

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 custom fans & blowers for over 75 years. Our privately held company was founded in February 1947 by 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 first 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 40 manufactures' representative offices selling to us throughout the United States and Canada as well as international licensees in more than 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 500,000 CFM Pressures over 110" 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, Fornalium & 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
- Air Equipment: Silencers, Dampers, Air Preheaters, Vibration Bases, Actuators, Fans, Transition Pieces, Rainhoods, Motors, & more
- Coatings: Inorganic Zinc, Polyurethane, Epoxy, Enamel, & more
- Monitoring: Vibration Probes Monitor, Temperature Sensors Probes, Speed Monitor (Pulsar Wraps, Tach heads) 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, IFE Analysis, Cycle Testing, NDE, Ultrasonic, Stress Relief all Available Over 20 Licenses 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



SQA Square Fans

Design 36A: SQA

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

[Open Bulletin SQA](#)



Direct Drive Airfoil Fans

Design 36A: SQAD

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

- Sizes: 8-3/4 to 36 1/2
- Volumes to 52,000 CFM
- Pressures to 22" wg

[Open Bulletin SQA or SQD](#)



High Volume Fans

Design 10A: SW/DW

These fans are primarily used on high volume clean air 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

[Open Bulletin ACF](#)



Airfoil Single Width

Design 51A: SW

Known for high efficiency, low sound levels, and low horsepower, the Design 51 fan is used extensively in industrial supply and exhaust systems. Temperatures to 800°F

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

[Open Bulletin DFOS](#)



Airfoil Double Width

Design 51A: DW

Designed for greater volumes, the double width is ideal for variable air volume systems and available with Chicago's exclusive Inlet Volume Control. Temperatures to 140°F

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

[Open Bulletin DFO](#)



Industrial Airfoil Fans

1903 IAF

A high efficiency airfoil wheel with belt drive flexibility is ideal for combustion air, product cooling, high pressure drying, supplying air, and liquid agitation applications. Optional single surface backward curved wheel for light dust loads. Fan features heavy duty bearing, oversized shaft, and rugged base mount. Arrangements 1 and 9 belt drive; Temperatures to 800°F

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

[Open Bulletin IAF](#)



Packaged Forced Draft

Design 1902/1903/1904 PFD

Direct drive arrangement 4 & 8 PFD packaged fans with reinforced airfoil wheels are designed for higher pressure 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. Temperatures to 200°F on arrangement 4 Temperatures to 800°F on arrangement 8

- Sizes: 2000 to 5414
- Volumes to 135,000 CFM
- Pressures to 58" wg

[Open Bulletin PFD](#)

Centrifugal Fans

Airfoil Fans

Efficient Choice for Clean Air, Fumes, Light Dust



Belt Drive Plenum

Design 51A: PA

Unhoused fans for easy installation directly into a plenum. Ideal for air handlers & HVAC applications with clean air. Temperatures to 140°F

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

[Open Bulletin DFOP](#)



Direct Drive Plenum

Design 81 & D51 DD Plenum

Compact direct drive plenum fans. Ideal for air handling applications. Available with a modular housing to create a fan array allowing for multiple configuration options. Temperatures to 200°F

- Sizes: 122 to 660
- Volumes to 195,000 CFM
- Pressures to 18" wg

[Open Bulletin APF for D81](#)
[Open Bulletin DFOP for D51 DD Plenum](#)



High Efficiency Plug

Design 70 & Design 44

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

- Sizes: 122 to 600
- Volumes to 156,000 CFM
- Pressures to 20" wg

[Open Bulletin BCPF for D70](#)
[Request Bulletin SQPF for D44](#)



Direct Drive Plug

Design 44

When direct drive plug fans are coupled with variable frequency drives, performance is not limited to synchronous motor speeds. Temperatures to 200°F

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

[Open Bulletin SPFD](#)



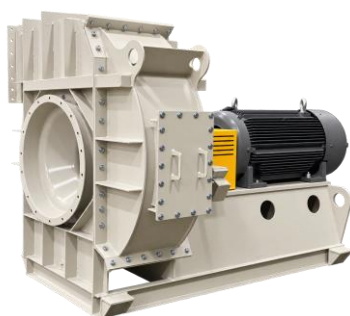
High Pressure BC

Design 95

An industrial backward curved fan available as a pre-engineered fan line, this fan 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

[Open Bulletin BCHP](#)



Packaged Backward Curve

Design 5500/5800: PBC

Direct drive packaged fans are designed for high pressure and high flow applications such as boilers and supply for primary air fans. Built to exceed the pressures of our PFD fan. Each size has variable effective wheel diameters to meet system specified desired performances. Temperatures to 200°F on arrangement 4
Temperatures to 800°F on arrangement 8

- Sizes: 3000 to 6000
- Volumes to 90,000 CFM
- Pressures to 80" wg

[Open Bulletin PBC](#)



SQB Square Fans

Design 36A: SQB

Fans combine the "B" wheel, with the capability of exhausting dirty industrial process air, and have 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

[Open Bulletin SQB](#)



Direct Drive BI Fans

Design 36A: SQBD

Compact direct connected fans are ideal for packaged supply, exhaust, combustion air, or where minor particulate is present. Options for partial width construction. Temperature to 200°F

- Sizes: 12-1/4 to 33
- Volumes to 36,000 CFM
- Pressures to 21" wg

[Open Bulletin SQBD](#)

Backward Curved/Inclined

Where efficiency meets particulate

Centrifugal Fans

Backward Inclined

Where efficiency meets particulate



BI High Volume Fans

Design 10A Type B: SW/DW

These fans are for high volume clean air and most industrial applications with light particulate. Single or double width construction. Classes I-III. Temperatures to 800°F

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

[Open Bulletin BCF for SW](#)
[Open Bulletin DFOB for DW](#)



PBI Fans

Design 64: PBI

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 first. Temperatures to 200°F

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

[Open Bulletin PBI](#)

Airfoil OEM Components

Fan Kit SW



Fan Kit DW



Single/Double Width

Design 41/64: Fan Kits

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

[Open Bulletin SAFK for SW](#)
[Open Bulletin DAFK for DW](#)



Airfoil Wheel with custom blue paint

Pressure Blowers

For Combustion Air, Conveying, Process Applications



Cast Aluminum

Design 38

Blowers for fume/dust control, forced air drying and cooling. Match multiple wheels/inlets to eight house sizes to meet required performances. Available in belt drive. Temperatures to 200°F

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

[Open 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 materials. Temperatures up to 650°F

- Sizes: A to W
- Volumes to 20,000 CFM
- Pressures to 120" wg

[Open Bulletin CPB](#)

Radial Fans

Pre-Engineered Fans for Dirty Airstreams, Material Handling



SQI Radial Square

Design 39: SQI

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

[Open Bulletin SQI](#)



Industrial Fans

Design 16A

Industrial Centrifugal Fans with flat bladed wheels resist material buildup while maintaining balance. Available with or without backplate. Heavy duty shaft and bearings. Temperatures to 800°F

- Sizes: 11 to 45
- Volumes to 120,000 CFM
- Pressures to 40" wg

[Open Bulletin ICE](#)

Centrifugal and Axial Fans

Radial Tip Pre-Engineered for Dirty Airstreams, Material Handling



Industrial Radial Tip

Design 4800

With rugged radial tipped wheels, the IRT is ideal for induced draft, industrial dust collection, and most harsh airstreams.

Arrangement 1 and 9 configurations plus direct drive Arrangement 8.

Temperatures to 800°F

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

[Open Bulletin IRT](#)

Panel/Tubeaxial Fans For General Ventilation



Panel Fans

Design 37: DCP

- Sizes: 14 to 48
- Volumes to 64,000 CFM
- Pressures to 2" wg
- Temperatures to 140°F

[Open Bulletin DCP](#)



Tubeaxial Fan

Design 37: DCT

- Sizes: 16 to 48
- Volumes to 65,000 CFM
- Pressures to 3" wg
- Temperatures to 140°F

[Open Bulletin DCT](#)



Adjustable Pitch

Design 47: AP

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. Available in direct drive and belt drive

- Sizes: 1650 to 8112
- Volumes to 260,000 CFM
- Pressures to 20" wg

[Open Bulletin VAV](#)



Controllable Pitch

Design 47: CPP or CPM

Sensors compensate for changes in temperature, humidity, air flow, gas concentration, or air quality by alternating 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 demands.

- Sizes: 1650 to 8112
- Volumes to 260,000 CFM
- Pressures to 15" wg

[Open Bulletin VAV](#)



Fixed Pitch Belt Drive

Design 34: M/W Pitch

Compact Design 34 fans are designed for general industrial, non-VAV applications. Welded steel wheels, heavy gauge housing. Drive adjustment varies with volume and/or pressure. Temperatures to 140°F

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

[Open Bulletin VA](#)

Vaneaxial Fans For Ventilation, HVAC, Industrial Applications

Custom Fans

Custom Fans Designed for you, for your needs



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 build in most arrangements, fully factory completed, and field erected. Temperatures to 800°F

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

[Open Bulletin AF/BC for Airfoil](#)

[Open Bulletin RT for Radial Tip](#)

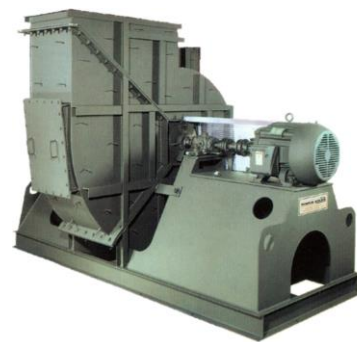


Pressure Air Fans

Heavy radial wheels are recommended for pollution control applications, such as continuous duty of primary air burners, pulverizers, fluidizers, and scrubbers. Options include abrasion and corrosion resistant construction materials. Variable widths and diameters provide exact performance with direct drive convenience. Temperatures to 800°F

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

[Open 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. Temperatures to 800°F

[Open Bulletin API](#)

Industrial Dampers Controlling flow and managing performance



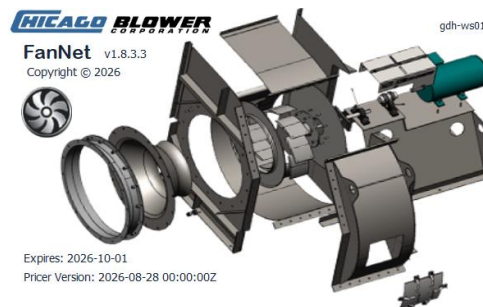
Industrial Dampers

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.

[Open Bulletin ID](#)



Selection Software



Refer to Chicago Blower's FanNet for performance, fan curves and sound data.

For software and assistance, visit www.chicagoblower.com

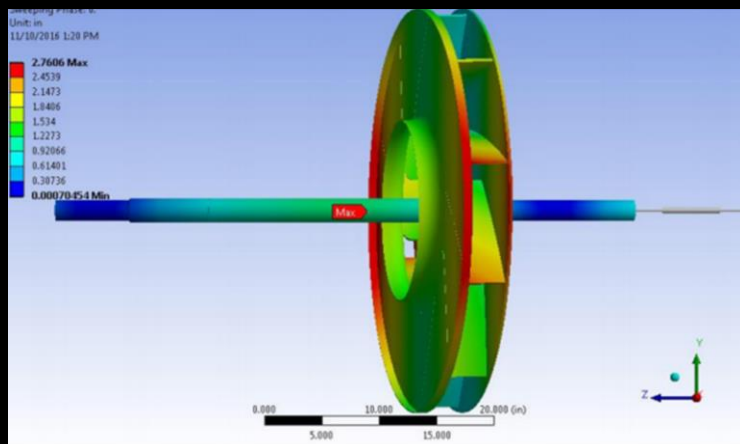


Setting The Standard For Quality

Innovative Engineering through Application Analysis

Chicago Blower Fans are also manufactured worldwide:

- Argentina
- Australia
- Brazil
- Chile
- China
- Estonia
- Germany
- India
- Indonesia
- Israel
- Malaysia
- Netherlands
- New Zealand
- Norway
- Singapore
- South Africa
- South Korea
- Spain
- Sweden
- Thailand
- Taiwan
- Venezuela



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