

# COMMERCIAL SOLUTIONS OVERVIEW



► OUR PRODUCTS.  
OUR PARTNERS.  
BETTER WORLD.



# ENERGY EFFICIENT. SUSTAINABLE DESIGNS. QUALITY PRODUCTS.

*With one of the most comprehensive lines of commercial supply and exhaust fans for the HVAC Plan and Spec market, Twin City Fan & Blower provides our customers with the exact product for their exact needs. We have a fan solution for virtually every application.*



Elkton, SD  
Manufacturing Facility



Plenum Fans Ready to Ship

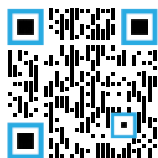


Products in Assembly Department

## WHO WE ARE

Twin City Fan & Blower is an industry-leading designer and manufacturer of fans focused on energy efficiency and sustainable design practices. With one of the most comprehensive lines of commercial supply and exhaust fans for the HVAC Plan and Spec market, and the industry's most experienced engineering staff and sales representatives, Twin City Fan has the solution to meet the needs of your project.

In addition to an impressive breadth of product offerings, Twin City Fan is well known for its technical design capabilities, comprehensive testing services and responsive sales team. Due to the company's extensive expertise and long-standing reputation for proven quality, Twin City Fan products continue to be specified around the globe – with expanded manufacturing and service operations located in the U.S., Europe, India, China, Singapore and the Middle East.



Scan for More Information  
About Our Commercial Solutions





# HIGH-QUALITY MANUFACTURING

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

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



*Aluminum Forming in Elkton*

## AFTERMARKET PARTS

Twin City Fan's Aftermarket team specializes in evaluating existing equipment and providing long-term solutions to yesterday's problems. We approach the aftermarket from the perspective of building partnerships with our customers and taking extra steps to ensure that we understand what happened to the previous fan in the system prior to making new recommendations. Simply put, we do not operate just to sell our customers equipment once their originals break down or wear out.



- ▶ FANS FROM ¼ HP TO 15,000 HP
- ▶ WIDEST RANGE OF MATERIALS
- ▶ FULL RANGE OF TESTING
- ▶ LARGEST INSTALLATION BASE

*Whether you need common replacement parts or a backup supply of spare parts for process critical applications, we can help keep you up and running. Even if you're not sure which part you need, our team can assist you in selecting the right part for your fan – regardless of the manufacturer.*



Pharmaceutical



Commercial Buildings

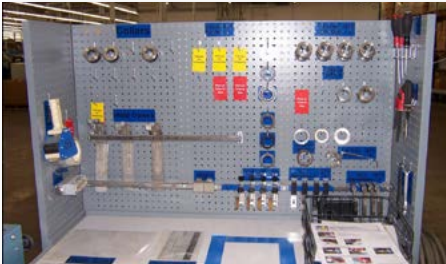
## PRODUCTS FOR EVERY MARKET

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 commercial industries and markets we support with a full line of products.

*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*

*Focused on energy efficiency and sustainable design practices for the fan industry.*

## 5S METHODOLOGY



5S Toolbench

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.



→ SORT → STRAIGHTEN → SHINE  
→ STANDARDIZE → SUSTAIN

# 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. We partner with you from the start and are dedicated to fine-tuning our offerings to your exact specifications. And our consistent post-sale service is designed to a single objective: responding to your needs.

Check out our Case Studies library at [www.tcf.com/resources/case-studies](http://www.tcf.com/resources/case-studies) to read about some of the customized solutions we have developed for our customers.

"Mass-customized" means you get cost efficiencies from an incredibly broad range of standard products, plus project-specific flexibility that lets us build on and customize our exceptional offerings. We've earned a reputation for having the fastest turnaround and delivery times in the industry, but we're most proud of offering a one-stop solution and a common goal to live up to your highest expectations.

TCF does not shy away from the unknown as we can provide FEA analysis, non-destruction testing, fatigue analysis for low or high cycling, and vibration analysis.

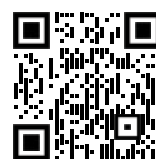


FULL RANGE of COMMERCIAL FAN SOLUTIONS



# 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.



Download Fan Selection Software



# STATE-OF-THE-ART TESTING LABORATORY

*For many commercial applications, UL 705 safety testing is required to ensure that the motor in a power roof ventilator will withstand voltage fluctuations, overheating and a variety of other abnormal circumstances.*

## IN-HOUSE SERVICES

- ✓ 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



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-Accredited Reverberant Sound Room*



*AMCA 210 Performance Testing*



*Overspeed Testing*



# ON-SITE SERVICES

## 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



*Installation & 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.

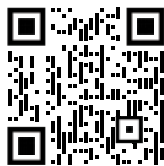
- ☑ Installation and Commissioning
- ☑ Vibration/Spectrum Analysis
- ☑ Motion Amplification
- ☑ Non-Destructive Evaluation (NDE)
- ☑ Balance & Alignment
- ☑ Preventive Maintenance
- ☑ Mechanical Inspections/Repair
- ☑ Troubleshooting/Technical Support

One of the most comprehensive lines of commercial supply and exhaust fans for the HVAC Plan and Spec market



# 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 | PRESSURE BLOWERS | LABORATORY EXHAUST FANS | FILTERED SUPPLY FANS  
MANCOOLERS | FIBERGLASS FANS | CUSTOM FANS



Full Line Catalog



[WWW.TCF.COM](http://WWW.TCF.COM)

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