

FOR ALL YOUR AIR HANDLING NEEDS

FULL PRODUCT LINE BROCHURE



ABOUT CHICAGO BLOWER CORPORATION



Chicago Blower Corporation has been designing and manufacturing pre-engineered and heavy duty fans & blowers for over 70 years. Our privately held company was founded in February 1947 by Mr. Fredrick H. Gohl Sr. and has been growing ever since. What began with only four employees in a small Chicago factory has grown into our vast Glendale Heights, IL plant, that is the center of CBC's world operations where engineering, fabrication, testing, inside sales, accounting, purchasing, and marketing all work together to maintain our reputation for exceptional performance and reliability.

In 1952, we became the 1st fan company to design and sell a centrifugal fan with an airfoil blade, and have been setting the industry standard ever since. Today, our air handling products are recognized in the market for their premium industrial quality and ability to serve a variety of industries and applications. We offer an extensive product line that will exceed all of your air handling needs while reducing energy usage and sound.

You can find our products all over the world with the help of over 100 manufacturers' representatives selling for us throughout the United States and Canada as well as international licensees in 20 other countries who manufacture and sell our products. Wherever you are, "We want you to enjoy doing business with us."



Fredrick H. Gohl Sr.
Founder

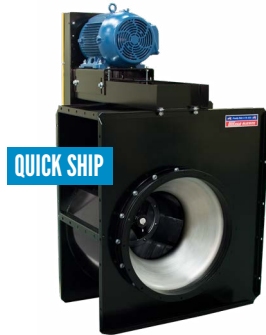
Why CBC?

- ISO 9001 Certified
- Proudly Made in the USA
- All Welders AWS Certified
- 250,000 Sq.Ft. Manufacturing Facility
- AMCA Accredited Laboratory
- AutoCAD & Solid Works Drawings Available in 2D & 3D
- Axial/Centrifugal/Pressure Blowers Available in a Range of Sizes
- 50 CFM to 1,000,000 CFM
- Pressures up to 108" SP WG on a Single Fan/Blower
- HP to 2,500 HP Capability
- Sizes From 8" to 150" Diameter (Over 30 ft Tall Fan)
- Start Up Commissioning & Installation Available
- 304/316/347 SS, Aluminum, Hastelloy, Ferralium & Other Materials
- Custom Department w/ Dedicated Engineers to Design the Fan That Fits Your Needs
- Provide All Major Suppliers for Auxiliary Equipment
- API & Customer Specifications Met
- Aux Equipment: Silencers, Dampers, Air Preheaters, Vibration Bases, Actuators, Evase, Transition Pieces, Rainhoods, Motors, etc.
- Coatings: Inorganic Zinc, Polyurethane, Epoxy, Enamel, etc.
- Monitoring: Vibration Probes Monitor, Temperature Sensors Probes, Speed Monitor (Pulsar Wraps, Tach Holes) etc.
- Bearings: Grease, Oil Mist, Static & Circulating Oil, Air Cooling & Other Lubricating Options
- Fan Modifications: Spark Resistant Construction, Blade & Housing Liners, Dimensional Matching, Dual Drive Units, Turbine Drive, etc.
- Testing: AMCA Performance Testing, FEA Analysis, Cycle Testing, NDE, Ultrasonic, Stress Relief All Available
- Over 20 Licensees Around the World w/mfg in China, India, South America, & More
- No Fan Too Special or Too Difficult & Will Always Exceed Our Customer's Needs

CENTRIFUGAL FANS

Airfoil Fans

Efficient Choice for Clean Air, Fumes, Light Dust



SQA Square Fans

Versatile square fan housings are flanged on all sides for mounting in any of four discharge positions. Adjustable motor base mounts to all sides. Temperatures to 650° F.

- Sizes: 8-3/4 to 44-1/2
- Volumes to 70,000 CFM
- Pressures to 18" wg

[Request Bulletin SQA](#)



Direct Drive Fans

Compact direct connected fans are ideal for packaged supply, exhaust, combustion air applications. Options for partial width construction. Temperatures to 200° F.

- Sizes: 8-3/4 to 30
- Volumes to 27,386 CFM
- Pressures to 22" wg

[Request Bulletin SQAD](#)



High Volume Fans

Design 10A fans are for high volume clean air and most light industrial applications. Single or double width, construction classes I-III. Temperatures to 800° F.

- Sizes: 49 to 80-3/4
- Volumes to 284,000 CFM
- Pressures to 16" wg

[Request Bulletin ACF](#)



Single Width

Known for high efficiency, low sound levels, and low horsepower, the Design 51 fan is used extensively in industrial supply and exhaust systems.

- Sizes: 135 to 807
- Volumes to 240,000 CFM
- Pressures to 22" wg

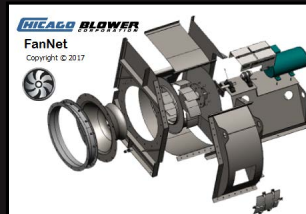
[Request Bulletin DFOS](#)

QUICK SHIP

Many Chicago Blower fans are identified as Quick Ship and available for delivery in just 2-3 days. Most fans are offered with alternate wheel types and construction plus performance and convenience options.

FanNet

Refer to Chicago Blower's FanNet for performance, fan curves and sound data. For software and assistance, contact your local Chicago Blower sales engineer.



Packaged Forced Draft

Direct drive Arrangement 4 PFD packaged fans with reinforced airfoil wheels are designed for higher pressure supply air applications, such as packaged boilers. Steep, stable pressure curve allows near constant air delivery. Three wheel designs for all standard motor speeds offer a broad performance range.

- Sizes: 2000 to 4412
- Volumes to 65,000 CFM
- Pressures to 51" wg

[Request Bulletin PFD](#)



Industrial Airfoil Fans

High efficiency airfoil wheel combined with belt drive flexibility ideal for combustion air, product cooling, high pressure drying and supplying air, liquid agitation applications. Optional single surface backward curved wheel for light dust loads. Fan features heavy duty roller bearings and shaft, rugged base mount. Available in Arrangements 1 and 9 belt drive; Arrangement 8 direct drive.

- Sizes: 2700 to 6600
- Volumes to 170,000 CFM
- Pressures to 40" wg

[Request Bulletin IAF](#)

CENTRIFUGAL FANS

Airfoil Fans (cont.)

Efficient Choice for Clean Air, Fumes, Light Dust



Double Width

Designed for greater volumes, the double width Design 51 is ideal for variable air volume systems and available with Chicago's exclusive Inlet Volume Control.

- Sizes: 135 to 807
- Volumes to 425,000 CFM
- Pressures to 22" wg

[Request Bulletin DFO](#)



High Efficiency Plug Fans

Wheel is installed directly inside ovens and dryers with outside drive panel. Ideal for high temperature installation with insulated walls. Temperatures to 1000° F.

- Sizes: 12 to 60
- Volumes to 156,000 CFM
- Pressures to 20" wg

[Request Bulletin BCPF or SQPF](#)



DD Plug Fans

When Direct Drive plug fans are coupled with variable frequency drives, performance is not limited to synchronous motor speeds. Temperatures to 180° F.

- Sizes: 12-1/4 to 30
- Volumes to 25,900 CFM
- Pressures to 12" wg

[Request Bulletin SPFD](#)



Plenum Fans

Unhoused fans for easy installation directly into a plenum. Ideal for retro applications to expand system performance within the same space. Temperatures to 140° F.

- Sizes: 135 to 807
- Volumes to 230,000 CFM
- Pressures to 17" wg

[Request Bulletin DFOF](#)

Backward Inclined

Single-surface Bladed Wheels for Corrosive Air, Industrial Process Exhaust



SQB Square Fans

Fans combine the "B" wheel with the capability of exhausting dirty industrial process air, and Chicago's versatile square housing. Temperatures to 650° F.

- Sizes: 12-1/4 to 44-1/2
- Volumes to 70,000 CFM
- Pressures to 17" wg

[Request Bulletin SQB](#)



BI Industrial Fans

Design 10A fans are for high volume clean air and most light industrial applications. Single or double width, construction classes I-III. Temperatures to 800° F.

- Sizes: 135 to 807
- Volumes to 263,000 CFM
- Pressures to 30" wg

[Request Bulletin BCF or DFOB](#)



PBI Packaged Fans

Designed initially for dust collection applications, the Design 64 provides a choice of 12 fan sizes and comes with a 3-year warranty (an industry 1st). Temperatures to 200° F.

- Sizes: 122 to 365
- Volumes to 46,100 CFM
- Pressures to 23" wg

[Request Bulletin PBI](#)



High Pressure Backward Curved

An industrial backward curved fan available as a pre-engineered fan line, the Design 95 delivers the reliability of a custom designed fan at the price and lead time of a standard production fan. The wheel uses heavy backward curved blades designed to handle dusty and harsh environments. The solid steel blades are also ideal for custom applied corrosion resistant coatings. Temperatures to 800° F.

- Sizes: 182 to 890
- Volumes to 385,000 CFM
- Pressures to 40" wg

[Request Bulletin BCHP](#)

CENTRIFUGAL FANS

Pressure Blowers

For Combustion Air, Process Applications, Pneumatic Conveying



QUICK SHIP



Cast Aluminum

Design 38 blowers for fume/dust control, forced air drying and cooling. Match multiple wheels/inlets to eight housing sizes to meet required performance. Temperatures to 200° F.

- Sizes: 800 to 1829
- Volumes to 5,000 CFM
- Pressures to 20" wg

Request Bulletin CAPB

Single Stage

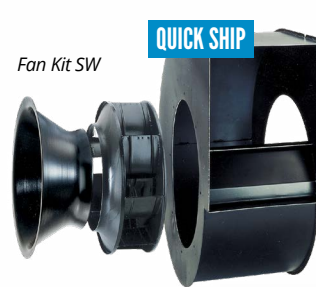
Design 53 blowers are suited for pneumatic conveying, combustion, and various other high pressure applications. Available in aluminum, and steel wheel styles up to 650° F.

- Sizes: A to R
- Volumes to 18,000 CFM
- Pressures to 91" wg

Request Bulletin CPB

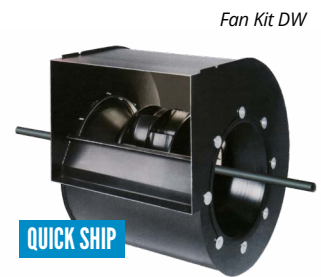
Components

For OEM Requirements



Fan Kit SW

QUICK SHIP



Fan Kit DW

QUICK SHIP

Single/Double Width

Wheels, housings, inlet cones and inlet vane controls are available for packaged equipment. Select from airfoil or backward inclined blades.

- Sizes: 100 to 490
- Volumes to 158,000 CFM
- Pressures to 20" wg

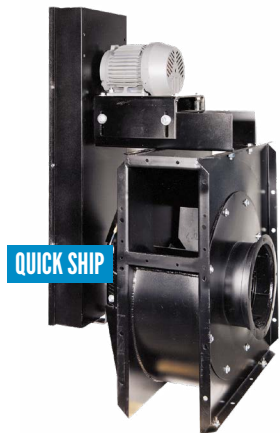
For Single Width Request Bulletin SAFK
For Double Width Request Bulletin DAFK



Airfoil Wheel
with Custom
Blue Paint

Radial Bladed Fans

Pre-Engineered Fans for Dirty Airstreams, Material Handling



QUICK SHIP

SQI Industrial Fans

Heavy Duty "LS" wheel exhausts harsh corrosive airstreams. Compact industrial fan with gusset mounted bearings to provide a compact arrangement. Temperatures to 650° F.

- Sizes: 5 to 17
- Volumes to 17,000 CFM
- Pressures to 19" wg

Request Bulletin SQI



QUICK SHIP

ICF Industrial Fans

Industrial Centrifugal Fans with flat bladed wheel resists material buildup while maintaining balance. Heavy duty shaft and bearings. Temperatures to 800° F.

- Sizes: 7 to 41
- Volumes to 120,000 CFM
- Pressures to 40" wg

Request Bulletin ICF



Industrial Radial Tip

With rugged radial tipped wheels, the IRT is ideal for induced draft, industrial dust collection, and most harsh airstreams. The fan is available in belt drive Arrangement 1 and 9 configurations plus direct drive Arrangement 8.

- Sizes: 3000 to 6000
- Volumes to 160,000 CFM
- Pressures to 33" wg

Request Bulletin IRT

VANE AXIAL FANS

For Ventilation, HVAC, Industrial Applications

Adjustable Pitch

for System Balancing, Seasonal Changes

Adjustable pitch fans are recommended for installations where air demands may change but continuous automatic control is not needed. Blade pitch is set externally at the hub to alter air volume or pressure. Aluminum alloy airfoil blades and hub assure reliable performance. Direct drive and belt drive.

- Sizes: 1650 to 8075
- Volumes to 260,000 CFM
- Pressures to 20" wg

[Request Bulletin VAV](#)



Controllable Pitch

for Variable Air Volume Systems

Sensors compensate for changes in temperature, humidity, air flow, gas concentration or air quality by altering the blade pitch to increase or decrease air volume or pressure. Fan is ideal for VAV systems and for industrial applications requiring a constant environment regardless of air demand.

- Sizes: 1650 to 8075
- Volumes to 260,000 CFM
- Pressures to 15" wg

[Request Bulletin VAV](#)

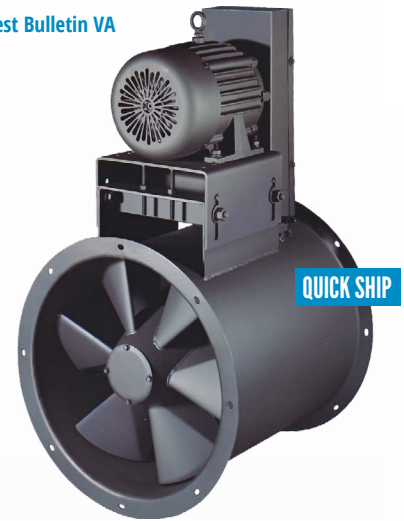


Fixed Pitch

Compact Design 34 fans are designed for general industrial, non-VAV applications. Welded steel wheels, heavy gauge housings. Drive adjustment varies volume/pressure.

- Sizes: 15 to 54-1/4
- Volumes to 108,000 CFM
- Pressures to 5" wg

[Request Bulletin VA](#)



Panel/Tubeaxial Fans

for General, Industrial Ventilation

Direct drive adjustable pitch airfoil blades are precision molded from glass-reinforced resins. To achieve maximum performance and efficiencies to 70%. Propellers are furnished with three to twelve blades pre-set at the prescribed pitch, from 4° to 28°, and computer matched to available motors.

Panel Fans

- Sizes: 14 to 48
- Volumes to 64,000 CFM
- Pressures to 2" wg

- Request Bulletin DCP

Tube Axial

- Sizes: 16 to 48
- Volumes to 65,000 CFM
- Pressures to 3" wg

- Request Bulletin DCT

Adjustable Pitch Wheels

Blades adjustable to any pitch, providing the fine tuning to meet precise OEM requirements.

- Request Bulletin APW



CUSTOM FANS

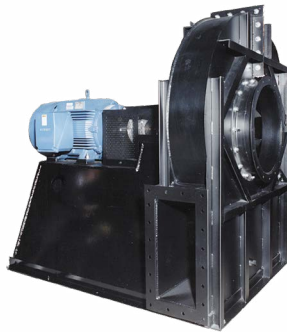


Mechanical Draft Fans

A wide selection of airfoil, backward curved and radial tip wheel designs are available for forced and induced draft applications. Typical installations include incinerators, baghouses, kilns, furnaces as well as other custom processes. Fans are custom built in most arrangements, fully factory completed, and field erected fans.

- Wheels to 146
- Volumes to 1,000,000 CFM
- Pressures to 70" wg

For Airfoil Request Bulletin AF/BC
For Radial Tip Request Bulletin RT

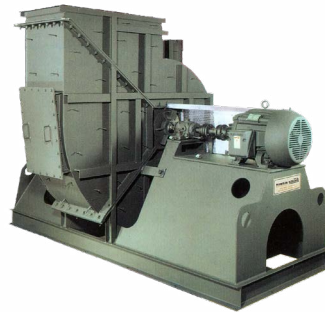


Pressure Air Fans

Heavy radial wheels are recommended for pollution control applications, such as continuous duty of primary air on burners, pulverizers, fluidizers and scrubbers. Options include abrasion and corrosion resistant construction materials. Variable widths and diameters provide exact performance with direct drive convenience.

- Wheels to 150
- Volumes to 440,000 CFM
- Pressures to 108" wg

Request Bulletin PA



API Fans

All custom fans are available with API 673 and 560 construction features to meet the stringent demands of the petroleum industry. Although fans are built for a variety of refinery applications, each one is individually engineered using one of 15 distinct designs to fulfill performance specifications and the unique demands of the installation.

Request Bulletin API

Industrial Dampers

Chicago manufactures stack and fan dampers for most applications. Included are pre-engineered Inlet Volume Controls (IVC), plus Custom Outlet Dampers, Butterfly Dampers and Inlet Box Louvre Dampers, both the Pre-Spin and Opposed Blade types.

- Request Bulletin ID



Complete all of your fan engineering calculations as well as track your fan orders on the new Chicago Blower Fan App. Equipped with an engineering calculator, order tracking system, and all the Chicago Blower bulletins and manuals. This Chicago Blower Fan App is easy and ready to use wherever you are.



Let us provide you with a solution. ➔



SECOND CITY
METAL FABRICATION

A division of Chicago Blower Corporation

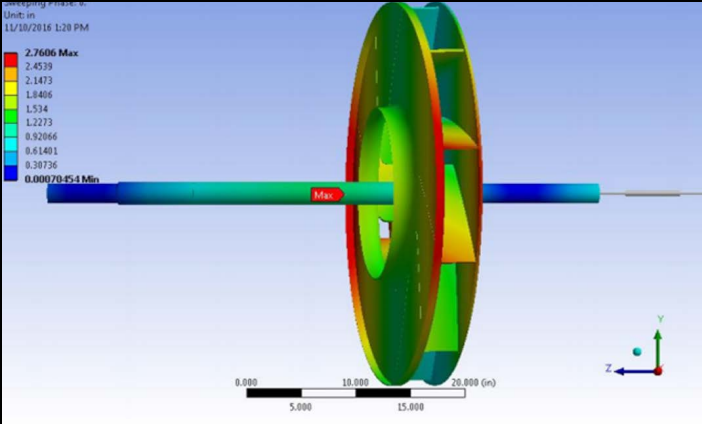
Also offering welding, cutting & forming services through our new fabrication division. Contact us for help with ductwork, transition pieces, cyclone assemblies, support systems, and more.

Contact Us Today!

630-534-4516

secondcitymetalfab.com

info@secondcitymetalfab.com



SETTING THE STANDARD FOR QUALITY

Innovative Engineering through Application Analysis

Chicago Blower Fans are also available worldwide:

- Argentina
- Australia
- Azerbaijan
- Belarus
- Belgium
- Brazil
- China
- Colombia
- Estonia
- Georgia
- India
- Indonesia
- Israel
- Italy
- Kazakhstan
- Korea
- Kyrgyzstan
- Latvia
- Lithuania
- Luxembourg
- Mexico
- Mozambique
- Netherland
- New Zealand
- Norway
- Russia
- Saudi Arabia
- Singapore
- South Africa
- Spain
- Sweden
- Taiwan
- Tajikistan
- Thailand
- Turkey
- Ukraine
- Uzbekistan
- Venezuela
- Zambia
- Zimbabwe



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