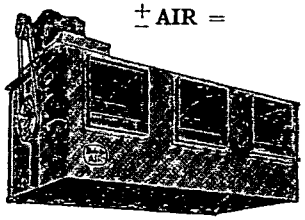
THE NEW YORK BLOWER COMPANY

GENERAL OFFICES • 32nd STREET & SHIELDS AVENUE • CHICAGO - 16
FACTORIES AT LAPORTE, INDIANA AND CHICAGO, ILLINOIS

Representatives in Principal Cities

FANS • BLOWERS • UNIT HEATERS • MAKE-UP AIR UNITS
AIR WASHERS • HEAVY DUTY HEAT SURFACE

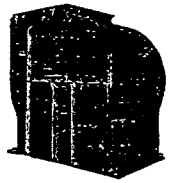
Make-up ± AIR =



M15—15,000 cfm

A unit that delivers, warmed, filtered, outside air to industrial spaces to replace exhausted air and balance minus pressure. Corrects draft conditions and uncontrolled infiltration. Made in 4 sizes from 5,000 cfm to 20,000 cfm. Described in *Bulletin 453*.

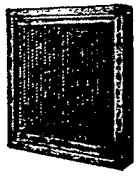
Type ME Centrifugal Fans



Capacities up to 101,000 CFM

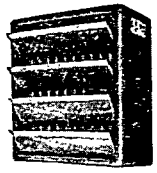
Slow speed wheels offered from 7½ to 15 in. and 36 to 66 in. Capacities up to 70,000 cfm. Quiet operating medium speed wheels with non-overloading horsepower characteristics for heating, ventilating and air conditioning or industrial applications. Wheel diameters from 18 in. to 66 in., with any speed or discharge required. Class I, II, III or IV construction. *Write for Bulletin 491.*

Steelfin Hot Blast Heating Surface



Extra heavy duty, fin-and-oval tube, all-steel, welded construction. A hot dip metallic coating over all, including headers, affords perfect bonding and conductivity. Suitable for continuous heating service on steam pressures up to 150 lb. *Bulletin 492.*

Comet Unit Heaters



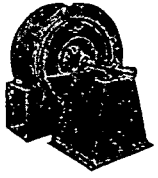
Heavy duty, welded steel, fin-and-tube heating element. Suitable for continuous heating service on steam pressures up to 150 lb or more. 9 sizes with capacities from 31 Mbh to 300 Mbh. *Bulletin 485.*

Comet Exhaustair



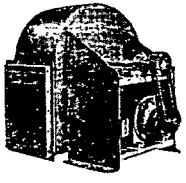
Delivers large volumes of air at low resistance and low current consumption. All wheels are machine balanced for smooth, vibrationless operation. Made in two types and eight basic sizes. Wheel diameters from 12 in. to 60 in. Direct or belted drive. Capacities from 400 cfm to 23,500 cfm. *Ask for Bulletin 494.*

Type GI Industrial and Heat Fans



For dust and gas removal, conveying of materials and handling hot gases. Housings, drives, and discharge arrangements to meet any requirement. Wheel diameters from 16 in. to 66 in. Capacities from 450 cfm to 60,500 cfm. *Details and engineering data in Bulletin 482.*

General Purpose Fans



Portable, self-contained units for Class I industrial and ventilating applications. Recommended for ease of installation, low maintenance and space saving features. Made in three types and eight basic sizes. Capacities 400 cfm to 18,000 cfm. *Bulletin 493.*

PROPELLAIR Div.

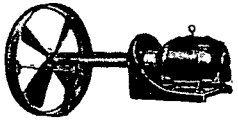
ROBBINS & MEYERS, INC.
1947 Clark Boulevard
SPRINGFIELD, OHIO

VENTILATING SPECIALISTS IN ALL PRINCIPAL CITIES



For Ducts, Walls, Windows, Hoods, Roof Ventilators

Certified Ratings — PTMB

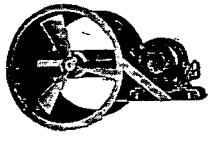


For Heat, Moisture, Fumes, Dust, and Gases

PROPELLAIR DIRECT-CONNECTED FANS

For use wherever motors may operate within the air stream, from free air to medium and relatively high resistance. A compact, durable design with fan having two to six blades. Sizes: 12 in. to 60 in. Capacities: 800–85,000 cfm. Type "CD."

For Heat, Acids, Alkalies—Fumes, Gases, Dust



BELT-DRIVEN PROPELLAIR TUBE-AXIAL TYPE

A complete fan unit in short duct section ready for installation in lines from 20 in. to 48 in. diameter. Type "CS" may be used for severe acid or alkaline conditions, explosive fumes and gases. Type "CSV," for excessive temperatures, circulates outside air through belt and fan shaft tubes to keep drive and bearings cool. Capacities: 4100 to 43,000 cfm.



For Roof Ventilation

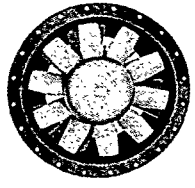
PROPELLAIR SKY BLAST

Dependable and economical power roof ventilators. Butterfly dampers open wide the instant fan is started, close automatically as fan coasts to a stop, offer virtually zero resistance as heat, fumes, moisture, dust shoot high into air. Rain is prevented from entering by fan when operating. Drainage gutter prevents leakage when dampers are closed. Sizes: 20 in. to 60 in. Capacities: 3700 to 77,000 cfm.

PROPELLAIR EXTENDED-SHAFT FANS

This design locates motor outside air stream when fan is installed in duct at right angle turn, elbow, "Y," or offset. Simple installation usually can be supported by duct without auxiliary bracing. Drive shaft is enclosed and sealed within steel tube. Sizes: 12 in. to 60 in. Capacities: 2000 to 68,000 cfm. Type "CE."

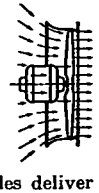
PROPELLAIR VANEAXIAL FANS



A compact, highly efficient pressure fan using standard steel drum sections incorporating standard *NEMA* frame motors in direct drive models. Also available in belt-driven ratings with motor outside the air stream. Cast aluminum airfoil propeller and guide vanes for maximum efficiency and durability. Available in 20 in., 24 in. and 30 in. diameters, ranging from 4,000 to 15,000 cfm.

AIRFOIL-SECTION Blades

Airfoil Principle Entrance Ring



Propellair fans have airfoil-section blades with variations of pitch, curvature, and thickness to compensate for different lineal speeds of points at various radii. Air movement is uniform over whole fan area. The Propellair curved entrance ring eliminates eddy currents; helps efficient Propellair blades deliver highest pressure and volume.