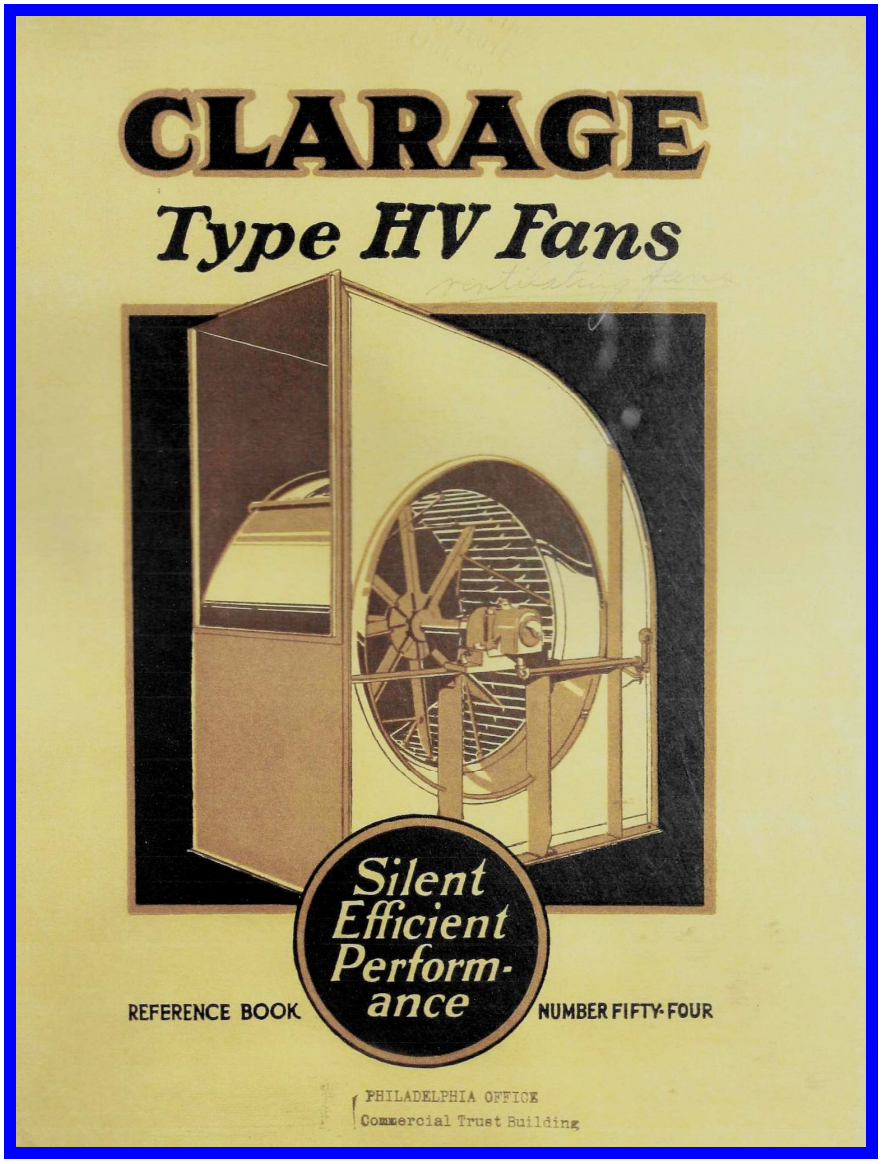
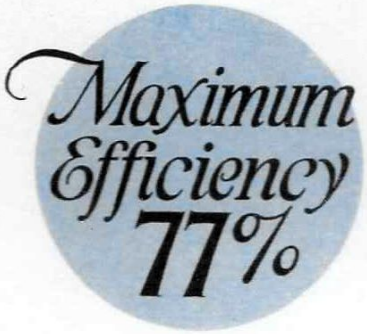
CLARAGE FAN COMPANY
Kalamazoo, Michigan
Catalogue of 1927

Centrifugal Fans



CLARAGE
TYPE HV FANS

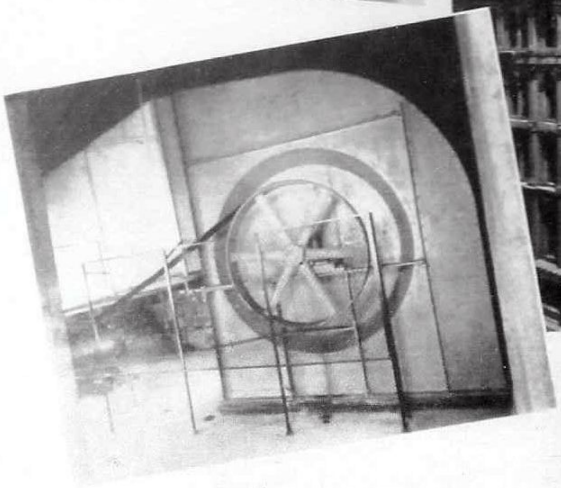


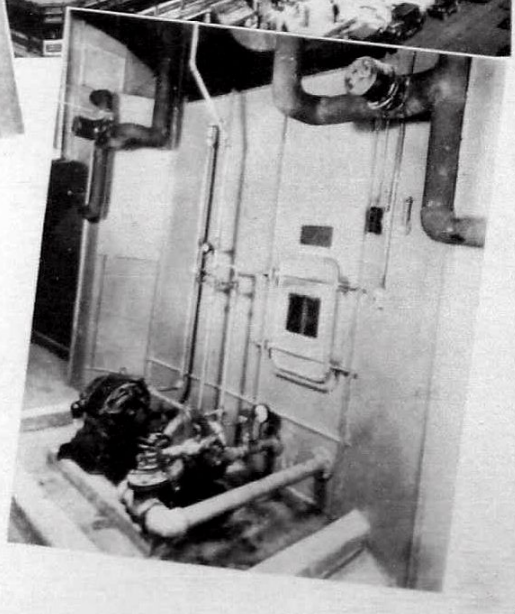
Safeguarding Economy Wherever Ventilation is Essential to Human Health and Comfort

ENGINEERING REFERENCE BOOK NO. 54

CLARAGE FAN COMPANY
Manufacturers of Fans, Air Washers, Unit Heaters, and Engines
KALAMAZOO, MICHIGAN SALES ENGINEERING OFFICES IN PRINCIPAL CITIES

CLARAGE





UNITED MASONIC TEMPLE,
CHICAGO, ILLINOIS

Showing one of the large size 7 HV Fans for fresh air supply, a smaller HV Fan for exhaust, and the detail of one of the Clarage Air Washers. In respect to ventilation and air conditioning, this building is fully Clarage equipped—twenty-one HV Fans and eight Type V Air Washers are in continuous operation.

Architects: *Rapp & Rapp, Chicago.*

Contractors: *Phillips, Getschow Co., Chicago.*

TYPE HV FANS
77% EFFICIENT

Service in the Field Confirms the Efficiency Claims Made for This Fan

IN the laboratory of actual service the Clarage Type HV Multiblade Fan stands thoroughly tested—*and approved.*

Hundreds of HV Fans have been in continuous operation over two years, yet not a single complaint has been registered against this equipment—not one motor has been overloaded—not one HV Fan has failed to perform as Clarage engineers specified that it would.

Service in the field fully confirms the statements made by this company for this fan when first announced, and consistently reiterated in Clarage advertising since that time. Service records of equipment installed prove beyond question of doubt, that the Type HV Fan develops the unparalleled high maximum efficiency of 77% not only when tested in accordance with the Standard Test Code—*but on the job as well.* Service records clearly demonstrate that Clarage engineering, as reflected in the fan's unmatched performance, is unmistakably sound.

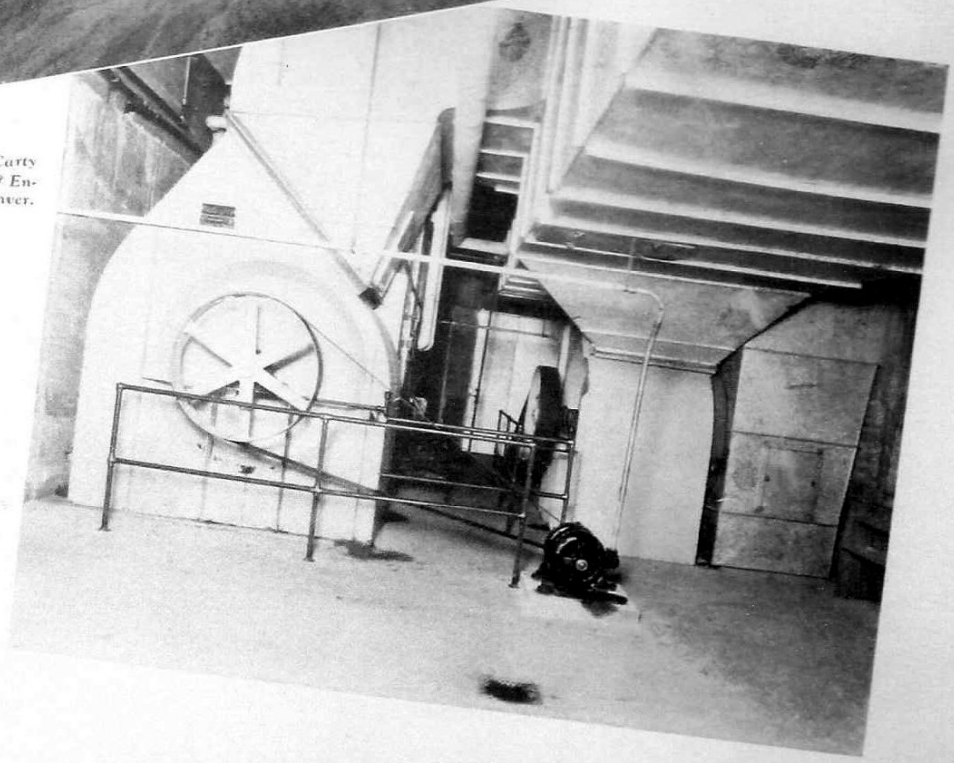
Today, the HV Fan's exclusive power saving feature, due to the high efficiency of 77%, is a recognized factor wherever fan equipment for ventilating and air conditioning is specified and used. This power saving feature saves as high as 15% to 20% in operating cost. It makes possible with safety the use of smaller, less expensive motors for drive. It often enables an HV Fan one size smaller to meet exacting specifications, and thereby promote another desirable economy in first cost.

Leading architects and engineers throughout the country consistently recommend and endorse the Clarage HV Fan. Leading contractors use this equipment. Highest efficiency plus sturdy, dependable construction and silence of performance all combine to make the HV Fan the best in its class—reasons sufficient why you are likely to prefer it for your own work.

CLARAGE

Architect: George H. Williamson, Denver.

Contractors: McCarty Johnson Heating & Engineering Co., Denver.



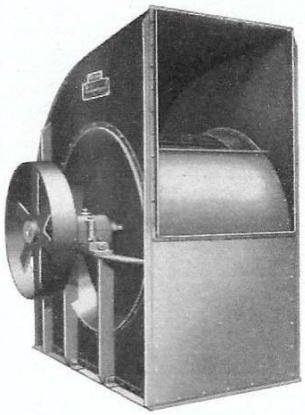
EAST HIGH SCHOOL, DENVER, COLORADO

This great school is one of the finest educational institutions in the country. Twenty-three HV Fans furnish the ventilation. The incoming air is washed and humidified by six Clarage Air Washers. Two of the complete systems are shown above.

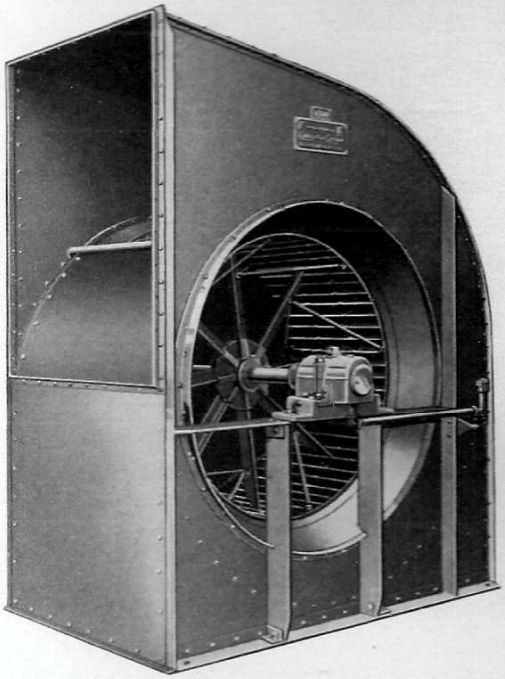
TYPE HV FANS
77% EFFICIENT

Note trim, sturdy appearance of this HV Fan, particularly the generous size of bearings and that the steel bearing supports run to the foundation line, a feature offered as standard equipment on Clarage Fans.

The Single Width Fan is built either Single or Double Inlet.



DRIVE SIDE, SINGLE INLET, ARRANGEMENT A



INLET VIEW, ARRANGEMENT A

Type HV Fan—Sizes 3½ to 9

THE Clarage HV Fan is manufactured in an ample range of sizes, covering every requirement as encountered in ventilation and air conditioning work. The architect, engineer or contractor need not go outside this efficient, well-built line of equipment to economically and satisfactorily meet any problem in the field. The following pages are devoted to the three general types of construction as used in building the equipment and to a discussion of constructional features with important notes on drive, Standard Arrangements, etc.

In the larger sizes, 3½ to 9, the HV Fan is furnished to meet the particular requirements of each individual installation. After assembly the unit is not adjustable for direction of discharge, although any direction of discharge may be specified at time of ordering and the fan will be built accordingly. The fan rotation may be changed after installation, if desired.

The housing is of heavy gauge sheet steel rigidly braced by angles and finished in workmanlike manner. Inlet and outlet connections permitting easy attachment of sheet metal ducts are provided as standard equipment with proper canvas connections furnished as an extra where specified. The wheel is thoroughly braced as illustrated on page 13, accurately balanced, and is supported by a shaft of ample size which eliminates vibration even though the operating speed is considerably higher than customary practice.

The Clarage Special Bearings, *self-aligning, dust-proof, and oil-tight* are mounted on structural steel supports *extending to the floor line*. Wear in the bearings may be taken up by a simple adjustment.

The HV Fan in these larger sizes is so constructed that it may be easily taken apart to

CLARAGE

Manufactures a Complete Line of Air Handling Equipment and Allied Apparatus

Acid Proof Fans
Air Conditioning System
Air Washers

Blast Grates
Blowers

Cast Iron Fans
Cooling Fans
Cotton Fans
Crown Ventilators
Cupola Blowers

Dehumidifying Systems
Drying Systems

Engines (Vertical Steam)
Exhausters

Fans
Forced Draft Blowers

Gas-Tight Fans (Exhausting and Pressure Boosting)

Heaters
Heating & Ventilating Systems
High Speed Forced Draft Blowers
Humidifying Systems

Induced Draft Fans
Inspection Doors

Mechanical Draft Equipment
Mine Fans
Multiblade Fans
Mushroom Ventilators

Planing Mill Exhausters
Powdered Coal Fans
Pressure Blowers

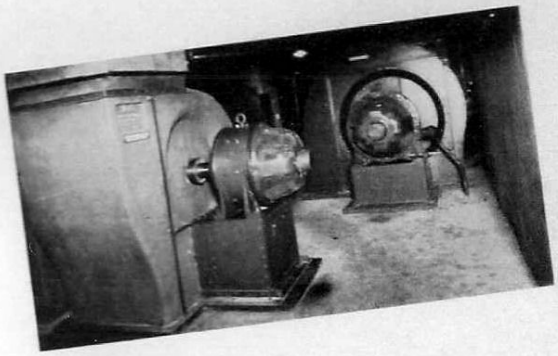
Reversible Fans and Blowers

Sheet Metal Doors
Slow Speed Planing Mill Exhausters
Steam Engines
Steel Plate Fans

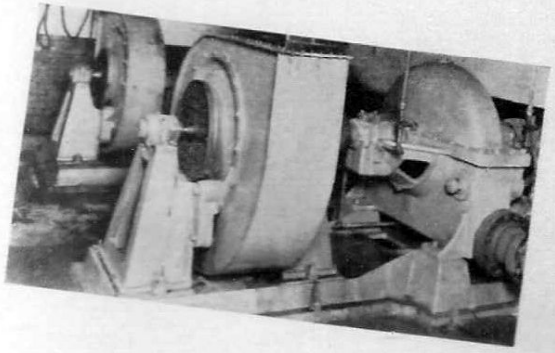
Unit Heaters

Ventilating Systems

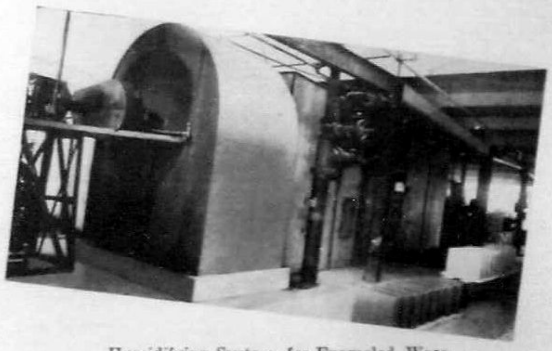
Waste Heat Fans
Water Gas Blowers



Clarage Ventilating Fans Operating in The Palmer House, Chicago, Ill.



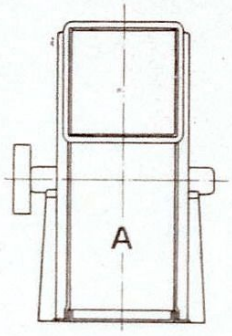
Type P Water Gas Blowers at Southern Indiana Gas & Electric Co., Evansville, Ind.



Humidifying System for Enameled Ware, Thomas Maddock's Sons' Co., Trenton, N. J.

Forced Draft Fan Servicing Boilers Maumee Finishing Co., Toledo O

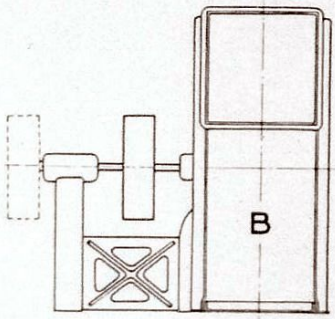
Showing Standard Arrangements for Type HV Fan— Sizes 1½ to 9



ARRANGEMENT A

Furnished with housing, wheel, shaft, two bearings and pulley.

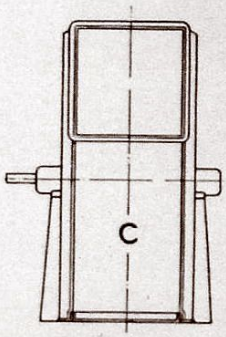
For Belt Drive.



ARRANGEMENT B

Furnished with housing, wheel, shaft, two bearings on cast iron support and pulley. (Built only up to and including size 3.)

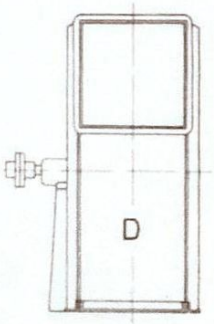
For Belt Drive.



ARRANGEMENT C

Furnished with housing, wheel, shaft and two bearings.

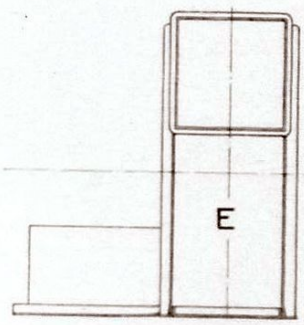
For Direct Connection, Texrope, Chain or other Approved Short Center Drive. Coupling, Special Pulley or Driven Pinion Extra.



ARRANGEMENT D

Furnished with housing, wheel, shaft, one bearing and solid coupling.

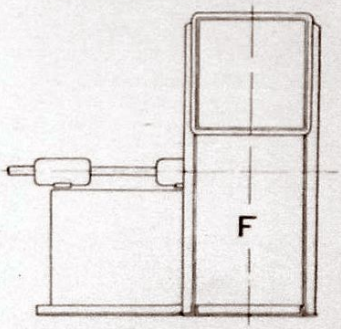
For Direct Drive.



ARRANGEMENT E

Furnished with housing, wheel, and structural steel pedestal for motor. (Built only up to and including size 2½.)

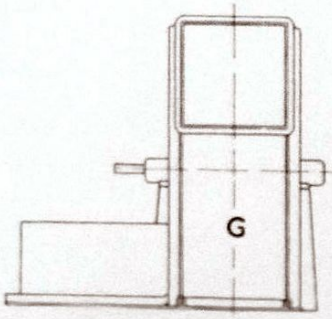
For Direct Drive with fan wheel mounted on extended motor shaft.



ARRANGEMENT F

Furnished with housing, wheel, shaft, and two bearings mounted on structural steel pedestal. (Built size 3½ and larger.)

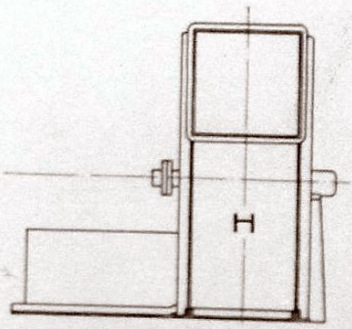
For Belt or Approved Short Center Drive, and Direct Connection. Pulley, Driven Pinion or Coupling extra.



ARRANGEMENT G

Furnished with housing, wheel, shaft, two bearings and structural steel pedestal for driver.

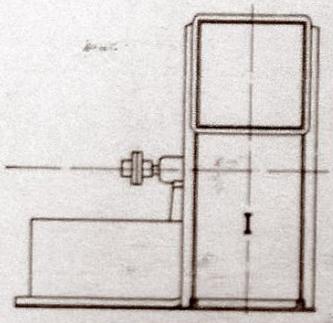
For Direct Drive. Coupling extra.



ARRANGEMENT H

Furnished with housing, wheel, shaft, one bearing, solid coupling and structural steel pedestal for driver.

For Direct Drive.



ARRANGEMENT I

Furnished with housing, wheel, shaft, one bearing, solid coupling and structural steel pedestal for driver.

For Direct Drive.