

JOY MANUFACTURING CO.

General Offices: Henry W. Oliver Building, Pittsburgh 22, Pa.

MANUFACTURERS OF VANEAXIAL FANS

DOMESTIC OFFICES

BIRMINGHAM, ALA.	920 Fifth Ave. N. (Crandall Eng. Co.)
	1814 First Ave. N. (Shook and Fletcher)
BOSTON 10, MASS.	89 Broad St.
BUTTE, MONT.	24 W. Granite St.
CENTRALIA, ILL.	Fifth and Chestnut
CHICAGO, ILLINOIS	307 N. Michigan Ave.
COMMERCE, OKLA.	111 Commerce St.
DALLAS, TEXAS	6540 Hines Blvd.
DENVER 2, COLO.	1646 Wazee St.
	(Schloss and Shubart)
DULUTH 2, MINN.	1 E. Michigan St.
EL PASO, TEXAS	117 N. Kansas St.
FAIRMONT, W. VA.	P. O. Box 1046
HUNTINGTON 14, W. VA.	742 Eighth Ave.
KNOXVILLE 2, TENN.	108 W. Main St.
LOS ANGELES 11, CAL.	2900 Santa Fe Ave.
MIDDLESBORO, KY.	501 N. 19th St.
NEW YORK CITY 7, N. Y.	30 Church St.
PHILADELPHIA 3, PA.	1617 Pennsylvania Blvd.
PITTSBURGH 13, PA.	4107 Sennott St.
PORTLAND 9, ORE.	1631 N. W. Thurman St.
SALT LAKE CITY 1, UTAH	117 W. 2nd South St.
SAN FRANCISCO 2, CAL.	155 Fell St.
SCRANTON 10, PA.	125 Adams St.

ST. LOUIS 10, Mo.	4120 Clayton Ave.
SEATTLE 4, WASH.	3410 First Ave. So.
SPOKANE, WASH.	1118 Ide Ave.
WASHINGTON 5, D. C.	1427 I St. N. W.

IN CANADA

GALT, ONT.	175 Beverly St.
HAILEYSBURY, ONT.	Ferguson Ave.
TORONTO, ONT.	208 Simcoe St.
CALGARY, ALTA.	902 Ninth Ave. West
MONTREAL, QUE.	5929 Decarie Blvd.
NORANDA, QUE.	54-14th St.
SIDNEY, NOVA SCOTIA	P. O. Box 233

EXPORT OFFICES

NEW YORK 6, N. Y.	Empire State Bldg.
LONDON W1, ENGLAND	6 Carlos Place
PARIS, FRANCE	18 Ave. Parmentier
BRUSSELS, BELGIUM	15 Rue de Grand-Hospice
JOHANNESBURG, SO. AFRICA	21 Sauer St. Ext.
N'DOLA, NOR. RHODESIA	
	Sullivan Mach. Co. (Africa) (Pty.) Ltd.
SYDNEY, N. S. W., AUSTRALIA	Scottish House
MEXICO CITY, MEX.	San Juan de Lelran 24
ANTOFAGASTA, CHILE	Casilla 570
RIO DE JANEIRO, BRAZIL	Caixa Postal 54, Copacabana

AND MORE THAN 500 DISTRIBUTORS THROUGHOUT THE WORLD

SERIES 1000 AXIVANE INDUSTRIAL AND COMMERCIAL FANS

Joy Series 1000 adjustable blade Axivane Industrial fans are available in 124 sizes ranging in volume capacity up to 100,000 cfm with pressures up to 9.6 in. W. G. Housing diameters range from 18 in. to 60 in. For complete specifications, construction details, and selector charts

giving pressure-volume range for each fan, write for bulletin number J-605.

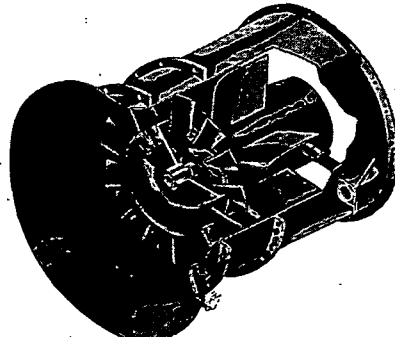
Joy Axivane Series 1000 fans are efficient, quiet, compact, flexible, and easy to install.

ADJUSTABLE BLADES

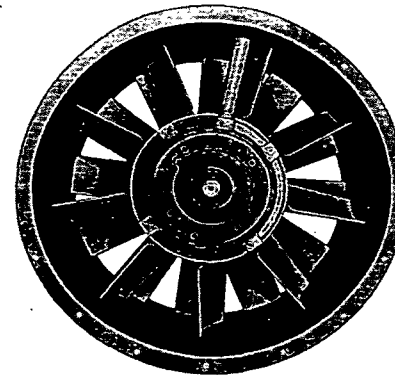
Joy Axivane Industrial Fans have the extra performance flexibility of adjustable blades. Adjustable blades, are standard equipment on all Series 1000 fans. The factory blade setting can be quickly changed to provide either a wide pressure range for any particular volume or a change in volume simply by loosening a lock nut with a wrench, setting the blades uniformly with the indicator, and re-tightening the lock nut. A permanent stop



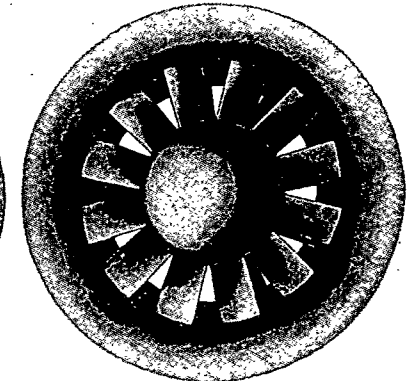
Blades are adjustable on the job by loosening one lock nut



Cutout drawing showing location of motor and compact construction



Rear view, showing vanes and motor



Front view, showing simplicity of construction

prevents setting blades in a position likely to overload the motor. Minimum blade settings are limited by the fan housing.

Adjustable blades permit on-the-job correction for unpredictable duct resistance or for poorly installed duct work.

MORE EFFICIENT

Stationary straightener vanes, located immediately behind the rotor, partially recover the rotative energy imparted to the air by the rotor, and re-establish axial flow to the air leaving the vanes. This eliminates excess turbulence at the point where the air enters the duct system and increases efficiency by decreasing pressure loss.

The Joy Axivane fan utilizes an aerodynamically efficient blade and stationary vane design.

QUIETER OPERATION

For equal weight and space the Joy Axivane fan is quieter than a centrifugal type fan of equal volume and pressure. The streamlined airflow from an Axivane fan makes sound insulation a simple and inexpensive operation when required for the ventilation and air conditioning of quiet spaces such as hospitals, auditoriums, radio stations, etc., where insulation against system noise must be used.

MORE COMPACT

Joy Axivane fans are built around the motor, the fan housing becoming an actual part of the duct system. This produces a more compact design than is possible with a centrifugal fan. An Axivane fan, in-

stalled on an in-line connection with ventilation ducts, parallel to and close by an overhead structure, may require 70 per cent less space than a conventional belt-driven centrifugal fan. The compactness of a Joy Axivane fan assures a maximum of net operating or rentable area. Fan rooms are virtually eliminated.

EASIER TO INSTALL

The Joy Axivane Series 1000 fan develops a greater volume and pressure per pound of fan and motor because of its compact, in-line construction. This light weight permits a simplicity of installation that minimizes installation costs and total weight by eliminating heavy foundations, complex duct offsets and elbows, drives, and guards. Axivane fans can be installed quickly and easily, even by relatively inexperienced or unskilled labor.

MATCHED ACCESSORIES

Inlet bells, screens, and fan supports are accessories designed to fit all Axivane Fan housings. In ordering, it is only necessary to state the model number with or without the accessories, as desired. If required with accessories these will be furnished to fit the fan model ordered without special number.

No matter how carefully a duct system is planned, an incorrectly selected inlet bell will reduce fan efficiency by increasing intake turbulence. This excess turbulence will also increase the noise level of the fan. When a fan takes its air directly from the weather, a plenum, a fan room, or from a duct system larger in circumference than the fan housing, a bell should be used.