



## EXCLUSIVE FEATURES

The new Westinghouse Compact Centriline® Fans have been designed and engineered to meet the highest standards for maximum efficiency, low operating cost, quietness, stability, and non-overloading horsepower. This new concept in design combines the reliable performance of scroll-type centrifugal fans with the space-saving advantages of axial type fans. Westinghouse Centriline fans are applicable for general building ventilation, commercial and industrial air-conditioning, industrial process supply and exhaust, drying and cooling, combustion air supply, etc.

### AIRFOIL CENTRIFUGAL WHEEL

The wheels employed in the Westinghouse Centriline Fans are of the backwardly inclined Airfoil blade type, an original design by Westinghouse. The streamlined rims are spun with smooth contours for close tolerance fit to die-formed blades. Trailing edges of the blades are welded and the leading edges are smoothly rounded. Blades are continuously welded to a heavy back plate and the spun intake rim. All wheels are given accurate static and dynamic balance to insure smooth operation. These wheels have demonstrated superior performance in thousands of scroll type Centrifugal Fans.

### HIGH EFFICIENCY, LOW OPERATING COST

The Centriline Fan provides smooth turbulent-free air flow through the tubular housing because of careful design of the streamlined inlet, Airfoil wheels, and multiple aerodynamic conversion vanes. The result is a high, broad efficiency curve illustrated on Page 4. With a broad efficiency curve, 75% of all performance selections can be made within the high efficiency area. This means lower horsepower resulting in lower operating cost for the life of the installation.

### QUIETNESS OF OPERATION

The wheel design allows for air expansion over the entire blade width, passing through the Airfoil blading with relatively low velocity and minimum turbulence. Correct orientation of wheel blades, combined with careful aerodynamic design of wheel, straightening vanes and casing, decreases air turbulence and increases pressure conversion efficiency — resulting in a quiet operating fan.

### TRUE NON-OVERLOADING HORSEPOWER

The horsepower curve peaks within the normal operating range and at maximum efficiency. This built-in protection assures that the motor selected will not be overloaded.

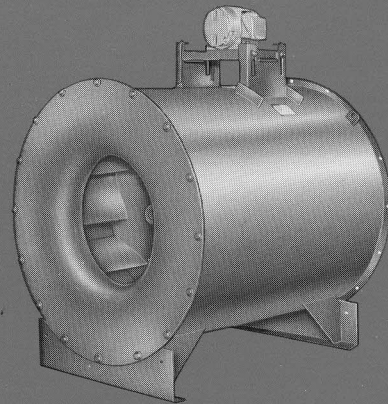
### STABLE PRESSURE CURVE

The inherent design of the AIRFOIL wheel results in a steep-rising pressure characteristic over a wide range of capacities. This assures minimum changes in volume with shifts in system pressure, providing exceptionally smooth operation.

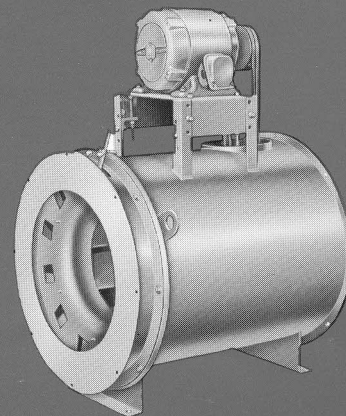
## Here are the advantages of the Compact Centriline Fan

- Airfoil Centrifugal Fan Performance with Airfoil bladed centrifugal wheel
- In-Line Air Flow Saves Space eliminates elbow and duct turns does the job in less than half the installed space
- Compactness Saves Space the fan unit itself is up to 50% smaller than scroll type fans and up to 22% shorter than competitive in-line fans
- Horizontal and Vertical Air Flow meets any installation need
- High Efficiency for low operating costs year after year
- Quietness so important for human comfort in modern day installations
- Fan Mounted Motor or separately mounted — your choice
- Sized Per AMCA Standards provide ease of selection
- Equal Inlet and Outlet Duct Connections use one size duct — installation is simpler, less costly

The Centriline Fan is available in eighteen sizes based on AMCA centrifugal wheel standards. Volumes range from 1000 to 170,000 cfm in pressure Classes I, II and III up through 11" static pressure.



Horizontal Arr. 9



Horizontal Arr.9  
with Spinning Control

