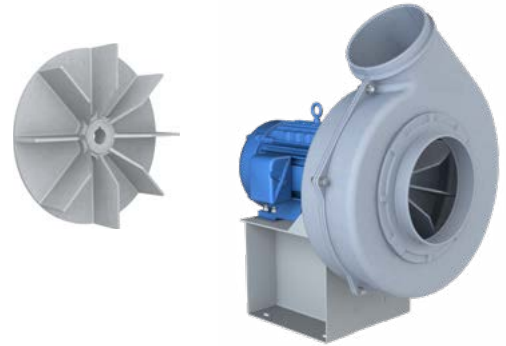
Nominally Leak Tight

CA / CABD

Cast Aluminum Pressure Blower,
Direct Drive and Belt Driven

- > 7 to 18 inch Housing Sizes (180 mm ~ 460 mm)
- > 4 to 10 inch Inlet Diameters (105 mm ~ 255 mm)
- > 8 to 18 inches (205 mm ~ 460 mm) impeller diameters
- > Airflow to 2,800 CFM (4,800 m³/hour)
- > Static pressure to 22 inches w.g. (5,470 Pa)

Catalog: 916



HPBA / HPBS

Turbo Pressure Blower, Aluminum and Steel Impeller

- > 14.5 to 38 inches (370 mm ~ 965 mm) impeller diameters
- > Airflow to 20,000 CFM (34,000 m³/hour)
- > Static pressure to 128 inches w.g. (31,820 Pa)

Catalog: 914



Optional Construction

PB

Pressure Blower, Radial Blade

- > 8 to 12 inches (205 mm ~ 305 mm) impeller diameters
- > Airflow to 1,275 CFM (2,200 m³/hour)
- > Static pressure to 10 inches w.g. (2,490 Pa)

Catalog: 904



Optional Construction



PLUG AND PLENUM FANS

AEROVENT
INDUSTRIAL VENTILATION SYSTEMS



Paint Booth



Baking Oven

PLUG AND PLENUM FANS

Plenum fans are designed for general HVAC applications where large volumes of clean air are required at low to moderate pressures. Backward inclined airfoil impellers provide high efficiency, performance and sound characteristics needed for the most stringent HVAC applications. Housed or open designs as well as belt or direct drive, plenum fans provide the flexibility to match the performance and application at the highest efficiency. Plug Fans offer great versatility for complex system configurations. Equipped with a gusseted mounting panel, they are mounted directly to the plenum wall separating the motor and drive components from the process air. Plug fans provide high efficiency recirculation air with the benefit of easy installation and removal.

IMPELLER TYPES

Backward Inclined Airfoil (9-blade or 12-blade), Flat-Bladed Backward Curved

TYPICAL INDUSTRIES/APPLICATIONS

Air Curtains, Automotive, Dyers, Freezers, High Temperature, Industrial Cooling and Ovens, Kilns, Process Applications, Product Cooling, Re-Circulation, Air Heaters, Ceiling, Wall and Floor Panel Plenums, Degreasers, Dryers, Dust Collectors, Evaporators, Packaged Air Handlers, Parts Washers, Penthouses, Smoke Houses, Space Heaters, Spray Booths and other High Temperature Applications, Air-Conditioning/Heating Units, Air-Make-Up Units, Clean-Room Filtration Systems, Supply Air Systems, General HVAC (exhaust, filtration, return and supply air of commercial buildings and air handling units)

COMMON ACCESSORIES

Belt Guards, Bearing Guards, Extended Lube Lines, Forklift Lifting Tubes, Integral Inlet Cone, Insulated Plug, Shaft Cooler (Slinger), Variable Inlet Vanes, Housings, Inlet/Outlet Screen, Piezometer Ring Airflow Measurement System, Pressure Transducers, Protective Enclosure, Special Coatings, Vibration Isolation, Aero Acoustic Diffuser™

OPTIONAL CONSTRUCTION



**High
Temp**



**Special
Materials**



**Spark Resistant
or ATEX**

CERTIFICATIONS

AMCA Sound/Air and FEI

CPG

High Efficiency Plug Fan, Backward Curved

- > 12.4 to 49.21 inches (315 mm ~ 1,250 mm) impeller diameters
- > Airflow to 76,000 CFM (129,100 m³/hour)
- > Static pressure to 12 inches w.g. (2,980 Pa)

Catalog: 755



Optional Construction



CPLF / CPLFN

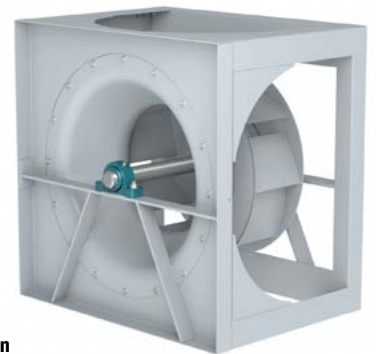
Plenum Fan, Airfoil Impeller, 9-Blades

- > 12.25 to 89 inches (315 mm ~ 2,265 mm) impeller diameters
- > Airflow to 280,000 CFM (475,700 m³/hour)
- > Static pressure to 10 inches w.g. (2,490 Pa)
- > AMCA licensed for Sound, Air and Fan Energy Index

Catalog: 735



Optional Construction



CPLQ / CPLQN

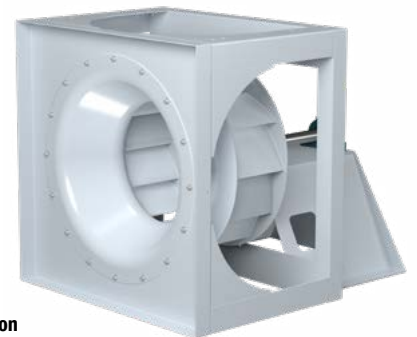
Plenum Fan, Airfoil Impeller, 12-Blades

- > 12.25 to 89 inches (315 mm ~ 2,265 mm) impeller diameters
- > Airflow to 280,000 CFM (475,700 m³/hour)
- > Static pressure to 12 inches w.g. (2,980 Pa)
- > AMCA licensed for Sound, Air and Fan Energy Index

Catalog: 735



Optional Construction





FIBERGLASS FANS

AEROVENT
INDUSTRIAL VENTILATION SYSTEMS



**Odor Control
Wastewater Treatment**



Scrubber Fan



**Odor Control
Water Treatment**

FIBERGLASS FANS

Fiberglass fans are specifically designed for the exhaust of moisture-laden, corrosive, or chemically contaminated air. All fans feature molded fiberglass housings that are virtually impossible to dent, crack or break. FRP offers a more economical solution compared to stainless steel or other exotic alloys. Multiple impeller types and materials are available to meet any corrosive process requirements while maintaining quiet operation and high efficiency.

IMPELLER TYPES

Single Thickness Backward Inclined, Airfoil, Open Radial, Axial

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

OSHA Belt Guards, Shaft and Bearing Guards, Inlet and Outlet Guards, Weather Covers, Shaft Seals, Access Doors, Inspection Doors, Cleanout Doors, Housing Drains, Flanged Inlets and Outlets, Dampers and Shutters, Unitary Bases

OPTIONAL CONSTRUCTION

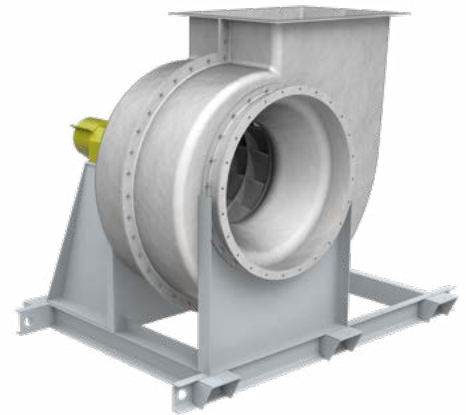
Static Grounding, ASTM D4167 Construction, Stainless Steel Fan Shaft, Synthetic Surface Veil, Fire Retardant Resin, Vinyl Ester

AEROVENT
INDUSTRIAL VENTILATION SYSTEMS

BCF**Backward Curved High Pressure Composite Fan**

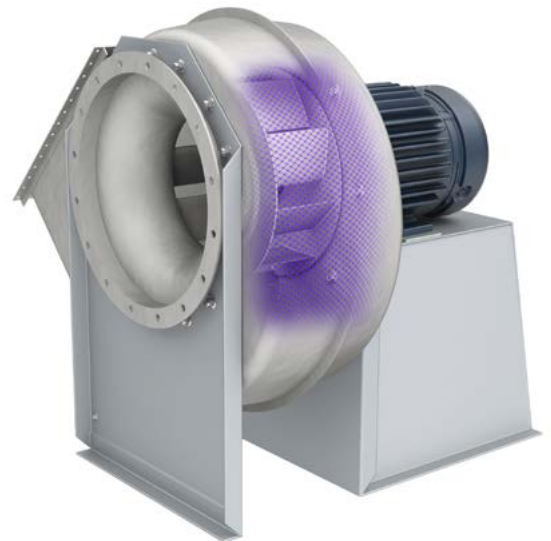
- > 16.5 to 60 inches (420 mm ~ 1,525 mm) impeller diameters
- > Airflow to 151,000 CFM (256,500 m³/hour)
- > Static pressure to 34 inches w.g. (8,450 Pa)
- > [AMCA licensed for Sound, Air and Fan Energy Index](#)

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.

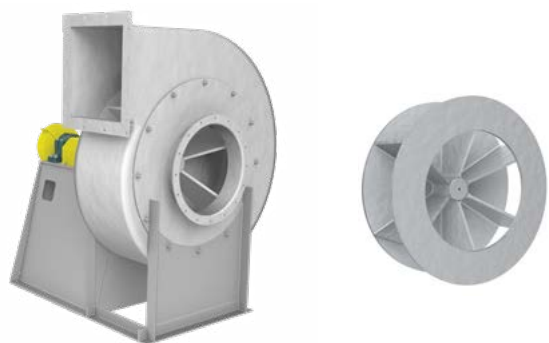
For applications with highly corrosive chemicals and where safety of the operating personnel and the surrounding equipment is the highest concern, Aerovent has developed FRP housings for the BCF fan designed to contain the impeller in the event of a catastrophic failure. With some of the fans operating 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 IMPELLER DESIGN**

Aerovent's BCF fan is available with a carbon fiber impeller 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 impeller allows for lower weight and moment of inertia (WR²). This allows for less stress on the motor and drive package (belt driven).





RBF

Fiberglass Radial Blade Centrifugal Fan

- > 10.63 to 57.5 inches (270 mm ~ 1,465 mm) impeller diameters
- > Airflow to 38,300 CFM (65,100 m³/hour)
- > Static pressure to 18 inches w.g. (4,480 Pa)
- > **AMCA licensed for Air and Fan Energy Index**

Catalog: 750

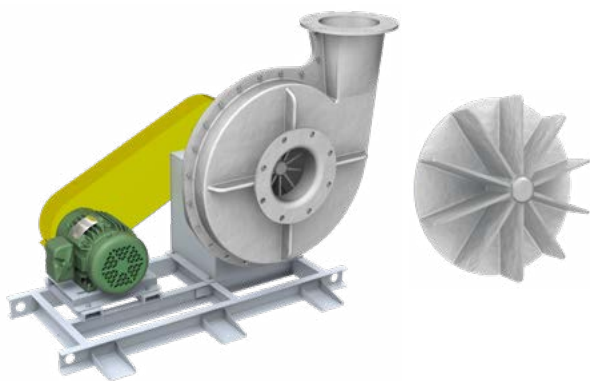


SWCBF

Fiberglass SW Airfoil Fan

- > 12 to 25 inches (305 mm ~ 635 mm) impeller diameters
- > Airflow to 17,000 CFM (28,800 m³/hour)
- > Static pressure to 13.5 inches w.g. (3,360 Pa)

Catalog: 743



HPBF

Fiberglass High Pressure Blower, Radial Blade

- > 18 to 28 inches (460 mm ~ 715 mm) impeller diameters
- > Airflow to 4,700 CFM (8,000 m³/hour)
- > Static pressure to 36 inches w.g. (8,950 Pa)

Catalog: 950



CBDF

Fiberglass Inline Centrifugal Fan

- > 12.4 to 25 inches (315 mm ~ 635 mm) impeller diameters
- > Airflow to 15,200 CFM (25,800 m³/hour)
- > Static pressure to 7 inches w.g. (1,740 Pa)

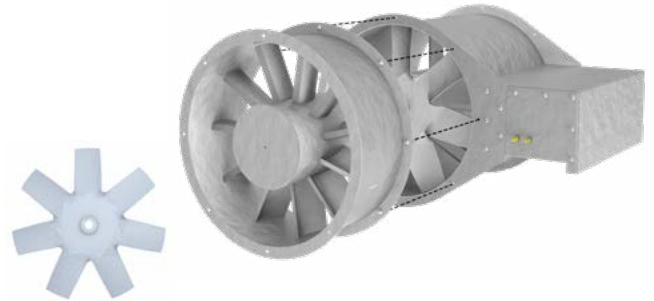
Catalog: 360

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 m³/hour)
- > Static pressure to 4 inches w.g. (990 Pa)

Catalog: 185

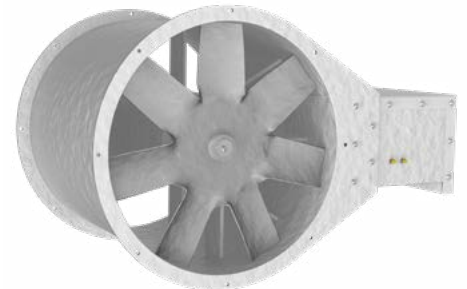


TFBD

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 m³/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 m³/hour)
- > Static pressure to 1.5 inches w.g. (370 Pa)

Catalog: 185

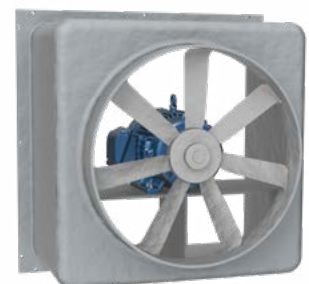


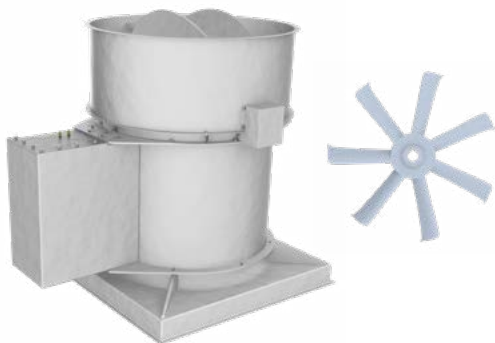
FDP

Fiberglass Panel Fan, Direct Drive

- > 12 to 48 inches (305 mm ~ 1,220 mm) impeller diameters
- > Airflow to 41,900 CFM (71,200 m³/hour)
- > Static pressure to 1 inch w.g. (250 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 m³/hour)
- > Static pressure to 1.5 inches w.g. (370 Pa)

Catalog: 185



AWA / AWAB

Fiberglass Upblast Centrifugal Roof Ventilators, Direct Drive and Belt Driven

- > 7 to 40 inches (180 mm ~ 1,020 mm) impeller diameters
- > Airflow to 21,500 CFM (36,500 m³/hour)
- > Static pressure to 2 inches w.g. (500 Pa)

Catalog: 977



AHA / AHAB

Fiberglass Centrifugal Wall Ventilators, Direct Drive and Belt Driven

- > 7 to 30 inches (180 mm ~ 765 mm) impeller diameters
- > Airflow to 9,800 CFM (16,700 m³/hour)
- > Static pressure to 1 inch w.g. (250 Pa)

Catalog: 977



AEROVENT
INDUSTRIAL VENTILATION SYSTEMS

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 Impellers, Lifting Eyes and Special Coatings



PUM

Utility Mancooler

- > 16 to 48 inches (410 mm ~ 1,220 mm) impeller diameters
- > Airflow to 41,200 CFM (70,000 m³/hour)

Catalog: 264



AEROVENT
INDUSTRIAL VENTILATION SYSTEMS



AIR MAKE-UP UNITS

AEROVENT
INDUSTRIAL VENTILATION SYSTEMS

AIR MAKE-UP UNITS

Air make-up units are 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.

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 Bird Screen, Mild Weather Thermostat, Flame Relay Remote Reset

OPTIONAL CONSTRUCTION

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

CERTIFICATIONS

Models AEHP/AEHV:

- ANSI Z83.18a-2001 for 85/15 outside/return air models
- ANSI Z83.4a-2001 and CSA 3.7a-2001 for constant 100% or variable outside air models
- UL 1995 for models with fluid or steam coils

Model ADH:

- ETL listed to meet UL-508A for electrical safety



Heavy Industrial Supply Air



Door Air Heaters



Space Heating and Cooling

AEHP

Direct-Fired Gas, Pioneer Series

- > Capacities to 130,000 CFM (220,871 m³/hour)
- > Capacities to 17,000,000 Btu/hr
- > External static pressure to 4 inches w.g. (995 Pa)

Catalog: 875

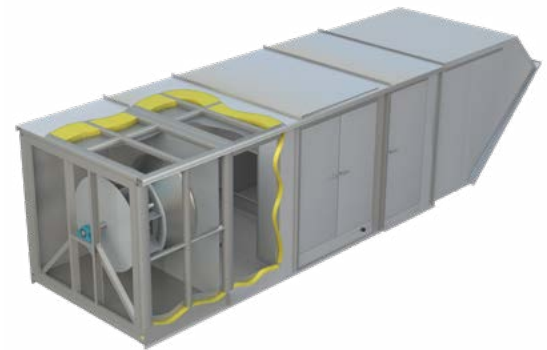


AEHV

Direct-Fired Gas, Voyager Series

- > Capacities to 130,000 CFM (220,871 m³/hour)
- > Capacities to 17,000,000 Btu/hr
- > External static pressure to 4 inches w.g. (995 Pa)

Catalog: 875



ADH

Steam-Air Make-Up Units

- > Capacities to 6,000 CFM (10,200 m³/hour) with 100°F temp rise (temperate climates)
- > Capacities to 6,000 CFM (10,200 m³/hour) with 130°F temp rise (cold climates)

Catalog: 895





OEM PRODUCTS FANS / IMPELLERS / COMPONENTS

AEROVENT
INDUSTRIAL VENTILATION SYSTEMS



Industrial Bake Ovens



Turbine Cooling



Paint Finishing Systems

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.

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

AEROVENT
INDUSTRIAL VENTILATION SYSTEMS

AHX

Adjustable Pitch Impeller

- > 54 to 144 inches (1,375 mm ~ 3,660 mm) impeller diameters
- > Airflow to 328,600 CFM (558,300 m³/hour)
- > Static pressure to 1.5 inches w.g. (370 Pa)

Catalog: 524



AHX-E

Adjustable Pitch 'E' Impeller

- > 14 to 48 inches (355 mm ~ 1,220 mm) impeller diameters
- > Airflow to 50,000 CFM (85,000 m³/hour)
- > Static pressure to 2.5 inches w.g. (620 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 m³/hour)
- > Static pressure to 2 inches w.g. (500 Pa)

Catalog: 567



CPLF / CPLFN / CPLQ / CPLQN

Plenum Fans, Airfoil Impeller: 9-Blade and 12-Blade Designs

- > 12.25 to 89 inches (315 mm ~ 2,265 mm) impeller diameters
- > Airflow to 280,000 CFM (475,700 m³/hour)
- > Static pressure to 12 inches w.g. (2,980 Pa)
- > **AMCA licensed for Sound, Air and Fan Energy Index**

Catalog: 735



CPG

High Efficiency Plug Fan, Backward Curved

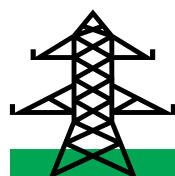
- > 12.4 to 49.21 inches (315 mm ~ 1,250 mm) impeller diameters
- > Airflow to 76,000 CFM (129,100 m³/hour)
- > Static pressure to 12 inches w.g. (2,980 Pa)

Catalog: 755



GRIDSMART™ VFDs

AEROVENT
INDUSTRIAL VENTILATION SYSTEMS



GRIDSMART™

VARIABLE FREQUENCY DRIVES

By Aerovent

GridSmart™ VFDs

Aerovent is proud to offer our new line of GridSmart™ Variable Frequency Drives (VFDs). 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

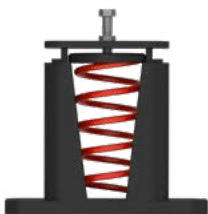
- 5-150 HP (230V)
- 5-250 HP (460V)



Model L510

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

AEROVENT
INDUSTRIAL VENTILATION SYSTEMS



Floor Spring Isolators



Floor RIS Isolators



Ceiling Hung Spring Isolators



Ceiling Hung RIS Isolators

WEATHERPROOF SILENCER



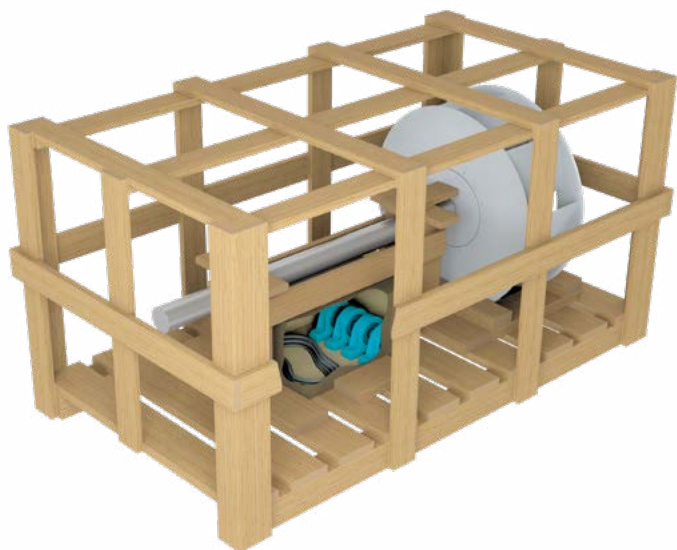
Weatherproof Silencer

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

AEROVENT 
INDUSTRIAL VENTILATION SYSTEMS

SPARE PARTS



Spare Parts

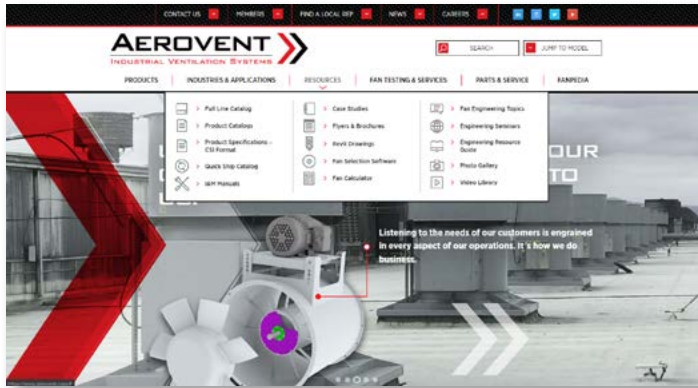
For Process Critical Applications

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
- > Impellers
- > Shafts
- > Shaft Seals
- > Safety Guards

Website Resources

Our website offers a wealth of knowledge, including product catalogs, installation manuals and a wide variety of fan-related engineering information for more our wide variety of products. Learn more at aerovent.com.



Product Catalogs



Case Studies



I&M Manuals



Revit Files



Product Specifications



Fan Calculator



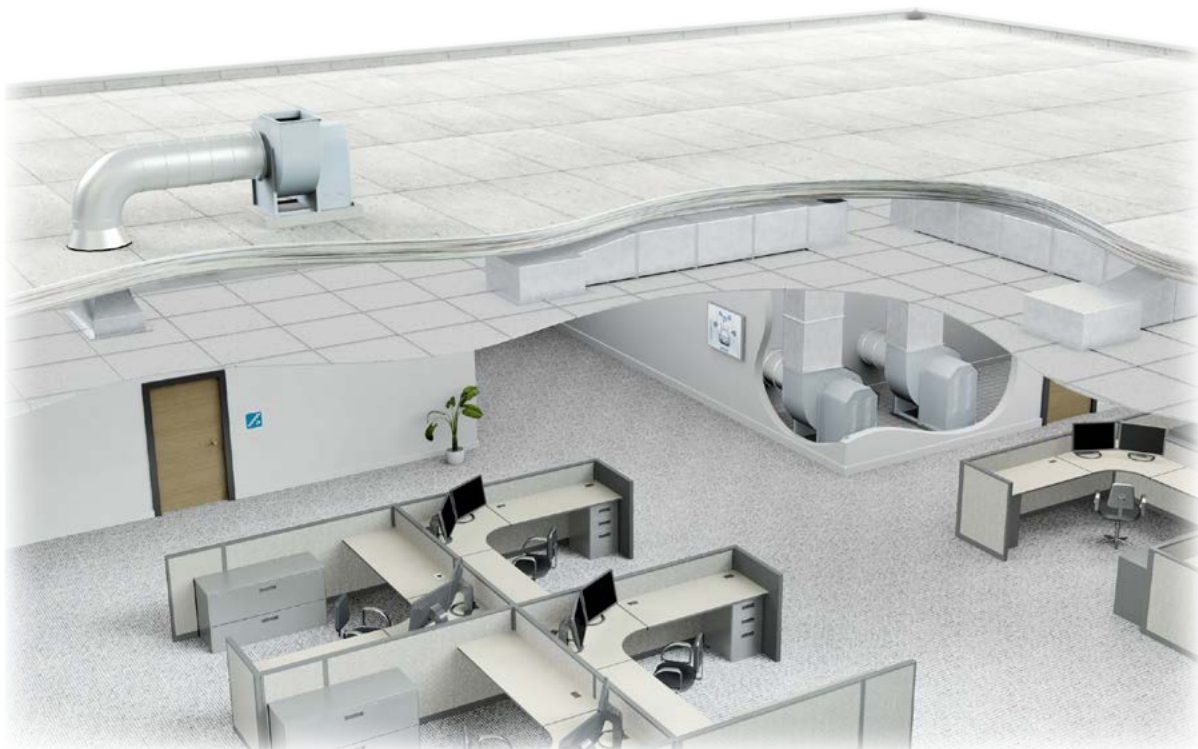
Fan Engineering Topics



Video Library



Installation Photo Gallery



Office Supply and Exhaust Application

AXIAL FANS

pages 12-17



ATA



BSTA



BSTAB



TA



TABD



TSBD



PTA



PTABD



VJ



VJBD



BTABD



VP



VPBD



VSBD



VW / VWBD

CENTRIFUGAL FANS

pages 28-31



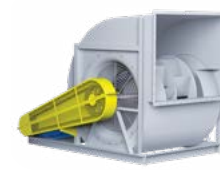
CB-SW



CB-DW



CAE-SW



CAE-DW



BIUB / BIUBR
BIUBSH



BAUB



FCUB



DFC

INLINE CENTRIFUGAL & MIXED FLOW FANS

pages 26-27



AMX / AMXR
AMXSH



CDD



CBD



SCDD / SCBD

PRESSURE BLOWERS

pages 34-35



CA / CABD



HPBA / HPBS



PB

FIBERGLASS FANS

pages 38-42



BCF



RBF



SWCBF



HPBF



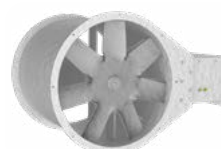
FDP



FRV



FBD



TFBD / VTFBD



CBDF



AWA / AWAB



AHA / AHAB

WALL MOUNTED FANS

pages 8-11



DDP



BP



DDR



BR



BSBP



BSDDP

ROOF VENTILATORS

pages 19-25



AFE



BD40C



D53 / B53



HD53 / HB53



BSB40



BSD53 / BSB53



BSHD / BSHB



ACX / ACXD



ATB / ATBR



AWX / AWXR



PC



PCU / PCUB

RADIAL BLADED FANS

pages 32-33



MHA



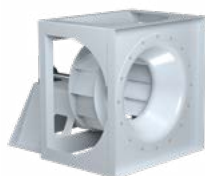
MHO / MHR



MHW / MHP

PLUG & PLENUM FANS

pages 36-37



CPLQ / CPLQN



CPLF / CPLFN



CPG

FILTERED SUPPLY FANS

page 18



FSWD / FSWB



FSR

MANCOOLERS

page 43



PUM

AIR MAKE-UP UNITS

pages 44-45



AEHP



AEHV



ADH

WALL MOUNTED FANS | TUBEAXIAL & VANEAXIAL FANS | CENTRIFUGAL FANS & BLOWERS
ROOF VENTILATORS | AIR HEATERS & COOLERS | AIR MAKE-UP | FIBERGLASS FANS | CUSTOM FANS



AEROVENT 
INDUSTRIAL VENTILATION SYSTEMS

AEROVENT.COM

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