WHO WE ARE

Twin City Fan & Blower is an industry-leading designer and manufacturer of high-quality custom, semi-custom and standard fans ranging from heavy-duty industrial process fans to a comprehensive line of commercial supply and exhaust fans for the HVAC plan-and-spec market. We have completed thousands of successful installations worldwide and have a proven track record for tackling the most technically complex and unique applications.

With the engineering and manufacturing capabilities to accommodate virtually every conceivable application, Twin City Fan & Blower has the knowledge and expertise to meet any requirement. Our commitment to quality and dedication to customers has been our philosophy since the company started in 1974. As a result, Twin City Fan & Blower continues to grow and provide fans throughout the world — with ten facilities in the United States and expanded manufacturing and service operations in Brazil, Singapore, India, China and Europe.

FAN SELECTION SOFTWARE

Twin City Fan & Blower’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.
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### TCF.COM RESOURCES

Our website offers a wealth of knowledge, including product catalogs, installation manuals and a wide variety of fan-related engineering information for more than 200 product lines. Learn more at tcf.com.
We pride ourselves on the fact that we can support an extremely diverse range of industries on a global level by delivering products that meet our customer’s exact requirements. Not only are we known as a one-stop-shop for all industrial and commercial air moving applications, but Twin City Fan & Blower has earned a reputation for having the quickest turnaround and delivery times in the entire fan industry. Below is a condensed list of the industries and markets we support with a full line of products.


Commercial: Commercial Buildings, Laboratory & Fume Hood Exhaust, Schools, Hospitals, Hotels, Restaurants, Institutional Facilities, Retail Shopping Centers, Sports Arenas and Stadiums, Airports, Data Centers, Emergency Smoke Control, Warehouses and Distribution Centers and HVAC OEMs

Foundries

Commercial Buildings

Nuclear Facilities

Hospitals & Clean Rooms
CUSTOMIZED SOLUTIONS

Our unique mass-customized approach to manufacturing ensures that you are not only getting the fan elements your project demands — you’re getting a complete package of customized solutions. “Mass-customized” means you get cost efficiencies from an incredibly broad range of standard products, plus project-specific flexibility that allows us to build on and customize our exceptional offerings. Check out our Case Studies library at www.tcf.com/resources/case-studies to read about some of the customized solutions we have developed for our customers.

We 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 fiberglass, stainless steel, aluminum, hot-dip galvanized steel, abrasion and spark resistant alloys, along with numerous protective coatings.

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.
With the most sophisticated research and development testing laboratories in the industry, only Twin City Fan & Blower has the collective experience and knowledge needed to tackle the most technically complex testing requirements for the most demanding environments.

The scope of Twin City Fan & Blower’s testing capabilities is very broad and 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
START-UP SERVICES

Having the peace of mind that your fan is installed and operating properly prior to start-up is crucial. Twin City Fan & Blower 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, Twin City Fan & Blower 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 and Sheave Laser Alignment
- Installation Assistance
- Commissioning

FIELD SERVICES

Keeping existing fans operational is crucial to any business. At Twin City Fan & Blower, 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.

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

CENTRIFUGAL FANS
Centrifugal fans are designed for general HVAC and industrial applications where large volumes of clean air are required at low to moderate 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-width or double-width configurations, which allow for even higher volumes of air.

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

TYPICAL INDUSTRIES
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
High Temperature, Swingout, Split Housings, Special Materials, Spark Resistant Construction (Type A, B and C), Nominally Leak-Tight Construction, ATEX

CERTIFICATIONS
AMCA Sound/Air and FEI, UL 705 Listed for Electrical
BAE-SW
AIRFOIL IMPELLER, SWSI
> 12.25 to 98.25 inches (315 mm to 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 listing available
> **Typical Applications:** Aeration, Forced Draft, Exhaust Applications, Air Handling Units, Process Cooling, Clean Rooms, Explosion-Proof Processes, General HVAC, Green/LEED, Filtration Systems

BAE-DW
AIRFOIL IMPELLER, DWDI
> 12.25 to 98.25 inches (315 mm to 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 listing available
> **Typical Applications:** Aeration, Air Handling Units, Exhaust Applications, Explosion-Proof Processes, Clean Rooms, General HVAC, Green/LEED

BAF-SW
AIRFOIL IMPELLER, SWSI
> 12.25 to 98.25 inches (315 mm to 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
> UL 705 listing available
> **Typical Applications:** Air Handling Units, Exhaust Applications, Explosion-Proof Processes, General HVAC, Green/LEED

BAF-DW
AIRFOIL IMPELLER, DWDI
> 12.25 to 98.25 inches (315 mm to 2,500 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
> UL 705 listing available
> **Typical Applications:** Air Handling Units, Exhaust Applications, Explosion-Proof Processes, General HVAC, Green/LEED
**BCS**
**FLAT-BLADED BACKWARD INCLINED IMPELLER, SWSI**

- > 12.25 to 98.25 inches (315 mm to 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
- > UL 705 listing available
- > **Typical Applications**: Air Pollution Control, High Temperature, Chemical/Corrosive Environments, Exhaust, Water Treatment, Filtration/Dust Collection, Explosion-Proof Processes, General HVAC, Green/LEED, General Manufacturing, Drying Applications

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**BC-DW**
**FLAT-BLADED BACKWARD INCLINED IMPELLER, DWDI**

- > 12.25 to 89 inches (315 mm to 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 Air and Fan Energy Index
- > UL 705 listing available
- > **Typical Applications**: Exhaust Applications, Dust Collection, Explosion-Proof Processes, General HVAC, Green/LEED

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**BCS**
**BACKWARD CURVED IMPELLER, HIGH PRESSURE/HIGH VOLUME**

- > 16.5 to 89 inches (420 mm to 2,265 mm) impeller diameters
- > Airflow to 280,000 CFM (475,700 m³/hour)
- > Static pressure to 40 inches w.g. (9,950 Pa)
- > AMCA licensed for Sound, Air and Fan Energy Index
- > **Typical Applications**: Air Pollution Control, High Temperature, Chemical/Corrosive Environments, Exhaust, Water Treatment, Filtration/Dust Collection, Explosion-Proof Processes, General HVAC, Green/LEED, General Manufacturing, Drying Applications

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**BCSF**
**BACKWARD CURVED IMPELLER, HIGH PRESSURE COMPOSITE FAN**

- > 16.5 to 60 inches (420 mm to 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
- > **Typical Applications**: Chemical/Corrosive Environments, Marine, Water Treatment, Exhaust Applications, Process Air, Explosion-Proof Processes, Air Pollution Control, High Moisture Environments, General HVAC
**BAFF**
BACKWARD INCLINED AIRFOIL IMPELLER, COMPOSITE FAN

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

**Typical Applications:** Chemical/Corrosive Environments, Marine, Water Treatment, Exhaust Applications, Process Air, Explosion-Proof Processes, Air Pollution Control, High Moisture Environments, General HVAC

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**TCBI**
FLAT-BLADED BACKWARD INCLINED CENTRIFUGAL FAN, SWSI

- 14.19 to 22.56 inches (360 mm to 575 mm)
- 3 HP to 30 HP
- Airflow to 14,400 CFM (24,470 m³/hour)
- Static pressures to 18 inches w.g. (4,480 Pa)

**Typical Application:** Dust Collection

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**NFC-SW, NFC-DW, FC-DW**
FORWARD CURVED CENTRIFUGAL IMPELLER, SWSI & DWDI

- 12.25 to 49 inches (315 mm to 1,245 mm) impeller diameters
- Airflow to 96,500 CFM (164,000 m³/hour)
- Static pressure to 4 inches w.g. (990 Pa)

**Typical Applications:** Air Handling Units, Exhaust Applications, Energy Recovery, Explosion-Proof Processes, General HVAC, High Temperature, Green/LEED

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**EASY ACCESS & SPLIT HOUSINGS**
AVAILABLE ON THE FOLLOWING MODELS

- BC-SW & BC-DW
- BAE-SW & BAE-DW
- BAF-SW & BAF-DW
- BCS
- NFC-SW & NFC-DW

Easy Access
Swingout Construction

Split Housings
(Pie-Shaped Housings Also Available)
UTILITY SETS

Utility sets are an excellent choice for general exhaust and supply requirements of commercial and light industrial applications. They are suitable for indoor usage and outdoor usage, with the addition of a weather cover to enclose the motor and drives. Fan housings are available in lock-seam galvanized steel, welded heavy-gauge steel, aluminum or stainless steel.

IMPELLER TYPES
Flat-Bladed Backward Inclined, Airfoil, Forward Curved

TYPICAL INDUSTRIES

COMMON ACCESSORIES
Access Door, Drain, Flanged Inlet/Outlet, Companion Flanges, Inlet/Outlet Screens, Belt Guard, Weather Cover, Shaft Seal, Shaft Cooler, Lube Lines, Piezometer Ring, Inlet Box, Two Groove Drive Minimum, Inlet & Outlet Dampers, External or Nested Inlet Vanes, Vibration Isolators, Disconnect Switches, Special Coatings

OPTIONAL CONSTRUCTION
High Temperature, Special Materials, Spark Resistant Construction, Smoke & Heat

CERTIFICATIONS
AMCA Sound/Air and FEI, UL 705 Listed for Electrical, UL 705 Supplement SC (formerly UL 762) Listed for Grease-Laden Air, UL Listed for Smoke Control Systems
BCV
FLAT-BLADED BACKWARD INCLINED UTILITY SETS, BELT DRIVEN

> 10.5 to 60 inches (270 mm to 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
> **Typical Applications:** Data Center Exhaust, General HVAC, Elevator Shaft Exhaust/Pressurization, Restroom Exhaust, Stairwell Pressurization, Industrial Ovens, Vehicle Exhaust Generator Room Ventilation, Swimming Pool Exhaust

BCVR
FLAT-BLADED BACKWARD INCLINED UTILITY SETS, UL LISTED FOR THE EXHAUST OF GREASE-LADEN AIR

> 10.5 to 36.5 inches (270 mm to 930 mm) impeller diameters
> Airflow to 29,100 CFM (49,400 m³/hour)
> Static pressure to 8 inches w.g. (1,990 Pa)
> AMCA licensed for Sound, Air and Fan Energy Index
> UL 705 Supplement SC (formerly UL 762) listed for grease-laden air
> **Typical Applications:** Kitchen Exhaust, Dishwasher Exhaust

BCVSH
FLAT-BLADED BACKWARD INCLINED UTILITY SETS, UL LISTED FOR SMOKE CONTROL SYSTEMS

> 12.25 to 60 inches (315 mm to 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 listed for Smoke Control Systems
> **Typical Applications:** Elevator Shaft Exhaust/Pressurization, Emergency Smoke Exhaust, Stairwell Pressurization

DCV
FLAT-BLADED BACKWARD INCLINED UTILITY SETS, DIRECT DRIVE

> 10.5 to 20 inches (270 mm to 510 mm) impeller diameters
> Airflow to 8,200 CFM (13,900 m³/hour)
> Static pressure to 2.5 inches w.g. (600 Pa)
> AMCA licensed for Sound, Air and Fan Energy Index
> **Typical Applications:** Data Center Exhaust, General HVAC, Elevator Shaft Exhaust/Pressurization, Restroom Exhaust, Stairwell Pressurization, Industrial Ovens, Vehicle Exhaust Generator Room Ventilation, Swimming Pool Exhaust
FCV
FORWARD CURVED UTILITY SETS

> 7.5 to 36.5 inches (195 mm to 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
> **Typical Applications:** Data Center Exhaust, Elevator Shaft Exhaust/Pressurization, General HVAC, Restroom Exhaust, Generator Room Ventilation, Stairwell Pressurization, Swimming Pool Exhaust

BAV
AIRFOIL UTILITY SET

> 12.25 to 36.5 inches (315 mm to 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
> **Typical Applications:** Data Center Exhaust, General HVAC, Elevator Shaft Exhaust/Pressurization, Swimming Pool Exhaust, Restroom Exhaust, Generator Room Ventilation, Stairwell Pressurization

DDF
FORWARD CURVED JUNIOR UTILITY SETS, DIRECT DRIVE

> 6 to 10.5 inches (155 mm to 270 mm) impeller diameters
> Airflow to 2,100 CFM (3,600 m³/hour)
> Static pressure to 1.75 inches w.g. (440 Pa)
> **Typical Applications:** Data Center Exhaust, General HVAC, Elevator Shaft Exhaust/Pressurization, Restroom Exhaust, Generator Room Ventilation, Stairwell Pressurization, Swimming Pool Exhaust
Ceiling and cabinet ventilators are designed for commercial applications requiring quiet, continuous and reliable operation, including bathrooms, generator rooms, data centers and general HVAC exhaust. These ventilators offer a variety of mounting configurations.

DBS
FORWARD CURVED INLINE DUCT BLOWERS
> 8 to 20 inches (205 mm to 510 mm) impeller diameters
> Airflow to 18,500 CFM (31,400 m³/hour)
> Static pressure to 4 inches w.g. (990 Pa)
> AMCA licensed for Sound, Air and Fan Energy Index
> UL 705 listed

DBT
FORWARD CURVED INLINE TWIN DUCT BLOWERS
> 8 to 20 inches (205 mm to 510 mm) impeller diameters
> Airflow to 31,500 CFM (53,500 m³/hour)
> Static pressure to 3 inches w.g. (750 Pa)
> AMCA licensed for Sound, Air and Fan Energy Index
> UL 705 listed

T
 CEILING VENTILATOR
> 14 fan sizes available in horizontal and vertical discharge
> Airflow to 722 CFM (1,200 m³/hour)
> Static pressure to 1 inch w.g. (250 Pa)
> UL 507 listed

TL
INLINE/CABINET VENTILATOR
> 8 fan sizes available in straight through and right angle discharge
> Airflow to 724 CFM (1,200 m³/hour)
> Static pressure to 1 inch w.g. (250 Pa)
> UL 507 listed
OVERVIEW

**INLINE CENTRIFUGAL & MIXED FLOW FANS**

Inline centrifugal and mixed flow fans are designed for general HVAC 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, Single Surface Mixed Flow and True Airfoil (double surface – hollow) Mixed Flow

**TYPICAL INDUSTRIES**
General HVAC (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

**COMMON ACCESSORIES**
Access Doors, Belt Guards, Belt Tube, Companion Flanges, Disconnect Switches, Inlet/Outlet Screens, Inlet Vanes, Piezometer Ring Airflow Measurement System, Pressure Transducers, Special Coatings, Vibration Isolation and Weather Covers

**OPTIONAL CONSTRUCTION**
Spark Resistant Construction (Type A, B and C), Easy Access Construction

**CERTIFICATIONS**
AMCA Sound/Air and FEI, UL 705 Listed for Electrical, UL 705 Supplement SC (formerly UL 762) Listed for Grease-Laden Air, UL Listed for Smoke Control Systems
DSI
SQUARE INLINE CENTRIFUGAL FANS, DIRECT DRIVE
> 8 to 16.5 inches (205 mm to 420 mm) impeller diameters
> Airflow to 5,800 CFM (9,900 m³/hour)
> Static pressure to 2 inches w.g. (500 Pa)
> AMCA licensed for Sound, Air and Fan Energy Index
> UL 705 listed
> **Typical Applications:** Data Center Exhaust, General HVAC, Generator Room Ventilation, Odor Control, Restroom Exhaust

BSI
SQUARE INLINE CENTRIFUGAL FANS, BELT DRIVEN
> 8 to 40.25 inches (205 mm to 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
> **Typical Applications:** Data Center Exhaust, General HVAC, Generator Room Ventilation, Odor Control, Restroom Exhaust

TSL
TUBULAR INLINE CENTRIFUGAL FANS
> 12.25 to 89 inches (315 mm to 2,265 mm) impeller diameters
> Airflow to 221,700 CFM (376,700 m³/hour)
> Static pressure to 9 inches w.g. (2,240 Pa)
> AMCA licensed for Sound, Air and Fan Energy Index
> UL 705 listed
> **Typical Applications:** Data Center Exhaust, General HVAC, Generator Room Ventilation, Odor Control, Wastewater Treatment

QCLB
LOW PRESSURE MIXED FLOW FANS
> 12.25 to 73 inches (315 mm to 1,855 mm) impeller diameters
> Airflow to 105,000 CFM (178,400 m³/hour)
> Static pressure to 4.5 inches w.g. (1,120 Pa)
> AMCA licensed for Sound, Air and Fan Energy Index
> UL 705 listed
> **Typical Applications:** Data Center Exhaust, General HVAC, Generator Room Ventilation
QCLBR
LOW PRESSURE RESTAURANT MIXED FLOW FANS,
UL LISTED FOR THE EXHAUST OF GREASE-LADEN AIR

> 12.25 to 73 inches (315 mm to 1,855 mm) impeller diameters
> Airflow to 105,000 CFM (178,400 m³/hour)
> Static pressure to 4.5 inches w.g. (1,120 Pa)
> AMCA licensed for Sound, Air and Fan Energy Index
> UL 705 Supplement SC (formerly UL 762) listed for grease-laden air

> Typical Applications: Kitchen Exhaust, Dishwasher Exhaust

QCLBSH
LOW PRESSURE SMOKE & HEAT MIXED FLOW FANS,
UL LISTED FOR SMOKE CONTROL SYSTEMS

> 12.25 to 73 inches (315 mm to 1,855 mm) impeller diameters
> Airflow to 105,000 CFM (178,400 m³/hour)
> Static pressure to 4.5 inches w.g. (1,120 Pa)
> AMCA licensed for Sound, Air and Fan Energy Index
> UL listed for Smoke Control Systems

> Typical Applications: Elevator Shaft Exhaust/Pressurization, Emergency Smoke Exhaust, Stairwell Pressurization

QSL
QUIET MIXED FLOW FANS

> 18.25 to 89 inches (465 mm to 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

> Typical Applications: Air Handling Units, Data Center Exhaust, General HVAC, Generator Room Ventilation, Paint Booth Exhaust

QSLR
QUIET MIXED FLOW RESTAURANT FANS,
UL LISTED FOR THE EXHAUST OF GREASE-LADEN AIR

> 18.25 to 89 inches (465 mm to 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 Supplement SC (formerly UL 762) listed for grease-laden air

> Typical Application: Kitchen Exhaust
QSLSH
QUIET MIXED FLOW SMOKE & HEAT REMOVAL FANS,
UL LISTED FOR SMOKE CONTROL SYSTEMS

> 18.25 to 89 inches (465 mm to 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 listed for Smoke Control Systems
> **Typical Applications:** Elevator Shaft Exhaust/Pressurization, Emergency Smoke Exhaust, Stairwell Pressurization

ILCF
FIBERGLASS INLINE CENTRIFUGAL FAN

> 12.4 to 25 inches (315 mm to 635 mm) impeller diameters
> Airflow to 15,200 CFM (25,800 m³/hour)
> Static pressure to 7 inches w.g. (1,740 Pa)
> **Typical Applications:** Chemical/Corrosive Environments, Exhaust Applications, Water Treatment, Air Pollution Control, Process Air, High Moisture Environments
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. With housed or open designs, as well as belt or direct drive options, plenum fans provide the flexibility to match the performance and application at the highest efficiency.

APPLICATIONS
Air-Conditioning/Heating Units, Air-Make-Up Units, Clean-Room Filtration Systems, Supply Air Systems

IMPELLER TYPES
Backward Inclined Airfoil (9-Blades or 12-Blades)

TYPICAL INDUSTRIES
General HVAC (exhaust, filtration, return and supply, air of commercial buildings and air handling units)

COMMON ACCESSORIES
Inlet/Outlet Screen, Piezometer Ring Airflow Measurement System, Pressure Transducers, Protective Enclosure, Special Coatings, Vibration Isolation, Aero Acoustic Diffuser™

OPTIONAL CONSTRUCTION
Special Impeller Width

CERTIFICATIONS
AMCA Sound/Air and FEI
EPF
PLENUM FAN, AIRFOIL IMPELLER, 9-BLADES, ARRANGEMENT 3

> 12.25 to 89 inches (315 mm to 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
> **Typical Applications:** Air Handling Units, General HVAC, Make-Up Air Units, Elevator Shaft Exhaust/Pressurization, Hospital Exhaust, Stairwell Pressurization, School Exhaust, Air Filtration, Generator Room Ventilation, Kitchen Exhaust, Dishwasher Exhaust

EPFN
PLENUM FAN, AIRFOIL IMPELLER, 9-BLADES, ARRANGEMENT 1 & 4

> 12.25 to 89 inches (315 mm to 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
> **Typical Applications:** Air Handling Units, General HVAC, Make-Up Air Units, Elevator Shaft Exhaust/Pressurization, Hospital Exhaust, Stairwell Pressurization, School Exhaust, Air Filtration, Generator Room Ventilation, Kitchen Exhaust, Dishwasher Exhaust

EPQ
PLENUM FAN, AIRFOIL IMPELLER, 12-BLADES, ARRANGEMENT 3

> 12.25 to 89 inches (315 mm to 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
> **Typical Applications:** Air Handling Units, General HVAC, Make-Up Air Units, Elevator Shaft Exhaust/Pressurization, Hospital Exhaust, Stairwell Pressurization, School Exhaust, Air Filtration, Generator Room Ventilation, Kitchen Exhaust, Dishwasher Exhaust

EPQN
PLENUM FAN, AIRFOIL IMPELLER, 12-BLADES, ARRANGEMENT 1 & 4

> 12.25 to 89 inches (315 mm to 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
> **Typical Applications:** Air Handling Units, General HVAC, Make-Up Air Units, Elevator Shaft Exhaust/Pressurization, Hospital Exhaust, Stairwell Pressurization, School Exhaust, Air Filtration, Generator Room Ventilation, Kitchen Exhaust, Dishwasher Exhaust
PLENUM FANS

**EPLFN**
PLENUM FAN, COMMERCIAL DUTY, AIRFOIL IMPELLER, 9-BLADES

- > 12.25 to 49 inches (315 mm to 1,245 mm) impeller diameters
- > Airflow to 68,800 CFM (116,900 m³/hour)
- > Static pressure to 12 inches w.g. (2,980 Pa)
- > AMCA licensed for Sound, Air and Fan Energy Index

**EPLQN**
PLENUM FAN, COMMERCIAL DUTY, AIRFOIL IMPELLER, 12-BLADES

- > 12.25 to 49 inches (315 mm to 1,245 mm) impeller diameters
- > Airflow to 68,800 CFM (116,900 m³/hour)
- > Static pressure to 12 inches w.g. (2,980 Pa)
- > AMCA licensed for Sound, Air and Fan Energy Index

**MPQN**
MODULAR INSULATED PLENUM FAN, AIRFOIL IMPELLER, 12-BLADES, ARRANGEMENT 4

- > 12.25 to 49 inches (315 mm to 1,245 mm) impeller diameters
- > Airflow to 76,000 CFM (129,100 m³/hour)
- > Static pressure to 12 inches w.g. (2,980 Pa)
- > AMCA licensed for Sound, Air and Fan Energy Index

**MPQS**
MODULAR PLENUM FAN, AIRFOIL IMPELLER, 12-BLADES, ARRANGEMENT 4

- > 12.25 to 49 inches (315 mm to 1,245 mm) impeller diameters
- > Airflow to 76,000 CFM (129,100 m³/hour)
- > Static pressure to 12 inches w.g. (2,980 Pa)
- > AMCA licensed for Sound, Air and Fan Energy Index
MPLFS
MODULAR PLENUM FAN, AIRFOIL IMPELLER
9-BLADES, ARRANGEMENT 4
> 12.25 to 36.5 inches (315 mm to 930 mm) impeller diameters
> Airflow to 44,000 CFM (74,800 m³/hour)
> Static pressure to 12 inches w.g. (2,980 Pa)
> AMCA licensed for Sound, Air and Fan Energy Index

MPLFN
MODULAR INSULATED PLENUM FAN, AIRFOIL IMPELLER
9-BLADES, ARRANGEMENT 4
> 12.25 to 36.5 inches (315 mm to 930 mm) impeller diameters
> Airflow to 44,000 CFM (74,800 m³/hour)
> Static pressure to 12 inches w.g. (2,980 Pa)
> AMCA licensed for Sound, Air and Fan Energy Index

MPLQS
MODULAR PLENUM FAN, AIRFOIL IMPELLER
12-BLADES, ARRANGEMENT 4
> 12.25 to 36.5 inches (315 mm to 930 mm) impeller diameters
> Airflow to 44,000 CFM (74,800 m³/hour)
> Static pressure to 12 inches w.g. (2,980 Pa)
> AMCA licensed for Sound, Air and Fan Energy Index

MPLQN
MODULAR INSULATED PLENUM FAN, AIRFOIL IMPELLER
12-BLADES, ARRANGEMENT 4
> 12.25 to 36.5 inches (315 mm to 930 mm) impeller diameters
> Airflow to 44,000 CFM (74,800 m³/hour)
> Static pressure to 12 inches w.g. (2,980 Pa)
> AMCA licensed for Sound, Air and Fan Energy Index
OVERVIEW

PLUG FANS
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.

APPLICATIONS
Air Curtains, Dyers, Freezers, High Temperature, Kilns, Ovens, 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

IMPELLER TYPES
Flat-Bladed Backward Inclined and Backward Curved

TYPICAL INDUSTRIES
Automotive, Industrial Cooling and Ovens

COMMON ACCESSORIES
Belt Guards, Bearing Guards, Extended Lube Lines, Forklift Lifting Tubes, Integral Inlet Cone, Insulated Plug, Piezometer Ring Airflow Measurement System, Shaft Cooler (Slinger), Variable Inlet Vanes, Housings

OPTIONAL CONSTRUCTION
ATEX Construction, High-Temperature Construction to 1000° F, Pedestal Design for Floor Mounting, Spark Resistant Construction (Type A, B and C), Special Materials (Stainless Steel, Normalized Steel), Special Impeller Width & Diameter
BEPL
HIGH EFFICIENCY PLUG FAN, BACKWARD CURVED

> 12.4 to 49 inches (315 mm to 1,245 mm) impeller diameters
> Airflow to 76,000 CFM (129,100 m³/hour)
> Static pressure to 12 inches w.g. (2,980 Pa)
> Airstream temperatures to 1,000°F (538°C)
> **Typical Applications:** Air Curtains, Dyers, Freezers, High Temperature, Kilns, Ovens, Product Cooling, Re-Circulation, Air Heaters, Ceiling, Degreasers, Dryers, Dust Collectors, Evaporators, Packaged Air Handlers, Parts Washers, Penthouses, Smoke Houses, Space Heaters, Spray Booths

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BFPL
HIGH EFFICIENCY PLUG FAN, BACKWARD CURVED

> 12.4 to 49.21 inches (315 mm to 1,250 mm) impeller diameters
> Airflow to 76,000 CFM (129,100 m³/hour)
> Static pressure to 12 inches w.g. (2,980 Pa)
> Airstream temperatures to 1,000°F (538°C)
> **Typical Applications:** Air Curtains, Dyers, Freezers, High Temperature, Kilns, Ovens, Product Cooling, Re-Circulation, Air Heaters, Ceiling, Degreasers, Dryers, Dust Collectors, Evaporators, Packaged Air Handlers, Parts Washers, Penthouses, Smoke Houses, Space Heaters, Spray Booths

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BCPL
PLUG FAN, BC BACKWARD INCLINED IMPELLER
NON-HVAC APPLICATIONS

> 12.25 to 49 inches (315 mm to 1,245 mm) impeller diameters
> Airflow to 57,900 CFM (98,400 m³/hour)
> Static pressure to 8 inches w.g. (1,990 Pa)
> Airstream temperatures to 1,000°F (538°C)
> **Typical Applications:** Air Curtains, Dyers, Freezers, High Temperature, Kilns, Ovens, Product Cooling, Re-Circulation, Air Heaters, Ceiling, Degreasers, Dryers, Dust Collectors, Evaporators, Packaged Air Handlers, Parts Washers, Penthouses, Smoke Houses, Space Heaters, Spray Booths
OVERVIEW

CENTRIFUGAL ROOF & WALL EXHAUSTERS
Centrifugal roof and wall exhausters are available in direct and belt driven models, featuring backward inclined, non-overloading centrifugal impellers for maximum efficiency and quiet operation. A variety of configurations are available for the exhaust of relatively clean air and grease-laden air.

TYPICAL INDUSTRIES

COMMON ACCESSORIES
Backdraft Dampers, Roof Curbs, Bird Screens, Insect Screens, Curb Hinges, Retaining Chains, Security Hasps, Metal Nameplates, Stainless Steel Shafts, Automatic Belt Tensioners, AMCA Spark B Construction, Stainless Steel Hardware, Tie Downs, Speed Controllers, Two-Speed Switches, Firestats, Disconnect Switches, Special Coatings

CERTIFICATIONS
AMCA Sound/Air and FEI, UL 705 Listed for Electrical, UL 705 Supplement SC (formerly UL 762) Listed for Grease-Laden Air, UL Listed for Smoke Control Systems, Miami-Dade County Hurricane Rating per NOA No. 21-0803.03
**BCRD**  
**CENTRIFUGAL ROOF EXHAUSTER, DOWNBLAST, BELT DRIVEN**  
- 8.5 to 50.5 inches (220 mm to 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  
- **Typical Applications:** Data Center Exhaust, General HVAC, General Rooftop Exhaust, Generator Room Ventilation, Jet Bridge Exhaust, Restroom Exhaust  

**VC**  
**CENTRIFUGAL ROOF EXHAUSTER, DOWNBLAST, DIRECT DRIVE**  
- 8.375 to 12 inches (215 mm to 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  
- **Typical Applications:** General HVAC, General Rooftop Exhaust, Generator Room Ventilation, Jet Bridge Exhaust, Restroom Exhaust  

**VCU**  
**CENTRIFUGAL ROOF/WALL EXHAUSTER, UPBLAST, DIRECT DRIVE**  
- 8.52 to 19.7 inches (220 mm to 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  
- **Typical Applications:** General HVAC, General Rooftop Exhaust, Generator Room Ventilation, Jet Bridge Exhaust, Restroom Exhaust  

**VCUB**  
**CENTRIFUGAL ROOF/WALL EXHAUSTER, UPBLAST, BELT DRIVEN**  
- 12.25 to 19.7 inches (315 mm to 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  
- **Typical Applications:** General HVAC, General Rooftop Exhaust, Generator Room Ventilation, Jet Bridge Exhaust, Restroom Exhaust
BCRU
CENTRIFUGAL ROOF EXHAUSTER, UPBLAST, BELT DRIVEN

> 24.80 to 49.21 inches (630 mm to 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
> **Typical Applications:** General HVAC, General Rooftop Exhaust, Generator Room Ventilation, Jet Bridge Exhaust, Restroom Exhaust

BCRUR
CENTRIFUGAL KITCHEN ROOF EXHAUSTER, UPBLAST, BELT DRIVEN, UL LISTED FOR THE EXHAUST OF GREASE-LADEN AIR

> 24.80 to 39.37 inches (630 mm to 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
> **Typical Applications:** Kitchen Exhaust, Dishwasher Exhaust

BCRUSH
CENTRIFUGAL ROOF EXHAUSTER, UPBLAST, BELT DRIVEN, UL LISTED FOR SMOKE CONTROL SYSTEMS

> 12.25 to 49.21 inches (495 mm to 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 listed for Smoke Control Systems
> **Typical Applications:** Elevator Shaft Exhaust/Pressurization, Emergency Smoke Exhaust, Stairwell Pressurization

BCRW
CENTRIFUGAL WALL EXHAUSTER, BELT DRIVEN

> 19.47 to 31.5 inches (495 mm to 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
> **Typical Applications:** Data Center Exhaust, General HVAC, Generator Room Ventilation, Restroom Exhaust

BCRWR
CENTRIFUGAL WALL KITCHEN EXHAUSTER, BELT DRIVEN, UL LISTED FOR THE EXHAUST OF GREASE-LADEN AIR

> 19.47 to 31.5 inches (495 mm to 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 Supplement SC (formerly UL 762) listed for grease-laden air
> **Typical Applications:** Kitchen Exhaust, Dishwasher Exhaust
DCLP
LOUVERED CENTRIFUGAL ROOF EXHAUSTERS, DIRECT DRIVE
> 8 to 12.38 inches (205 mm to 315 mm) impeller diameters
> Airflow to 2,000 CFM (3,400 m³/hour)
> Static pressure to 1 inch w.g. (250 Pa)
> UL 705 listed
> **Typical Applications:** Data Center Exhaust, General HVAC, General Rooftop Exhaust, Restroom Exhaust, Generator Room Ventilation, Jet Bridge Exhaust

BCLP
LOUVERED CENTRIFUGAL ROOF EXHAUSTERS, BELT DRIVEN
> 8.5 to 55.12 inches (215 mm to 1,400 mm) impeller diameters
> Airflow to 36,000 CFM (61,200 m³/hour)
> Static pressure to 3.25 inches w.g. (810 Pa)
> UL 705 listed
> **Typical Applications:** Data Center Exhaust, General HVAC, General Rooftop Exhaust, Restroom Exhaust, Generator Room Ventilation, Jet Bridge Exhaust

DCLH
HOODED CENTRIFUGAL ROOF EXHAUSTERS, DIRECT DRIVE
> 8 to 12.38 inches (205 mm to 315 mm) impeller diameters
> Airflow to 2,000 CFM (3,400 m³/hour)
> Static pressure to 1 inch w.g. (250 Pa)
> UL 705 listed
> **Typical Applications:** Data Center Exhaust, General HVAC, General Rooftop Exhaust, Restroom Exhaust, Generator Room Ventilation, Jet Bridge Exhaust

BCLH
HOODED CENTRIFUGAL ROOF EXHAUSTERS, BELT DRIVEN
> 8.5 to 55.12 inches (215 mm to 1,400 mm) impeller diameters
> Airflow to 36,000 CFM (61,200 m³/hour)
> Static pressure to 3.25 inches w.g. (810 Pa)
> UL 705 listed
> **Typical Applications:** Data Center Exhaust, General HVAC, General Rooftop Exhaust, Restroom Exhaust, Generator Room Ventilation, Jet Bridge Exhaust
CANTED ROOF CURBS
PREFABRICATED ROOF CURBS
> Constructed of 18-gauge galvanized steel with continuously-welded seams
> Large 3” built-in 45° cant to accommodate roofing material to top of curb. Cant is beveled at corners for better support of roofing material.
> Wood nailer (1½”) secured to top ledge
> Lined with 1½” fiberglass fire-resistant, sound-absorbing insulation
> Damper shelf standard
> Options: Aluminum (16-gauge) construction, burglar security bars, metal liner (galvanized or aluminum), special heights up to 24”, single- or double-pitched curbs for sloping roofs

SELF-FLASHING & STRAIGHT-SIDED ROOF CURBS
PREFABRICATED ROOF CURBS
> Constructed of 18-gauge galvanized steel with continuously-welded seams
> Wide base plate (flashing) to ensure watertight seal to roof
> Top ledge covered with 1/16” polystyrene gasket (self-flashing) for weather seal and to reduce metal-to-metal conducted noise
> Wood nailer (1½”) secured to top ledge (straight-sided)
> Lined with 1½” fiberglass fire-resistant, sound-absorbing insulation
> Damper shelf standard
> Straight-sided roof curbs are constructed with the same features as the self-flashing curbs, but are one dimensional to allow for field supplied cants and roofing material to be brought up to the top of the curb
> Options: Aluminum (16-gauge) construction, burglar security bars, metal liner (galvanized or aluminum), special heights up to 24”, single- or double-pitched curbs for sloping roofs

CURB ADAPTERS
PREFABRICATED ROOF CURBS
> Constructed of heavy-gauge galvanized steel with continuously-welded seams
> Top ledge covered with 1/16” polystyrene gasket to reduce metal-to-metal conducted noise and act as a weather seal
Filtered supply fans are belt driven centrifugal fans that are designed to provide filtered outside air to buildings such as manufacturing plants, warehouses and auditoriums. Fresh make-up air is supplied to replace the air lost through industrial processes, fume hood exhaust or general building ventilation.

**BCRFS**
CENTRIFUGAL ROOFTOP FILTERED SUPPLY FAN, BELT DRIVEN

- 8.86 to 22.05 inches (225 mm to 560 mm) impeller diameters
- Airflow to 17,000 CFM (28,900 m³/hour)
- Static pressure to 4 inches w.g. (990 Pa)
- AMCA licensed for Sound, Air and Fan Energy Index
- UL 705 listed
- **Typical Applications**: General HVAC Supply, Auditorium Supply, Industrial Supply

**LPSF**
LOUVERED PENTHOUSE SUPPLY FAN, BELT DRIVEN

- 12.4 to 35.6 inches (315 mm to 905 mm) impeller diameters
- Airflow to 47,000 CFM (79,900 m³/hour)
- Static pressure to 5.5 inches w.g. (1,370 Pa)
- **Typical Applications**: General HVAC Supply, Auditorium Supply, Industrial Supply

**CANTED ROOF CURBS**
PREFABRICATED ROOF CURBS

- Constructed of 18-gauge galvanized steel with continuously-welded seams
- Large 3" built-in 45° cant to accommodate roofing material to top of curb. Cant is beveled at corners for better support of roofing material.
- Wood nailer (1'/2") secured to top ledge
- Lined with 1'/2" fiberglass fire-resistant, sound-absorbing insulation
- Damper shelf standard

**SELF-FLASHING ROOF CURBS**
PREFABRICATED ROOF CURBS

- Constructed of 18-gauge galvanized steel with continuously-welded seams
- Wide base plate (flashing) to ensure watertight seal to roof
- Top ledge covered with 3/8" polystyrene gasket (self-flashing) for weather seal and to reduce metal-to-metal conducted noise
- Lined with 1'/2" fiberglass fire-resistant, sound-absorbing insulation
- Damper shelf standard
OVERVIEW

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.

IMPELLER TYPES
Fixed Pitch Fabricated Steel & Cast Aluminum, Adjustable Pitch Cast Aluminum

TYPICAL INDUSTRIES

COMMON ACCESSORIES
Wall Boxes, Wall Collars, OSHA Motor Side Guards, Filter Boxes, Weather Hoods, Backdraft Dampers, Damper Guards, Screens, Extended Lube Lines, Special Coatings, Disconnect Switches and Single Point Wiring

CERTIFICATIONS
AMCA Sound/Air and FEI, UL 705 Listed for Electrical
**TCWPZ / TCWPX**
WALL MOUNTED FAN, FIXED & ADJUSTABLE PITCH BLADES

- 12 to 72 inches (305 mm to 1,830 mm) impeller diameters
- Airflow to 85,000 CFM (144,400 m³/hour)
- Static pressure to 1.5 inches w.g. (370 Pa)
- **Typical Applications:** Data Center Exhaust, General HVAC, Generator Room Ventilation, Sidewall Exhaust and Supply

**WPD**
WALL MOUNTED FAN, MEDIUM-DUTY, DIRECT DRIVE

- 14 to 48 inches (355 mm to 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, Air and Fan Energy Index
- UL 705 listed
- **Typical Applications:** Data Center Exhaust, General HVAC, Generator Room Ventilation, Sidewall Exhaust and Supply

**WPB**
WALL MOUNTED FAN, LIGHT- & MEDIUM-DUTY, BELT DRIVEN

- 21 to 60 inches (535 mm to 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, Air and Fan Energy Index
- UL 705 listed
- **Typical Applications:** Data Center Exhaust, General HVAC, Generator Room Ventilation, Sidewall Exhaust and Supply

**TCPE**
WALL MOUNTED FAN, LIGHT-DUTY, EXHAUST, DIRECT DRIVE

- 8 to 24 inches (205 mm to 610 mm) impeller diameters
- Airflow to 7,615 CFM (12,900 m³/hour)
- Static pressure to 0.625 inches w.g. (160 Pa)
- AMCA licensed for Sound, Air and Fan Energy Index
- **Typical Applications:** General HVAC, Generator Room Ventilation, Sidewall Exhaust and Supply

**TCWPF**
FIBERGLASS PANEL FAN, DIRECT DRIVE

- 12 to 48 inches (305 mm to 1,220 mm) impeller diameters
- Airflow to 41,900 CFM (71,200 m³/hour)
- Static pressure to 1 inch w.g. (250 Pa)
- **Typical Applications:** Corrosive Environments, General HVAC, Marine, Wastewater Treatment, High Moisture Environments, Swimming Pools
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 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.

IMPELLER TYPES

Fixed Pitch Fabricated Steel and Cast Aluminum, Adjustable Pitch Cast Aluminum

TYPICAL INDUSTRIES


COMMON ACCESSORIES

Access Doors, Inlet/Outlet Screens and Guards, Inlet/Outlet Companion Flanges, Belt Guards, Motor Covers, Weather Covers, Inlet Bells, Inlet/Outlet Cones, Special Coatings and Disconnect Switches

OPTIONAL CONSTRUCTION

Spark Resistant Construction (Type A, B and C), High Temperature Construction, Reverse Flow Configuration, High Moisture Modification, Swingout and Clamshell Construction

CERTIFICATIONS

AMCA Sound/Air and FEI, UL 705 Listed for Electrical, UL Listed for Smoke Control Systems
TD
TUBEAXIAL FAN, DIRECT DRIVE

> 14 to 48 inches (355 mm to 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, Air and Fan Energy Index
> UL 705 listed
> **Typical Applications:** Data Center Exhaust, General HVAC, Parking Garage Ventilation

TB
TUBEAXIAL FAN, BELT DRIVEN

> 14 to 60 inches (355 mm to 1,525 mm) impeller diameters
> Airflow to 82,600 CFM (140,300 m³/hour)
> Static pressure to 1.5 inches w.g. (370 Pa)
> AMCA licensed for Sound, Air and Fan Energy Index
> UL 705 listed
> **Typical Applications:** Data Center Exhaust, General HVAC, General Rooftop Exhaust, Parking Garage Ventilation

TBSH
TUBEAXIAL FAN, BELT DRIVEN
UL LISTED FOR SMOKE CONTROL SYSTEMS

> 24 to 60 inches (610 mm to 1,525 mm) impeller diameters
> Airflow to 82,600 CFM (140,300 m³/hour)
> Static pressure to 1.25 inches w.g. (310 Pa)
> AMCA licensed for Sound, Air and Fan Energy Index
> UL listed for Smoke Control Systems
> **Typical Applications:** Elevator Shaft Exhaust/Pressurization, Emergency Smoke Exhaust, Stairwell Pressurization

ATAD
AXIPAL TUBEAXIAL FAN, DIRECT DRIVE

> 13.65 to 48.78 inches (350 mm to 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, Air and Fan Energy Index
> **Typical Applications:** Air Pollution Control, Data Center Exhaust, General HVAC, General Rooftop Exhaust, Clean Room HEPA Filtration, Odor Control, Wastewater Treatment
**TCTS**
**TUBEAXIAL FAN, STEEL IMPELLER**
- 12 to 54 inches (305 mm to 1,375 mm) impeller diameters
- Airflow to 80,000 CFM (135,900 m³/hour)
- Static pressure to 4 inches w.g. (990 Pa)
- UL 705 listing available
- **Typical Applications:** Air Pollution Control, Heat Transfer, Equipment Testing, Odor Control, Wastewater Treatment

**TCTSSH**
**TUBEAXIAL FAN, STEEL IMPELLER**
**UL LISTED FOR SMOKE CONTROL SYSTEMS**
- 12 to 54 inches (305 mm to 1,375 mm) impeller diameters
- Airflow to 80,000 CFM (135,900 m³/hour)
- Static pressure to 4 inches w.g. (990 Pa)
- UL listed for Smoke Control Systems
- **Typical Applications:** Elevator Shaft Exhaust/Pressurization, Emergency Smoke Exhaust, Stairwell Pressurization

**TCTA**
**TUBEAXIAL FAN, CAST ALUMINUM IMPELLER**
- 12 to 60 inches (305 mm to 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 listing available
- **Typical Applications:** Air Pollution Control, General HVAC, Clean Room HEPA Filtration, Odor Control, Parking Garage Ventilation, Wastewater Treatment

**TCVA**
**VANEAXIAL FAN, CAST ALUMINUM IMPELLER**
- 12 to 60 inches (305 mm to 1,525 mm) impeller diameters
- Airflow to 103,000 CFM (175,000 m³/hour)
- Static pressure to 7 inches w.g. (1,740 Pa)
- AMCA licensed for Air and Fan Energy Index
- UL 705 listing available
- **Typical Applications:** Air Pollution Control, Odor Control, Clean Room HEPA Filtration, Parking Garage Ventilation, Wastewater Treatment
TCVX
VANEAXIAL FAN, ADJUSTABLE PITCH BLADES

- 18 to 84 inches (460 mm to 2,135 mm) impeller diameters
- Airflow to 233,000 CFM (395,900 m³/hour)
- Static pressure to 10 inches w.g. (2,490 Pa)
- AMCA licensed for Sound, Air and Fan Energy Index
- UL 705 listing available
- **Typical Applications:** Air Pollution Control, Odor Control, Clean Room HEPA Filtration, Parking Garage Ventilation, Wastewater Treatment

TCVSSH
VANEAXIAL FAN, STEEL IMPELLER
UL LISTED FOR SMOKE CONTROL SYSTEMS

- 12 to 54 inches (305 mm to 1,375 mm) impeller diameters
- Airflow to 80,000 CFM (135,900 m³/hour)
- Static pressure to 4 inches w.g. (990 Pa)
- UL listed for Smoke Control Systems
- **Typical Applications:** Elevator Shaft Exhaust/Pressurization, Emergency Smoke Exhaust, Stairwell Pressurization

TCVS
VANEAXIAL FAN, STEEL IMPELLER

- 12 to 54 inches (305 mm to 1,375 mm) impeller diameters
- Airflow to 80,000 CFM (135,900 m³/hour)
- Static pressure to 4 inches w.g. (990 Pa)
- UL 705 listing available
- **Typical Applications:** Air Pollution Control, Heat Transfer Equipment Testing, Odor Control, Wastewater Treatment

TCBS
PAINT BOOTH EXHAUST TUBEAXIAL FAN, BELT DRIVEN

- 12 to 42 inches (305 mm to 1,070 mm) impeller diameters
- Airflow to 36,100 CFM (61,300 m³/hour)
- Static pressure to 1.25 inches w.g. (310 Pa)
- **Typical Application:** Spray Booth Exhaust
TAMF
FIBERGLASS TYPE FG7 TUBEAXIAL FAN, BELT DRIVEN
> 14 to 60 inches (355 mm to 1,525 mm) impeller diameters
> Airflow to 51,900 CFM (88,200 m³/hour)
> Static pressure to 1.5 inches w.g. (370 Pa)
> Typical Applications: Chemical/Corrosive Environments, Exhaust Applications, Water Treatment, Air Pollution Control, Process Air, High Moisture Environments

TAHF
FIBERGLASS TYPE TF TUBEAXIAL FAN, BELT DRIVEN
> 12 to 60 inches (305 mm to 1,525 mm) impeller diameters
> Airflow to 83,200 CFM (141,400 m³/hour)
> Static pressure to 2.5 inches w.g. (620 Pa)
> Typical Applications: Chemical/Corrosive Environments, Exhaust Applications, Water Treatment, Air Pollution Control, Process Air, High Moisture Environments

VAHF
FIBERGLASS TYPE TF VANEAXIAL FAN, BELT DRIVEN
> 12 to 60 inches (305 mm to 1,525 mm) impeller diameters
> Airflow to 81,200 CFM (138,000 m³/hour)
> Static pressure to 4 inches w.g. (990 Pa)
> Typical Applications: Chemical/Corrosive Environments, Exhaust Applications, Water Treatment, Air Pollution Control, Process Air, High Moisture Environments
Axial Swingout & Clamshell Construction
Easy access for frequent cleaning

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
ROOF VENTILATORS

**OVERVIEW**

ROOF VENTILATORS

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

**IMPELLER TYPES**

Fixed Pitch Fabricated Steel and Cast Aluminum, Adjustable Pitch Cast Aluminum

**TYPICAL INDUSTRIES**


**COMMON ACCESSORIES**


**CERTIFICATIONS**

UL 705 Listed for Electrical, UL Listed for Smoke Control Systems
**LUD**
LOW PROFILE UPBLAST ROOF VENTILATOR, DIRECT DRIVE

- > 14 to 48 inches (355 mm to 1,220 mm) impeller diameters
- > Airflow to 34,500 CFM (58,600 m³/hour)
- > Static pressure to 1 inch w.g. (250 Pa)
- > UL 705 listed
- > Typical Applications: Data Center Exhaust, General HVAC, General Rooftop Exhaust, Generator Room Ventilation, General Warehouse Ventilation

**LUB**
LOW PROFILE UPBLAST ROOF VENTILATOR, BELT DRIVEN

- > 21 to 60 inches (535 mm to 1,525 mm) impeller diameters
- > Airflow to 60,800 CFM (103,300 m³/hour)
- > Static pressure to 1 inch w.g. (250 Pa)
- > UL 705 listed
- > Typical Applications: Data Center Exhaust, General HVAC, General Rooftop Exhaust, Generator Room Ventilation, General Warehouse Ventilation

**LUBSH**
LOW PROFILE UPBLAST ROOF VENTILATOR, BELT DRIVEN
UL LISTED FOR SMOKE CONTROL SYSTEMS

- > 21 to 60 inches (535 mm to 1,525 mm) impeller diameters
- > Airflow to 59,800 CFM (101,600 m³/hour)
- > Static pressure to 1 inch w.g. (250 Pa)
- > UL 705 listed
- > UL listed for Smoke Control Systems
- > Typical Applications: Elevator Shaft Exhaust/Pressurization, Emergency Smoke Exhaust, Stairwell Pressurization/Exhaust, General Warehouse Ventilation

**LUBMO**
LOW PROFILE MOTOR OUT OF AIRSTREAM UPBLAST ROOF VENTILATOR, BELT DRIVEN

- > 21 to 60 inches (535 mm to 1,525 mm) impeller diameters
- > Airflow to 59,800 CFM (101,600 m³/hour)
- > Static pressure to 1 inch w.g. (250 Pa)
- > UL 705 listed
- > Typical Applications: Data Center Exhaust, General HVAC, General Rooftop Exhaust, Generator Room Ventilation, General Warehouse Ventilation
TUD
UPBLAST TUBEAXIAL ROOF VENTILATOR, DIRECT DRIVE

- 14 to 48 inches (355 mm to 1,220 mm) impeller diameters
- Airflow to 39,100 CFM (66,400 m³/hour)
- Static pressure to 1.5 inches w.g. (370 Pa)
- AMCA licensed for Sound, Air and Fan Energy Index
- UL 705 listed
- **Typical Applications:** Data Center Exhaust, General HVAC, General Rooftop Exhaust, Generator Room Ventilation, General Warehouse Ventilation

TUB
UPBLAST TUBEAXIAL ROOF VENTILATOR, BELT DRIVEN

- 14 to 60 inches (355 mm to 1,525 mm) impeller diameters
- Airflow to 72,400 CFM (123,000 m³/hour)
- Static pressure to 1.5 inches w.g. (370 Pa)
- AMCA licensed for Sound, Air and Fan Energy Index
- UL 705 listed
- **Typical Applications:** Data Center Exhaust, General HVAC, General Rooftop Exhaust, Generator Room Ventilation, General Warehouse Ventilation

TUBSH
UPBLAST TUBEAXIAL ROOF VENTILATOR, BELT DRIVEN
UL LISTED FOR SMOKE CONTROL SYSTEMS

- 24 to 60 inches (610 mm to 1,525 mm) impeller diameters
- Airflow to 70,700 CFM (120,100 m³/hour)
- Static pressure to 1.5 inches w.g. (370 Pa)
- AMCA licensed for Sound, Air and Fan Energy Index
- UL listed for Smoke Control Systems
- **Typical Applications:** Elevator Shaft Exhaust/Pressurization, Emergency Smoke Exhaust, Stairwell Pressurization/Exhaust, General Warehouse Ventilation

PRVF
FIBERGLASS TUBEAXIAL ROOF VENTILATOR

- 14 to 60 inches (355 mm to 1,525 mm) impeller diameters
- Airflow to 50,800 CFM (86,300 m³/hour)
- Static pressure to 1.5 inches w.g. (370 Pa)
- **Typical Applications:** Exhaust Applications, Water Treatment, Chemical/Corrosive Environments, Air Pollution Control, Process Air, High Moisture Environments
LHD
LOW PROFILE HOODED PRV, DIRECT DRIVE
> 14 to 48 inches (355 mm to 1,220 mm) impeller diameters
> Airflow to 33,500 CFM (56,900 m³/hour)
> Static pressure to 1 inch w.g. (250 Pa)
> UL 705 listed
> Typical Applications: Data Center Exhaust, General HVAC, General Rooftop Exhaust, Generator Room Ventilation, General Warehouse Ventilation

LHDF
FILTERED LOW PROFILE HOODED PRV, DIRECT DRIVE
> 21 to 48 inches (535 mm to 1,220 mm) impeller diameters
> Airflow to 30,400 CFM (51,600 m³/hour)
> Static pressure to 1 inch w.g. (250 Pa)
> UL 705 listed
> Typical Applications: General HVAC, Generator Room Ventilation, General Rooftop Supply, General Warehouse Ventilation

LHB
LOW PROFILE HOODED PRV, BELT DRIVEN
> 21 to 60 inches (535 mm to 1,525 mm) impeller diameters
> Airflow to 57,800 CFM (98,200 m³/hour)
> Static pressure to 1 inch w.g. (250 Pa)
> UL 705 listed
> Typical Applications: Data Center Exhaust, General HVAC, General Rooftop Exhaust, Generator Room Ventilation, General Warehouse Ventilation

LHBF
FILTERED LOW PROFILE HOODED PRV, BELT DRIVEN
> 21 to 60 inches (535 mm to 1,525 mm) impeller diameters
> Airflow to 57,600 CFM (97,860 m³/hour)
> Static pressure to 1 inch w.g. (250 Pa)
> UL 705 listed
> Typical Applications: General HVAC, Generator Room Ventilation, General Rooftop Supply
ROOF VENTILATORS

THD
HOODED TUBEAXIAL ROOF VENTILATOR, DIRECT DRIVE
> 14 to 48 inches (355 mm to 1,220 mm) impeller diameters
> Airflow to 36,400 CFM (61,800 m³/hour)
> Static pressure to 1.5 inches w.g. (370 Pa)
> UL 705 listed
> **Typical Applications:** Data Center Exhaust, General HVAC, General Rooftop Exhaust, Generator Room Ventilation, General Warehouse Ventilation

THDF
FILTERED HOODED TUBEAXIAL ROOF VENTILATOR, DIRECT DRIVE
> 21 to 48 inches (535 mm to 1,220 mm) impeller diameters
> Airflow to 36,400 CFM (61,800 m³/hour)
> Static pressure to 1.5 inches w.g. (370 Pa)
> UL 705 listed
> **Typical Applications:** General HVAC, Generator Room Ventilation, General Rooftop Supply, General Warehouse Ventilation

THB
HOODED TUBEAXIAL ROOF VENTILATOR, BELT DRIVEN
> 14 to 60 inches (355 mm to 1,525 mm) impeller diameters
> Airflow to 63,800 CFM (108,400 m³/hour)
> Static pressure to 1.5 inches w.g. (370 Pa)
> UL 705 listed
> **Typical Applications:** Data Center Exhaust, General HVAC, General Rooftop Exhaust, Generator Room Ventilation, General Warehouse Ventilation

THBF
FILTERED HOODED TUBEAXIAL ROOF VENTILATOR, BELT DRIVEN
> 21 to 60 inches (535 mm to 1,525 mm) impeller diameters
> Airflow to 63,800 CFM (108,400 m³/hour)
> Static pressure to 1.5 inches w.g. (370 Pa)
> UL 705 listed
> **Typical Applications:** General HVAC, Generator Room Ventilation, General Rooftop Supply, General Warehouse Ventilation
Gravity, or natural, ventilation is a means of ventilating a building by strategically placing openings in the building exterior in order to take advantage of naturally occurring phenomena. With a wide range of designs and styles, Twin City Fan & Blower can supply the right gravity ventilator whether it is selected based on performance, size, aesthetic appeal, weather resistance, construction, climate or cost. Gravity ventilators are designed to provide relief (exhaust) and intake (supply) airflow for a number of commercial and light industrial applications.

**OVERVIEW**

**GRV**
SPUN ALUMINUM GRAVITY RELIEF & INTAKE VENTILATORS

- 9 to 48.3 inches (230 mm to 1,230 mm) round throat sizes
- Airflow to 25,100 CFM (42,600 m³/hour)
- Static pressure to 0.375 inches w.g. (90 Pa)

**MGR / MGI**
MODULAR HOODED GRAVITY RELIEF & INTAKE VENTILATORS

- 8 to 180 inches (205 mm to 4,575 mm) throat sizes
- **MGR:** Airflow to 109,000 CFM (185,200 m³/hour)
- **MGR:** Static pressure to 0.3 inches w.g. (80 Pa)
- **MGI:** Airflow to 91,200 CFM (154,900 m³/hour)
- **MGI:** Static pressure to 0.4 inches w.g. (100 Pa)

**TIL / TEL**
LOUVERED PENTHOUSE GRAVITY RELIEF & INTAKE VENTILATORS

- 12 to 144 inches (305 mm to 3,660 mm) square throat sizes
- 3 to 20 tiers high
- Airflow to 85,700 CFM (145,600 m³/hour)
- Static pressure to 0.15 inches w.g. (40 Pa)
OVERVIEW

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 applications needs.

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

TYPICAL INDUSTRIES

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
Abrasion Resistant Construction, High Temperature Construction, Nominally Leak-Tight Construction, Spark Resistant Construction (Type A, B and C), Special Materials
RBO
INDUSTRIAL RADIAL BLADE FAN, PADDLE IMPELLER
> 8.75 to 104.25 inches (225 mm to 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
> **Typical Applications:** Dust Collection, Pneumatic Conveying,
  Water Treatment, Explosion-Proof Processes, General HVAC, Air
  Pollution Control, Material Handling, High Temperature

RBR
INDUSTRIAL RADIAL BLADE FAN, PADDLE IMPELLER
> 45.13 to 85.25 inches (1,150 mm to 2,165 mm) impeller diameters
> Airflow to 94,800 CFM (161,100 m³/hour)
> Static pressure to 46 inches w.g. (11,440 Pa)
> AMCA licensed for Air and Fan Energy Index
> **Typical Applications:** Dust Collection, Pneumatic Conveying,
  Water Treatment, Explosion-Proof Processes, General HVAC, Air
  Pollution Control, Material Handling, High Temperature

RBW
INDUSTRIAL RADIAL BLADE FAN, BACK PLATE WOOL IMPELLER
> 8.75 to 104.25 inches (225 mm to 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
> **Typical Applications:** Dust Collection, Pneumatic Conveying,
  Water Treatment, Explosion-Proof Processes, General HVAC, Air
  Pollution Control, Material Handling, High Temperature

RBP
INDUSTRIAL RADIAL BLADE FAN, PAPER HANDLING IMPELLER
> 19.13 to 45.13 inches (485 mm to 1,150 mm) impeller diameters
> Airflow to 26,500 CFM (45,000 m³/hour)
> Static pressure to 32 inches w.g. (7,960 Pa)
> **Typical Applications:** Dust Collection, Pneumatic Conveying,
  Water Treatment, Explosion-Proof Processes, General HVAC, Air
  Pollution Control, Material Handling, High Temperature
**RBA**

**INDUSTRIAL RADIAL BLADE FAN, AIR HANDLING IMPELLER**

- > 12.25 to 104.25 inches (315 mm to 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
- > **Typical Applications:** High Temperature, Pneumatic Conveying, Explosion-Proof Processes, Dust Collection, Water Treatment, Process Cooling, Drying Applications, General HVAC, Air Pollution Control

**RBOF**

**FIBERGLASS RADIAL BLADE CENTRIFUGAL FAN**

- > 10.63 to 57.5 inches (270 mm to 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
- > **Typical Applications:** Chemical/Corrosive Environments, Marine, Water Treatment, Exhaust Applications, Explosion-Proof Processes, Air Pollution Control, Process Air, General HVAC, High Moisture Environments

**JRW**

**COMPACT DESIGN INDUSTRIAL FAN**

- > 8.75 to 15.63 inches (225 mm to 400 mm) impeller diameters
- > Airflow to 2,000 CFM (3,400 m³/hour)
- > Static pressure to 14 inches w.g. (3,480 Pa)
- > **Typical Applications:** Air Pollution Control, Pneumatic Conveying, Boiler Systems, Process Cooling, Exhaust, Water Treatment, Dust Collection, Drying Applications, Explosion-Proof Processes, General HVAC, Vacuum Systems, General Manufacturing

**CIW**

**CAST IRON BLOWER**

- > 6.75 to 14 inches (175 mm to 355 mm) impeller diameters
- > Airflow to 2,000 CFM (3,400 m³/hour)
- > Static pressure to 12 inches w.g. (2,980 Pa)
- > **Typical Applications:** Air Pollution Control, Pneumatic Conveying, Boiler Systems, Process Cooling, Water Treatment, Exhaust, Dust Collection, Drying Applications, Explosion-Proof Processes, General HVAC, Vacuum Systems, General Manufacturing, Combustion Air
TPD
CAST ALUMINUM PRESSURE BLOWER, DIRECT DRIVE

> 7 to 18 inches (180 mm to 460 mm) impeller diameters
> Airflow to 2,800 CFM (4,800 m³/hour)
> Static pressure to 20 inches w.g. (4,970 Pa)
>
> Typical Applications: Air Pollution Control, Dust Collection, General HVAC, Explosion-Proof Processes, Process Cooling, Exhaust, Drying Applications, Material Handling, Pneumatic Conveying, Vacuum Systems, Wastewater Treatment, Combustion Air, Moisture Blow-Off

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TPB
CAST ALUMINUM PRESSURE BLOWER, BELT DRIVEN

> 8 to 18 inches (205 mm to 460 mm) impeller diameters
> Airflow to 2,400 CFM (4,100 m³/hour)
> Static pressure to 22 inches w.g. (5,470 Pa)
>
> Typical Applications: Air Pollution Control, Dust Collection, General HVAC, Explosion-Proof Processes, Process Cooling, Exhaust, Drying Applications, Material Handling, Pneumatic Conveying, Vacuum Systems, Wastewater Treatment, Combustion Air, Moisture Blow-Off
RADIAL TIP & HIGH EFFICIENCY FANS

Radial tip and high efficiency fans offer great efficiencies for a wide range of applications requiring high airflow and moderate pressures. The non-overloading design can handle high temperatures, corrosive airstreams and light particulate where the radial tip designs are better suited for dirty, particulate-laden air. With high airflows the radial tip fan is much more efficient than the comparable radial blade fan.

IMPELLER TYPES
High Efficiency Non-Overloading Backward Curved & Airfoil, Self-Cleaning Radial Tip

TYPICAL INDUSTRIES

COMMON ACCESSORIES
Access Door, Belt Guards, Evasé, Drain, Inlet/Outlet Companion Flange, Inlet/Outlet Screen, Piezometer Ring Airflow Measurement System, Shaft & Bearing Guards, Shaft Seal, Split Housing, Inlet Box, Inlet/Outlet Dampers, Bases, Special Coatings, Insulated Housings

OPTIONAL CONSTRUCTION
Special Width & Diameter Impellers, High Temperature, Nominally Leak-Tight Construction, Spark Resistant Construction (Type A, B and C)
HAF
HIGH EFFICIENCY INDUSTRIAL AIRFOIL FAN

> 25 to 82 inches (635 mm to 2,085 mm) impeller diameters
> Airflow to 160,000 CFM (271,800 m³/hour)
> Static pressure to 50 inches w.g. (12,430 Pa)
> Typical Applications: Drying Applications, Process Cooling, Exhaust, Dust Collection, Explosion-Proof Processes, Forced Draft, Induced Draft, Process Ventilation, Water Treatment, Pollution Control

HIB
HIGH EFFICIENCY INDUSTRIAL BACKWARD CURVED FAN

> 20.5 to 90.75 inches (520 mm to 2,310 mm) impeller diameters
> Airflow to 177,500 CFM (301,600 m³/hour)
> Static pressure to 36 inches w.g. (8,950 Pa)
> Typical Applications: Drying Applications, Process Cooling, Exhaust, Dust Collection, Explosion-Proof Processes, Forced Draft, Induced Draft, Process Ventilation, Water Treatment, Pollution Control

RTF
RADIAL TIP FAN

> 20.5 to 90.75 inches (520 mm to 2,305 mm) impeller diameters
> Airflow to 223,800 CFM (380,200 m³/hour)
> Static pressure to 36 inches w.g. (8,950 Pa)
> Typical Applications: Exhaust Applications, Dust Collection, Explosion-Proof Processes, Induced Draft, Material Handling, Air Pollution Control, Process Ventilation, Pollution Control, Vacuum Systems, General Manufacturing

HRT
RADIAL TIP FAN, HIGH SPECIFIC SPEED

> 27 to 80.75 inches (685 mm to 2,055 mm) impeller diameters
> Airflow to 254,700 CFM (432,700 m³/hour)
> Static pressure to 32 inches w.g. (7,960 Pa)
> Typical Applications: Exhaust Applications, Dust Collection, Explosion-Proof Processes, Induced Draft, Material Handling, Air Pollution Control, Process Ventilation, Pollution Control, Vacuum Systems, General Manufacturing
OVERVIEW

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. Twin City Fan & Blower 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, Fiberglass, Cast Aluminum Radial or Backward Curved

TYPICAL INDUSTRIES

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

OPTIONAL CONSTRUCTION
High Temperature Construction, Nominally Leak-Tight Construction, Spark Resistant Construction (Type A, B and C), Special Materials
TBNA
TURBO PRESSURE BLOWER, ALUMINUM IMPELLER
> 14.5 to 38 inches (370 mm to 970 mm) impeller diameters
> Airflow to 20,000 CFM (34,000 m³/hour)
> Static pressure to 128 inches w.g. (31,820 Pa)
> **Typical Applications:** Air Pollution Control, Process Cooling, Dust Collection, Explosion-Proof Processes, Drying Applications, Vacuum Systems, Process Applications, General Manufacturing, Exhaust, Wastewater Treatment, Combustion Air

TBNS
TURBO PRESSURE BLOWER, STEEL IMPELLER
> 14.5 to 38 inches (370 mm to 970 mm) impeller diameters
> Airflow to 20,000 CFM (34,000 m³/hour)
> Static pressure to 128 inches w.g. (31,820 Pa)
> **Typical Applications:** Air Pollution Control, Process Cooling, Dust Collection, Explosion-Proof Processes, Drying Applications, Material Handling, Pneumatic Conveying, Process Applications, Wastewater Treatment, Vacuum Systems, Combustion Air, Exhaust, General Manufacturing

TBA
TURBO PRESSURE BLOWER, AIR HANDLING IMPELLER
> 11.19 to 32.06 inches (285 mm to 815 mm) impeller diameters
> Airflow to 28,700 CFM (48,800 m³/hour)
> Static pressure to 70 inches w.g. (17,400 Pa)
> **Typical Applications:** Air Pollution Control, Process Cooling, Dust Collection, Explosion-Proof Processes, Drying Applications, Vacuum Systems, Process Applications, General Manufacturing, Exhaust, Wastewater Treatment, Combustion Air

TBR
TURBO PRESSURE BLOWER, RADIAL BLADED IMPELLER
> 10.75 to 35.19 inches (275 mm to 895 mm) impeller diameters
> Airflow to 10,100 CFM (17,200 m³/hour)
> Static pressure to 104 inches w.g. (25,860 Pa)
> **Typical Applications:** Air Pollution Control, Process Cooling, Dust Collection, Explosion-Proof Processes, Drying Applications, Vacuum Systems, Process Applications, General Manufacturing, Exhaust, Wastewater Treatment, Combustion Air

BCN
BACKWARD CURVED HIGH PRESSURE FAN
> 27 to 73 inches (685 mm to 1,855 mm) impeller diameters
> Airflow to 75,000 CFM (127,400 m³/hour)
> Static pressure to 100 inches w.g. (24,860 Pa)
> **Typical Applications:** Air Pollution Control, Boiler Systems, Exhaust, Process Cooling, Dust Collection, Forced Draft, Explosion-Proof Processes, Water Treatment, General HVAC, Process Applications, General Manufacturing, Combustion Air, Drying
**PBW**
**PRESSURE BLOWER, BACK PLATE RADIAL**
- > 19 to 26 inches (485 mm to 660 mm) impeller diameters
- > Airflow to 7,700 CFM (13,100 m³/hour)
- > Static pressure to 60 inches w.g. (14,920 Pa)

**MBO**
**HEAVY-DUTY PRESSURE BLOWER, OPEN RADIAL**
- > 19.63 to 58.94 inches (500 mm to 1,500 mm) impeller diameters
- > Airflow to 18,000 CFM (30,600 m³/hour)
- > Static pressure to 170 inches w.g. (42,270 Pa)
- > **Typical Applications:** Air Pollution Control, Dust Collection, Exhaust, Process Cooling, Explosion-Proof Processes, General HVAC, Drying Applications, Vacuum Systems, Material Handling, Pneumatic Conveying, Waste Water Treatment, Process Applications, Combustion Air

**MBR**
**HEAVY-DUTY PRESSURE BLOWER, HIGH PRESSURE AIR HANDLING**
- > 19.63 to 58.94 inches (500 mm to 1,500 mm) impeller diameters
- > Airflow to 18,000 CFM (30,600 m³/hour)
- > Static pressure to 180 inches w.g. (44,750 Pa)
- > **Typical Applications:** Air Pollution Control, Dust Collection, Exhaust, Process Cooling, Explosion-Proof Processes, General HVAC, Drying Applications, Vacuum Systems, Material Handling, Pneumatic Conveying, Waste Water Treatment, Process Applications, Combustion Air

**MBW**
**HEAVY-DUTY PRESSURE BLOWER, BACK PLATE RADIAL**
- > 19.63 to 58.94 inches (500 mm to 1,500 mm) impeller diameters
- > Airflow to 20,000 CFM (34,000 m³/hour)
- > Static pressure to 160 inches w.g. (39,780 Pa)
- > **Typical Applications:** Air Pollution Control, Dust Collection, Exhaust, Process Cooling, Explosion-Proof Processes, General HVAC, Drying Applications, Vacuum Systems, Material Handling, Pneumatic Conveying, Waste Water Treatment, Process Applications, Combustion Air

**HPF**
**FIBERGLASS HIGH PRESSURE BLOWER, RADIAL BLADE**
- > 18 to 28 inches (460 mm to 715 mm) impeller diameters
- > Airflow to 4,700 CFM (8,000 m³/hour)
- > Static pressure to 36 inches w.g. (8,950 Pa)
- > **Typical Applications:** Water Treatment, Explosion-Proof Processes, Chemical/Corrosive Environments, Air Pollution Control, Process Air, Exhaust, High Moisture Environments, General HVAC, Combustion Air, Marine
HRO
HIGH PRESSURE RADIAL PRESSURE BLOWER, OPEN IMPELLER
> 19.75 to 61.25 inches (505 mm to 1,555 mm) impeller diameters
> Airflow to 8,500 CFM (14,400 m³/hour)
> Static pressure to 103 inches w.g. (25,610 Pa)
> Typical Applications: Air Pollution Control, Dust Collection, Process Cooling, Explosion-Proof Processes, Drying Applications, Exhaust, Vacuum Systems, Material Handling, Pneumatic Conveying, Wastewater Treatment, Process Applications, Combustion Air, General HVAC

HRS
HIGH PRESSURE RADIAL PRESSURE BLOWER, SHROUDED IMPELLER
> 19.75 to 61.25 inches (505 mm to 1,555 mm) impeller diameters
> Airflow to 10,000 CFM (17,000 m³/hour)
> Static pressure to 120 inches w.g. (29,840 Pa)
> Typical Applications: Air Pollution Control, Dust Collection, Process Cooling, Explosion-Proof Processes, Drying Applications, Vacuum Systems, Material Handling, Exhaust, Pneumatic Conveying, Wastewater Treatment, Process Applications, Combustion Air, General HVAC

TPD
CAST ALUMINUM PRESSURE BLOWER, DIRECT DRIVE
> 7 to 18 inches (180 mm to 460 mm) impeller diameters
> Airflow to 2,800 CFM (4,800 m³/hour)
> Static pressure to 20 inches w.g. (4,970 Pa)
> Typical Applications: Air Pollution Control, Dust Collection, General HVAC, Explosion-Proof Processes, Process Cooling, Exhaust, Drying Applications, Material Handling, Pneumatic Conveying, Vacuum Systems, Wastewater Treatment, Combustion Air, Moisture Blow-Off

TPB
CAST ALUMINUM PRESSURE BLOWER, BELT DRIVEN
> 8 to 18 inches (205 mm to 460 mm) impeller diameters
> Airflow to 2,400 CFM (4,100 m³/hour)
> Static pressure to 22 inches w.g. (5,470 Pa)
> Typical Applications: Air Pollution Control, Dust Collection, General HVAC, Explosion-Proof Processes, Process Cooling, Exhaust, Drying Applications, Material Handling, Pneumatic Conveying, Vacuum Systems, Wastewater Treatment, Combustion Air, Moisture Blow-Off

CIW
CAST IRON BLOWER
> 6.75 to 14 inches (175 mm to 355 mm) impeller diameters
> Airflow to 2,000 CFM (3,400 m³/hour)
> Static pressure to 12 inches w.g. (2,980 Pa)
> Typical Applications: Air Pollution Control, Pneumatic Conveying, Boiler Systems, Process Cooling, Water Treatment, Dust Collection, Drying Applications, Explosion-Proof Processes, General HVAC, Exhaust, Vacuum Systems, General Manufacturing, Combustion Air
TXP
EXTREME PRESSURE BLOWER, COMPACT AND QUIET
> 10 to 16 inches (250 mm to 415 mm) impeller diameters
> Airflow to 3,200 CFM (5,400 m³/hour)
> Static pressure to 55 inches w.g. (13,650 Pa)
> **Typical Applications:** Combustion Air, Pressure and Vacuum Drying, Product Cooling, Primary Air Supply to Ejectors, Liquid Agitation, Glass Blowing and Cooling, Water Blow-Off, Air Pollution Control Systems, Heating and Ventilation, Exhausting, Pneumatic Conveying and Gas Boosting

TXR
EXTREME PRESSURE BLOWER, ROBUST AND VERSATILE
> 10 to 18 inches (250 mm to 450 mm) impeller diameters
> Airflow to 3,425 CFM (5,820 m³/hour)
> Static pressure to 64 inches w.g. (16,000 Pa)
> **Typical Applications:** Combustion Air, Pressure and Vacuum Drying, Product Cooling, Primary Air Supply to Ejectors, Liquid Agitation, Glass Blowing and Cooling, Water Blow-Off, Air Pollution Control Systems, Heating and Ventilation, Exhausting, Pneumatic Conveying and Gas Boosting

TXS
EXTREME PRESSURE BLOWER, HIGH STATIC PRESSURE
> 9.4 to 10 inches (240 mm to 245 mm) impeller diameters
> Airflow to 1,550 CFM (2,640 m³/hour)
> Static pressure to 88.5 inches w.g. (22,000 Pa)
> **Typical Applications:** Combustion Air, Pressure and Vacuum Drying, Product Cooling, Primary Air Supply to Ejectors, Liquid Agitation, Glass Blowing and Cooling, Water Blow-Off, Air Pollution Control Systems, Heating and Ventilation, Exhausting, Pneumatic Conveying and Gas Boosting
Mancoolers are constructed of high-quality axial fans and are designed for general industrial use. The mounted units are constructed on a movable base – both the inlet and the outlet are provided with screens as standard, and are fabricated to meet OSHA safety requirements. The fan’s swivel base allows 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.

**TCSM**  
MANCOOLER, STATIONARY MOUNT

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

LABORATORY & FUME EXHAUST FANS

Laboratories and research facilities exhaust a wide variety of harmful fumes. In concentrated forms, these fumes can be hazardous to human life. Contaminated air must be exhausted in a way that prevents it from returning into the building and surrounding locations where people may be present. To effectively exhaust these fumes, which in many cases are corrosive and/or explosive in nature, fans are connected to one or more fume hoods to draw the contaminated air through. For proper ventilation, exhaust fans must be capable of moving air at high velocities to achieve a high plume height, as well as entraining clean ambient air to dilute the chemical concentration in the airstream. Twin City Fan & Blower offers a complete line of laboratory and fume exhaust fans for meeting the most stringent industry standards. Our laboratory exhaust fans are often constructed of specialty materials to withstand the fumes associated with these environments.

APPLICATIONS


IMPELLER TYPES

Flat-Bladed Backward Inclined and Airfoil Centrifugal, Mixed Flow

COMMON ACCESSORIES

Mixing Plenum Box, Bypass Dampers, Isolation Dampers, Two-Positon Spring Return Actuator, OSHA Belt Guards, Shaft & Bearing Guards, Vortex Breakers, Inlet Screens, Special Coatings, Roof Curbs, Piezometer Flow Measurement Rings and Disconnect Switches

OPTIONAL CONSTRUCTION

Spark Resistant Construction (Type B and C), High Temperature

CERTIFICATIONS

AMCA Sound/Air, UL 705 Listed for Electrical
TVIFE
INDUCED FLOW MIXED FLOW EXHAUST FAN, DIRECT DRIVE
- 12.25 to 66 inches (315 mm to 1,680 mm) impeller diameters
- Airflow to 86,000 CFM (146,400 m³/hour)
- Static pressure to 8 inches w.g. (1,990 Pa)
- AMCA licensed for Induced Flow Sound and Air
- UL 705 listed

QIFE
INDUCED FLOW MIXED FLOW EXHAUST FAN, BELT DRIVEN
- 12.25 to 66 inches (315 mm to 1,680 mm) impeller diameters
- Airflow to 71,000 CFM (120,600 m³/hour)
- Static pressure to 8 inches w.g. (1,990 Pa)
- AMCA licensed for Induced Flow Sound and Air
- UL 705 listed

BAIFE
INDUCED FLOW CENTRIFUGAL EXHAUST FAN, AIRFOIL BLADE
- 12.25 to 66 inches (315 mm to 1,680 mm) impeller diameters
- Airflow to 135,000 CFM (229,400 m³/hour)
- Static pressure to 16 inches w.g. (3,980 Pa)
- AMCA licensed for Induced Flow Sound, Air and Fan Energy Index
- UL 705 listed

BCIFE
INDUCED FLOW CENTRIFUGAL EXHAUST FAN, BACKWARD INCLINED
- 12.25 to 66 inches (315 mm to 1,680 mm) impeller diameters
- Airflow to 132,000 CFM (224,300 m³/hour)
- Static pressure to 15 inches w.g. (3,730 Pa)
- UL 705 listed
QFE
FUME HOOD MIXED FLOW EXHAUST FAN, BELT DRIVEN
> 9 to 54.25 inches (230 mm to 1,380 mm) impeller diameters
> Airflow to 89,000 CFM (151,200 m³/hour)
> Static pressure to 9 inches w.g. (2,240 Pa)
> AMCA licensed for Sound and Air
> UL 705 listed

CATALOG 1505

TFE
FUME HOOD INLINE EXHAUST FAN, BELT DRIVEN
> 9 to 54.25 inches (230 mm to 1,380 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 1500
ENERGY RECOVERY SYSTEMS
LAB EXHAUST APPLICATIONS

Twin City Fan & Blower’s energy recovery systems combine high efficiency fume exhaust fans with the latest in energy recovery technology. Utilizing an energy recovery system can greatly reduce your energy consumption and carbon footprint while simultaneously increasing your bottom line. Our energy recovery plenums are available in endless configurations to match your specific needs.

OPTIONAL ACCESSORIES
> Heat exchanger bypass mode
> Custom coatings
> Special materials of construction
> Fiberglass wall insulation
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

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
BCSF
BACKWARD CURVED HIGH PRESSURE COMPOSITE FANS, SWSI
> 16.5 to 60 inches (420 mm to 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
> **Typical Applications:** Chemical/Corrosive Environments, Marine, Water Treatment, Air Pollution Control, Exhaust Applications, Process Air, Explosion-Proof Processes, General HVAC, High Moisture Environments

BAFF
FIBERGLASS SW AIRFOIL FAN, BIA IMPELLER
> 12 to 25 inches (305 mm to 635 mm) impeller diameters
> Airflow to 17,000 CFM (28,800 m³/hour)
> Static pressure to 13.5 inches w.g. (3,360 Pa)
> **Typical Applications:** Chemical/Corrosive Environments, Marine, Water Treatment, Exhaust Applications, Explosion-Proof Processes, Air Pollution Control, Process Air, High Moisture Environments, General HVAC

RBOF
FIBERGLASS RADIAL BLADE CENTRIFUGAL FAN
> 10.63 to 57.5 inches (270 mm to 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
> **Typical Applications:** Chemical/Corrosive Environments, Marine, Water Treatment, Exhaust Applications, Explosion-Proof Processes, Air Pollution Control, Process Air, High Moisture Environment

HPF
FIBERGLASS HIGH PRESSURE BLOWER, RADIAL BLADE
> 18 to 28 inches (460 mm to 715 mm) impeller diameters
> Airflow to 4,700 CFM (8,000 m³/hour)
> Static pressure to 36 inches w.g. (8,950 Pa)
> **Typical Applications:** Exhaust Applications, Water Treatment, Explosion-Proof Processes, Chemical/Corrosive Environments, Air Pollution Control, Process Air, High Moisture Environments, General HVAC, Marine
ILCF
FIBERGLASS INLINE CENTRIFUGAL FAN

> 12.4 to 25 inches (315 mm to 635 mm) impeller diameters
> Airflow to 15,200 CFM (25,800 m³/hour)
> Static pressure to 7 inches w.g. (1,740 Pa)
> **Typical Applications:** Exhaust Applications, Water Treatment, Marine, Chemical/Corrosive Environments, Air Pollution Control, Process Air, High Moisture Environments

PRVF
FIBERGLASS TUBEAXIAL ROOF VENTILATOR

> 14 to 60 inches (355 mm to 1,525 mm) impeller diameters
> Airflow to 50,800 CFM (86,300 m³/hour)
> Static pressure to 1.5 inches w.g. (370 Pa)
> **Typical Applications:** Exhaust Applications, Water Treatment, Marine, Chemical/Corrosive Environments, Air Pollution Control, Process Air, High Moisture Environments

TAMF
FIBERGLASS TYPE FG7 TUBEAXIAL FAN, BELT DRIVEN

> 14 to 60 inches (355 mm to 1,525 mm) impeller diameters
> Airflow to 51,900 CFM (88,200 m³/hour)
> Static pressure to 1.5 inches w.g. (370 Pa)
> **Typical Applications:** Exhaust Applications, Water Treatment, Marine, Chemical/Corrosive Environments, Air Pollution Control, Process Air, High Moisture Environments

TAHF
FIBERGLASS TYPE TF TUBEAXIAL FAN, BELT DRIVEN

> 12 to 60 inches (305 mm to 1,525 mm) impeller diameters
> Airflow to 83,200 CFM (141,400 m³/hour)
> Static pressure to 2.5 inches w.g. (620 Pa)
> **Typical Applications:** Exhaust Applications, Water Treatment, Marine, Chemical/Corrosive Environments, Air Pollution Control, Process Air, High Moisture Environments
VAHF
FIBERGLASS TYPE TF VANEAXIAL FAN, BELT DRIVEN

> 12 to 60 inches (305 mm to 1,525 mm) impeller diameters
> Airflow to 81,200 CFM (138,000 m³/hour)
> Static pressure to 4 inches w.g. (990 Pa)
> **Typical Applications:** Exhaust Applications, Water Treatment, Marine, Chemical/Corrosive Environments, Air Pollution Control, Process Air, High Moisture Environments

TCWPF
FIBERGLASS PANEL FAN, DIRECT DRIVE

> 12 to 48 inches (305 mm to 1,220 mm) impeller diameters
> Airflow to 41,900 CFM (71,200 m³/hour)
> Static pressure to 1 inch w.g. (250 Pa)
> **Typical Applications:** Corrosive Environments, General HVAC, Marine, Wastewater Treatment, High Moisture Environments, Swimming Pools
WA
FIBERGLASS UPBLAST CENTRIFUGAL ROOF VENTILATOR, DIRECT DRIVE
> 7 to 18 inches (180 mm to 460 mm) impeller diameters
> Airflow to 3,030 CFM (5,100 m³/hour)
> Static pressure to 1 inch w.g. (250 Pa)
> **Typical Applications:** Chemical/Corrosive Environments, High Moisture Environments, General HVAC, Exhaust Applications, Marine, Swimming Pools, Wastewater Treatment

WAB
FIBERGLASS UPBLAST CENTRIFUGAL ROOF VENTILATOR, BELT DRIVEN
> 14 to 40 inches (360 mm to 1,020 mm) impeller diameters
> Airflow to 21,500 CFM (36,500 m³/hour)
> Static pressure to 2 inch w.g. (500 Pa)
> **Typical Applications:** Chemical/Corrosive Environments, High Moisture Environments, General HVAC, Exhaust Applications, Marine, Swimming Pools, Wastewater Treatment

HA
FIBERGLASS CENTRIFUGAL WALL VENTILATOR, DIRECT DRIVE
> 7 to 18 inches (180 mm to 460 mm) impeller diameters
> Airflow to 2,625 CFM (4,500 m³/hour)
> Static pressure to 1 inch w.g. (250 Pa)
> **Typical Applications:** Chemical/Corrosive Environments, High Moisture Environments, General HVAC, Exhaust Applications, Marine, Swimming Pools, Wastewater Treatment

HAB
FIBERGLASS CENTRIFUGAL WALL VENTILATOR, BELT DRIVEN
> 12 to 30 inches (305 mm to 765 mm) impeller diameters
> Airflow to 9,800 CFM (16,700 m³/hour)
> Static pressure to 1 inch w.g. (250 Pa)
> **Typical Applications:** Chemical/Corrosive Environments, High Moisture Environments, General HVAC, Exhaust Applications, Marine, Swimming Pools, Wastewater Treatment
FIBERGLASS ROOF CURBS
PREFABRICATED ROOF CURBS

> 12" high prefabricated roof curb
> 3'/2" cant, corner gussets
> Treated 1'/2" x 3'/2" treated wood nailer
> Damper tray
> Options: 2" thick fiberglass insulation
KITCHEN & RESTAURANT EXHAUST FANS

Model BCRUR
Grease Hood Exhaust

KITCHENS and RESTAURANTS require specialized equipment for exhausting grease contaminated air. Ovens, stoves, grills and dishwashers produce moist, hot, smoky and grease-laden air that must be removed from the kitchen and discharged away from building surfaces. Twin City Fan & Blower offers a full line of UL 705 Supplement SC (formerly UL 762) listed kitchen exhaust fans and grease collection systems that are designed for kitchen and restaurant use.

IMPELLER TYPES
Backward Inclined Centrifugal, Mixed Flow

COMMON ACCESSORIES
Grease Box and Drain Connections, Belt Guards, Motor Covers, Inlet/Outlet Screens and Guards, Inlet/Outlet Companion Flanges, Insulated Jackets, Vented Roof Curbs, Special Coatings, Disconnect Switches

CERTIFICATIONS
AMCA Sound/Air and FEI, UL 705 Listed for Electrical, UL 705 Supplement SC (formerly UL 762) Listed for Grease-Laden Air, Miami-Dade County Hurricane Rating Per NOA No. 21-0803.03

APPLICATIONS
Kitchen Exhaust, Dishwasher Exhaust

Model BCRUR
Kitchen Exhaust

Model BCRUR
Kitchen Exhaust
BCRUR
CENTRIFUGAL KITCHEN ROOF EXHAUSTER, UPBLAST, BELT DRIVEN, UL LISTED FOR THE EXHAUST OF GREASE-LADEN AIR
> 24.80 to 39.37 inches (630 mm to 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

BCRWR
CENTRIFUGAL WALL KITCHEN EXHAUSTER, BELT DRIVEN, UL LISTED FOR THE EXHAUST OF GREASE-LADEN AIR
> 24.80 to 31.5 inches (630 mm to 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 Supplement SC (formerly UL 762) listed for grease-laden air

BCVR
FLAT-BLADED BACKWARD INCLINED UTILITY SETS, UL LISTED FOR THE EXHAUST OF GREASE-LADEN AIR
> 0.5 to 36.5 inches (270 mm to 930 mm) impeller diameters
> Airflow to 29,100 CFM (49,400 m³/hour)
> Static pressure to 8 inches w.g. (1,990 Pa)
> AMCA licensed for Sound, Air and Fan Energy Index
> UL 705 Supplement SC (formerly UL 762) listed for grease-laden air

QCLBR
LOW PRESSURE RESTAURANT MIXED FLOW FANS, UL LISTED FOR THE EXHAUST OF GREASE-LADEN AIR
> 12.25 to 73 inches (315 mm to 1,855 mm) impeller diameters
> Airflow to 105,000 CFM (178,400 m³/hour)
> Static pressure to 4.5 inches w.g. (1,120 Pa)
> AMCA licensed for Sound, Air and Fan Energy Index
> UL 705 Supplement SC (formerly UL 762) listed for grease-laden air
QSLR
QUIET MIXED FLOW RESTAURANT FANS,
UL LISTED FOR THE EXHAUST OF GREASE-LADEN AIR

- 18.25 to 89 inches (465 mm to 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 Supplement SC (formerly UL 762) listed for grease-laden air

CATALOG 1060

SELF-FLASHING VENTED ROOF CURBS
FOR HIGH TEMPERATURE APPLICATIONS

- Completely assembled unit, easier to install and less expensive than a field constructed curb
- Constructed of 18-gauge galvanized steel with continuously-welded seams with wide base flashing for weathertight seal to roof
- Meets NFPA-96 code requirements
- Top ledge covered with 3/16" polystyrene gasket
- Furnished with ventilation slots

CATALOG 4910

Kitchen Exhaust Application
Hotel & Restaurant Exhaust Application
SMOKE & HEAT EXHAUST FANS

OVERVIEW

SMOKE & HEAT EXHAUST FANS
Emergency smoke exhaust systems are designed to remove smoke and heat from buildings in the event of a fire. These systems play a crucial role in increasing occupant safety and allowing rescue personnel to safely enter burning buildings. Twin City Fan & Blower offers a full line of smoke and heat fans capable of withstanding a minimum temperature of 500°F for four hours or 1,000°F for 15 minutes. Our inline smoke and heat fans are also available in a vertical roof mount or horizontal discharge configuration featuring a stack cap with butterfly dampers and a fusible link designed to stay open in the event of a fire.

IMPELLER TYPES
Backward Inclined Centrifugal, Mixed Flow, Axial

COMMON ACCESSORIES
Belt Tube, Copper Extended Lube Lines, Access Doors, Belt Guards, Motor Covers, Inlet/Outlet Screens and Guards, Inlet/Outlet Companion Flanges, Insulated Jackets, Vented Roof Curbs, Special Coatings and Disconnect Switches

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

APPLICATIONS
General Emergency Smoke Exhaust, Elevator Shaft Exhaust/Pressurization, Stairwell Pressurization
BCRUSH
SMOKE & HEAT REMOVAL CENTRIFUGAL FAN, BELT DRIVEN
UL LISTED FOR SMOKE CONTROL SYSTEMS
> 12.25 to 49.21 inches (315 mm to 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 listed for Smoke Control Systems

BCVSH
SMOKE & HEAT FLAT-BLADED BACKWARD INCLINED UTILITY SETS,
UL LISTED FOR SMOKE CONTROL SYSTEMS
> 12.25 to 60 inches (315 mm to 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 listed for Smoke Control Systems

QCLBSH
SMOKE & HEAT LOW PRESSURE MIXED FLOW FAN,
UL LISTED FOR SMOKE CONTROL SYSTEMS
> 12.25 to 73 inches (315 mm to 1,855 mm) impeller diameters
> Airflow to 105,000 CFM (178,400 m³/hour)
> Static pressure to 4.5 inches w.g. (1,120 Pa)
> AMCA licensed for Sound, Air and Fan Energy Index
> UL listed for Smoke Control Systems

QSLSH
SMOKE & HEAT MIXED FLOW FAN,
UL LISTED FOR SMOKE CONTROL SYSTEMS
> 18.25 to 89 inches (465 mm to 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 listed for Smoke Control Systems
LUBSH
SMOKE & HEAT LOW PROFILE ROOF VENTILATOR, BELT DRIVEN
UL LISTED FOR SMOKE CONTROL SYSTEMS
> 21 to 60 inches (535 mm to 1,525 mm) impeller diameters
> Airflow to 59,800 CFM (101,600 m³/hour)
> Static pressure to 1 inch w.g. (250 Pa)
> UL listed for Smoke Control Systems

TUBSH
SMOKE & HEAT REMOVAL ROOF VENTILATOR, BELT DRIVEN
UL LISTED FOR SMOKE CONTROL SYSTEMS
> 24 to 60 inches (610 mm to 1,525 mm) impeller diameters
> Airflow to 70,700 CFM (120,100 m³/hour)
> Static pressure to 1.5 inches w.g. (370 Pa)
> AMCA licensed for Sound, Air and Fan Energy Index
> UL listed for Smoke Control Systems

TBSH
SMOKE & HEAT REMOVAL TUBEAXIAL FAN, BELT DRIVEN
UL LISTED FOR SMOKE CONTROL SYSTEMS
> 24 to 60 inches (610 mm to 1,525 mm) impeller diameters
> Airflow to 82,600 CFM (140,300 m³/hour)
> Static pressure to 1.25 inches w.g. (310 Pa)
> AMCA licensed for Sound, Air and Fan Energy Index
> UL listed for Smoke Control Systems

TCVSSH
SMOKE & HEAT VANEAXIAL FAN, STEEL IMPELLER
UL LISTED FOR SMOKE CONTROL SYSTEMS
> 12 to 54 inches (305 mm to 1,375 mm) impeller diameters
> Airflow to 80,000 CFM (135,900 m³/hour)
> Static pressure to 4 inches w.g. (990 Pa)
> UL listed for Smoke Control Systems
SELF-FLASHING VENTED ROOF CURBS
FOR HIGH TEMPERATURE APPLICATIONS

> Completely assembled unit, easier to install and less expensive than a field constructed curb
> Constructed of 18-gauge galvanized steel with continuously-welded seams with wide base flashing for weathertight seal to roof
> Meets NFPA-96 code requirements
> Top ledge covered with 3/16" polystyrene gasket
> Furnished with ventilation slots

TCTSSH
SMOKE & HEAT TUBEAXIAL FAN, STEEL IMPELLER
UL LISTED FOR SMOKE CONTROL SYSTEMS

> 12 to 54 inches (305 mm to 1,375 mm) impeller diameters
> Airflow to 80,000 CFM (135,900 m³/hour)
> Static pressure to 4 inches w.g. (990 Pa)
> UL listed for Smoke Control Systems
**Quick Reference**

### Centrifugal Roof & Wall Exhausters
- VC
- VCU / VCUB
- BCRU
- BCRUR
- BCRW / BCRWR
- BCRUSH
- BCRD
- DCLP / BCLP
- DCLH / BCLH

### Wall Mounted Fans
- WPD / WPB
- TCWPZ / TCWPX
- TCPE
- TCWF

### Vaneaxial Fans
- TCVA
- TCVX
- TCVS / TCVSSH
- VAHF

### Tubeaxial Fans
- TD / TB
- TCTA
- TCTS / TCTSSH
- ATAD
- TCBS
- TAHF
- TAMF

### Gravity Ventilators
- GRV
- MGR / MGI
- TEL / TIL

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INDUSTRIAL PROCESS AND COMMERCIAL VENTILATION SYSTEMS

CENTRIFUGAL FANS  |  UTILITY SETS  |  PLENUM & PLUG FANS  |  INLINE CENTRIFUGAL FANS
MIXED FLOW FANS  |  TUBEAXIAL & VANEAXIAL FANS  |  WALL MOUNTED FANS  |  ROOF VENTILATORS
CENTRIFUGAL ROOF & WALL EXHAUSTERS  |  CEILING VENTILATORS  |  GRAVITY VENTILATORS  |  DUCT BLOWERS
RADIAL BLADED FANS  |  RADIAL TIP FANS  |  HIGH EFFICIENCY INDUSTRIAL FANS  |  PRESSURE BLOWERS
LABORATORY EXHAUST FANS  |  FILTERED SUPPLY FANS  |  MANCOOLERS  |  FIBERGLASS FANS  |  CUSTOM FANS

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