

AFBG

AIRFOIL & BACKWARDLY CURVED

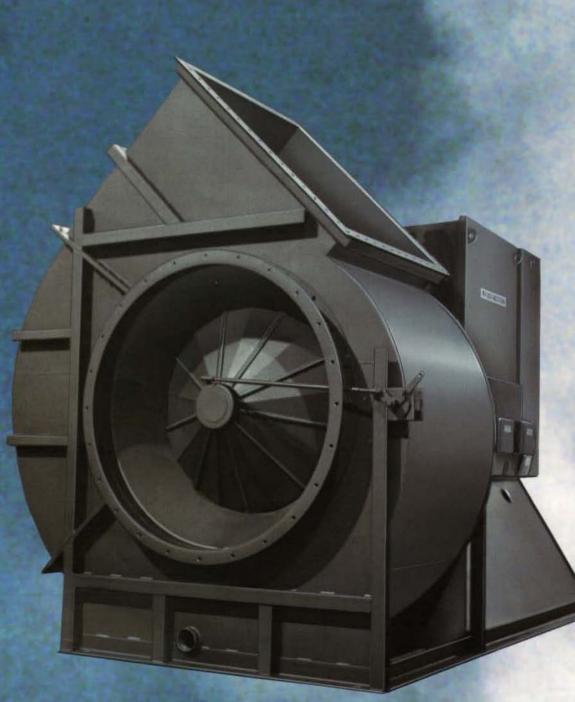
FANS



HICAGO



CUSTOM HEAVY-DUTY FANS



Meets Industry Demands for Precise Performance at Maximum Efficiency

The two most important criteria when specifying a custom heavy-duty fan are efficiency and reliability. Air handling systems are increasing in complexity with the addition of more restrictive emission controls and air cleaning devices. While the result has been a cleaner environment, system pressure requirements have risen significantly. As these requirements increase, greater levels of energy are needed to force the air or gas through the system. Operating efficiency of the fan has become much more critical. Every dollar saved on the purchase of a less efficient fan will be consumed in additional operating costs.

Preserving Our Energy for Generations to Come

Maximum fan efficiency will not only have a positive impact on the bottom line, it will have a positive impact on the environment. Greater fan efficiency results in lower power requirements and fewer natural resources consumed. Efficiency also influences sound levels.

The more efficient fan will run quieter than the less efficient fan. The quieter fan will need less sound insulating materials, or none at all.



Individually Computer Engineered and Sized

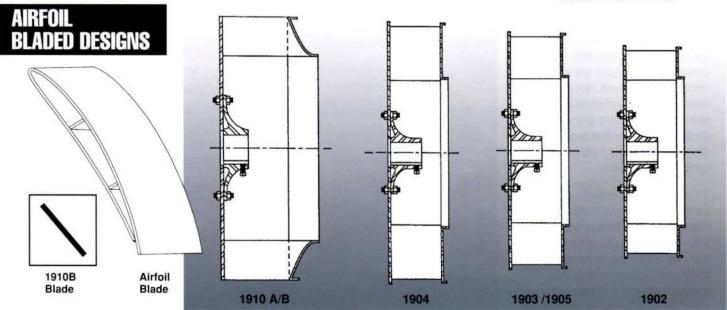
To cover the widest range of system requirements, Chicago offers a full family of airfoil and backwardly curved fan designs with overlapping performance envelopes. To maintain high efficiency and maximum economy, the system's pressure

and flow requirements are matched to one of eleven wheel designs with varying rotor widths and diameters. The selected fan is then sized to exact duty requirements. No more, no less.

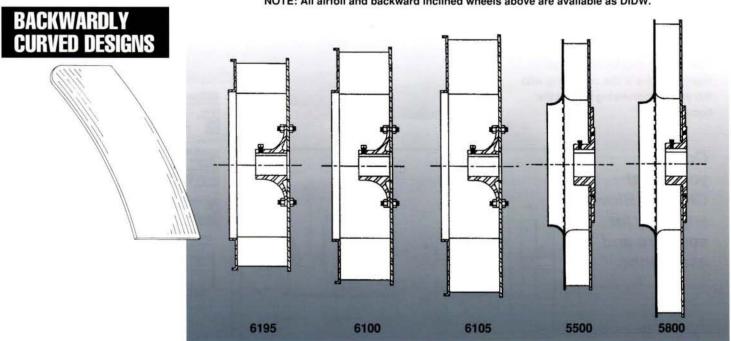
Wheels are available with either Chicago's proven hollow airfoil blades for clean air, or solid backward curved or backward inclined blades for dusty, dirty applications. With eleven rotor designs, custom sizing and duty matching blades, Chicago will build the fan to meet exact system performance specifications.

Reliability Through Quality Assurance

A fan's operation is only as reliable as the quality that went into building that fan. For example, the use of AWS certified welders has enabled Chicago to build heavy duty fans to the most demanding specifications. A strict Quality Assurance Program monitors every step in the fan building process and has helped Chicago Blower establish a solid reputation for fan reliability and corporate integrity. To assist system and process designers and specifiers select the right Chicago fan, Chicago Sales Offices are located nationwide and around the world.



NOTE: All airfoil and backward inclined wheels above are available as DIDW.





Fans designed for field erection are first fully assembled at the factory to guarantee accurate fit-up at the jobsite.









- A. Chicago builds their own inlet vane assemblies adding construction and control features to match each application.
- B. Packaged arrangements allow single piece shipments and dramatically reduce installation time and cost.
- C. In-house fabrication allows for better quality control.
- D. Rotatable fixtures assure uniform positioning and welding.

COMPLETE SERVICE FROM DESIGN TO START-UP



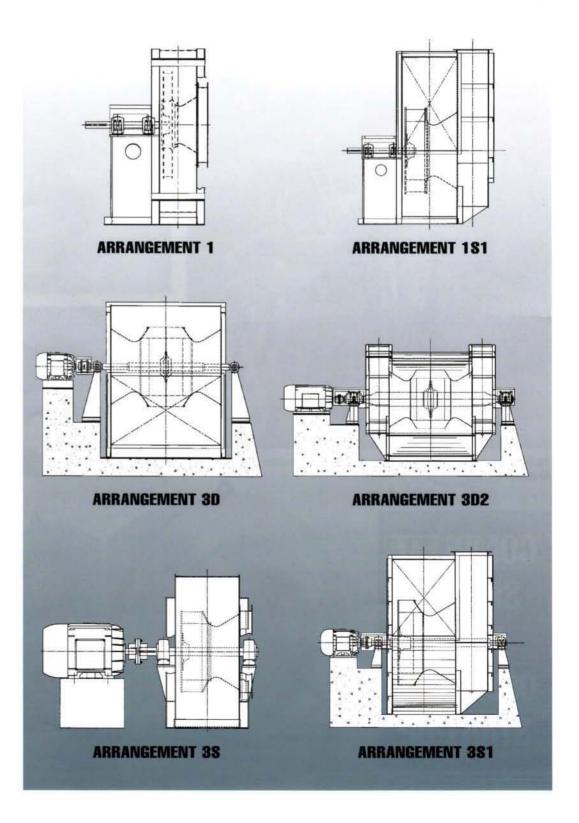


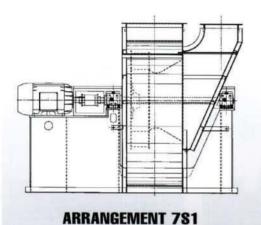
CHICAGO OFFERS CHOICE OF ARRANGEMENTS

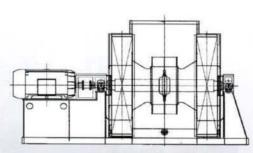
The choice of fan arrangements is determined by installation requirements and the size of the motor or turbine. Because there is an extensive range of needs, Chicago offers all the arrangements shown here.

Discharge orientation varies with the individual installation. The angle of the discharge, rotation of the wheel and the angle of the inlet box must all be established prior to construction. Chicago Airfoil and Backwardly Curved Fans can be built with any combination of rotation, discharge and inlet box.

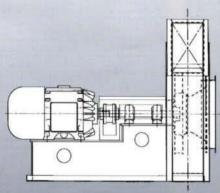
Application and installation assistance is available from experienced heavy duty fan engineers. For all your industrial fans, make Chicago your source.





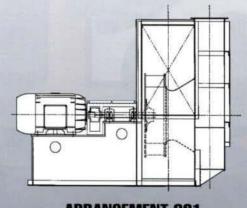


ARRANGEMENT 7D2



ARRANGEMENT 8

ARRANGEMENT 9H

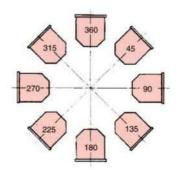


ARRANGEMENT 881

INLET BOX POSITIONS

Positions are always determined from the drive side of the fan.





ROTATION AND DISCHARGE DESIGNATION

Direction of rotation and discharge are viewed from the drive side of the fan. On dual driven units, the drive side is always the higher horsepower drive.



















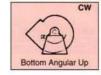












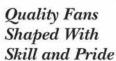




HICAGO

Innovative Engineering Through Application Analysis







Global Service Only a Click Away

Sales Offices Throughout North America

Chicago Blower Fans are also manufactured worldwide:

Argentina, Australia, Brazil, Chile, China, Colombia, Denmark, Germany, Greece, Holland, Hong Kong, India, Indonesia, Israel, Italy, Japan, Korea, Malaysia, New Zealand, Norway, Philippines, Portugal, Saudi Arabia, Singapore, South Africa, Spain, Sweden, Thailand, Taiwan, Turkey, Venezuela.



Your Primary Source For Every Fan Requirement

General Duty -

Airfoil and vane axial fans for clean exhaust or supply air

Industrial Duty -

Fans to handle dirty and corrosive environments

Heavy Duty -

Custom engineered fans for specific applications

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