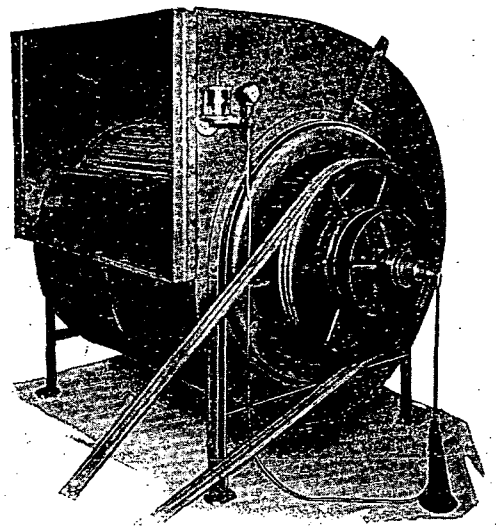
Horton Manufacturing Company

3016 University Avenue, Southeast

Minneapolis, Minn.

VARIABLE AND CONSTANT SPEED DRIVES FRACTIONAL HORSE POWER AND UP



Can't Leak Hydraulic or mechanically controlled variable speed fan drives. Widely used in public buildings and sound equipped theatres where fan speed change and quiet operation is demanded. Will not overheat when operated constantly at intermediate sets. Speed changes anything between a crawl and belted speed.

Reduction in monthly power bills quickly liquidates cost of equipment—no delicate parts to wear or give trouble—extreme long life—will install on four inch shaft projection. Hydraulic and mechanical control are interchangeable.

We agree to replace no charge F. O. B. factory any part which in normal use fails to function during the first year in service.

Information Required with Orders

1. Fan name and speed.
2. Fan shaft diameter.
3. Horse Power and speed of driving motor.
4. When possible, specify Brake Horse Power.
5. Diameter of motor shaft and dimensions of keyway.

AEROFIN CORPORATION

850 Frelinghuysen Avenue
Newark, N.J.

Manufacturers of AEROFIN

THE STANDARDIZED LIGHT-WEIGHT FAN SYSTEM HEAT-SURFACE

11 West 42nd Street, NEW YORK

Land Title Building	United Artists Building	Burnham Building
PHILADELPHIA	DETROIT	CHICAGO

AEROFIN is the modern Standardized Light-Weight Fan System Heat-Surface originated by *Fan Engineers* to meet the present-day requirements of this highly specialized field, and to afford an adaptability which permits and fosters the new and advanced applications of tomorrow.

A new, improved AEROFIN available February 1st, 1932

The AEROFIN Corporation announces a new, improved, advanced AEROFIN, available after February 1, 1932. This new Surface is called Flexitube AEROFIN (Fig. 1) and is designed for steam pressures from 1 to 200 lbs., temperatures to 388° F, one- and 2-row Units (some 2-row Units equivalent to 3-row Units of former Low Pressure AEROFIN) and for both Tempering and Re-Heater service.

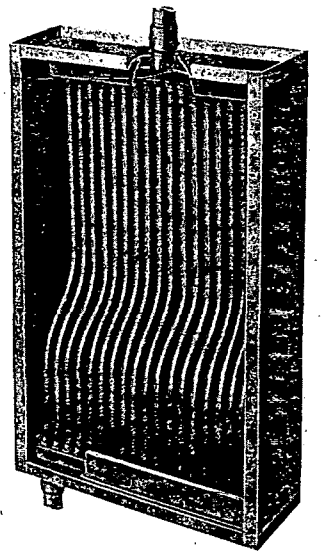


Fig. 1

Flexitube AEROFIN thus supplants the former Low Pressure AEROFIN (the original light-weight, non-corrodible, encased Heat-Surface) and will, we believe, eventually supplant Universal AEROFIN, as Architects and Engineers become familiar with its unusually adaptable characteristics.

Flexitube AEROFIN is distinguished from all other developments by its off-set tubes, as shown. This ingenious idea imparts to the tube a flexibility which enables it to expand or contract, under temperature changes, without strain upon itself, the header joints, the header or the casing. Hence the name Flexitube AEROFIN.

The flexibility of the off-set tube permits a single-pass, header-to-header design which allows the use of rigid headers and so perfectly relieves or absorbs expansion and contraction strains that header and header-joint construction adequate for high pressure service may be employed, and the permanency of the construction assured thruout the practically unlimited life of the surface.

Single-pass tube construction is essential for low pressure service and is desirable for intermediate pressure service (up to 200 lbs.) since it insures uniform steam or cold water distribution and proper, quiet drainage of condensate, while permitting installation of the Unit *in any position*. The off-set tube of Flexitube AEROFIN is the first definite achievement of the ideal single-pass, header-to-header design. Tests equivalent to a life-time of service show that Flexitube AEROFIN will stand up indefinitely against the strains of expansion and contraction because the Unit, due to its design, does not *resist* these strains, but absorbs them in its flexible tubes without rack or injury.

The headers are one-piece brass castings, machined for tube joints and pipe tappings.