

Knowles Mushroom Ventilator Co.

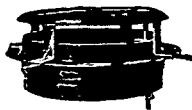
41 North Moore Street, New York

Knowles Air Diffusers for Auditoriums of Theatres, Churches, Schools

ORIGINAL—RELIABLE—STANDARD

Giving Satisfactory Service in Over 4,000 Installations

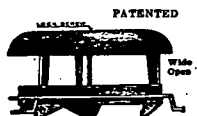
PRODUCTS:—Cast-Iron and All-Steel Adjustable Mushroom Ventilators; Aisle Hood, Tu-Way and Camelback Air Deflectors; Round and Oblong Gallery Riser. Vents and Steel Grilles with adjustable volume damper attached



Aero Valve—The Improved Mushroom Air Diffuser

The newest Knowles product. An up-to-date mechanically correct air unit of fixed height made of HEAVY steel, with strong supports bearing across 1-in. flange. Also furnished with CAST-IRON Dome Cap. Easy to regulate and install and low in price. Combines high efficiency with convenient adjustment affording finest control of air by simply turning screw on TOP of CAP. Can be positively locked at desired adjustment—is noiseless and made so that it cannot be taken apart before or after installation—an exclusive feature. Quick Anchorage to Wood or Concrete floors in one piece—Made in 6-in. and 8-in. diam. sizes—Same capacities as Nu-Notch type (see table below).

Knowles Nu-Notch Mushroom Ventilator or Air Diffuser



The ideal cast-iron mushroom. Head has three outer bearings and is absolutely rigid. Ten recessed notches give close regulation of air. Locked into positive adjustment by tightening head screw. Supplied with dome or flat tops. Three



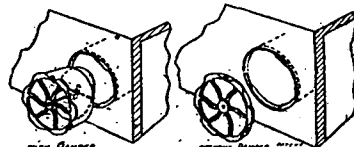
screw holes in floor flange for fastening to wood, or three angle L lugs for setting in concrete, or three tapped holes in floor collar for fastening with set-screws to sleeve.

Size	Cu. Ft. per Min. at 300 ft. Vel.	Area, Sq. Ft.	Weight Lbs.
5" diam.	42	0.1364	3.50
6" "	60	0.1964	4.25
7" "	81	0.2673	5.75
8" "	105	0.3491	8.00
10" "	165	0.5454	11.75

Specifications:—Furnish and install where indicated on drawings or as hereinafter specified (5-in.), (6-in.), (7-in.), (8-in.), (10-in.). (Dome Top). (Flat Top). Nu-Notch Cast-Iron Mushroom Air Diffusers with recessed notches for the permanent adjustment of mushroom caps at any desired opening together with center locking screw feature as manufactured by Knowles Mushroom Ventilator Co., New York, N. Y.

Knowles Disc-Loc Gallery Riser

Ventilators are designed to insure better control of air. Round holes in the gallery risers do not weaken the construction but, on the contrary, with the cast-iron rings it is actually strengthened. The cast-iron grille is quickly inserted and locked by a simple twist motion—no bolts, screws or springs. Furnished with or without damper to fit same rings. MADE IN FOUR SIZES (See Booklet).



Dampagrille—A Steel Grille, with adjustable volume damper attached. Ideal for many purposes—(made in various sizes.)



Tu-Way Air Deflectors are designed to deliver maximum area with minimum fixed height. The air is discharged at both sides along the row of seats. Heavy Cast-Iron—Ornamental design—Adjustable doubling curved damper deflects air downward. Fine, positive adjustment—Rattleproof, noiseless. A DEVICE THAT DELIVERS THE FULL AREA OF FLOOR

OPENING. Floor opening $6\frac{1}{2}$ by $8\frac{1}{2}$ inches—Area $\frac{1}{2}$ Sq. Ft.—100 CFM at 300 Vel.

Standard Aisle Hood Air Deflectors are used to throw the fresh air out into the aisles in one direction. A curved damper reduces friction loss.

Large size: 8 in. long, 6 in. wide, 6 in. high; Small size: 8 in. long, $4\frac{1}{2}$ in. wide, $4\frac{1}{2}$ in. high.

Send for New Booklet of Complete Engineering Data or Samples

Burt Air Filter Corporation

45 E. South Street, Akron, Ohio

Representatives in Principal Cities

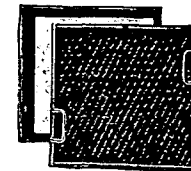
AUTOMATIC AIR FILTERS

Polystage Viscous Type
—Constructed to give six stages of air filtration through a media of viscous coated screens which remove the dirt from the air and precipitate it in a tank of Ozonol at the base of the filter.

Dirt is automatically separated from the Ozonol by a special filter cup. The cleaned Ozonol is then automatically pumped back into the charging chamber of the filter just before the next cleaning operation. It is unnecessary to rotate the filter screens, except when the filter is being cleaned.

Absolutely the only attention necessary is an occasional cleaning of filter cup and removal of sediment. A drain is provided at filter cup for attaching directly to sewer or, if desired, sediment can be drained into a sludge pan. Burt Automatic Viscous Type Air Filters are made in capacities from 2,500 c.f.m. upward.

Dry Fibre Automatic—The filter media employed in this filter is made from layers of specially-developed, wire-woven jute fibre and selected cheese cloth which are built into an endless chain. The media is especially durable and is automatically cleaned by rotating filter pads over a series of vacuum nozzles which withdraw dirt and other particles which have been embedded in the filter media during the air cleaning operation. Velocity of air through filter media on the standard type is 286 f.p.m. at a resistance of .25 in. w.g. Can be furnished in sizes from 5,000 c.f.m. upward.



Metallic Type Cell with Frame

UNIT AIR FILTERS

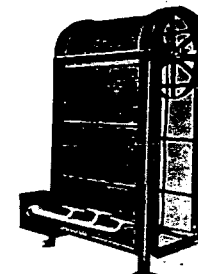
Metallic Type—An all-metal filter which uses Ozonol, a specially treated oil, as its adhesive agent. Cleaning of air is accomplished by impingement of dust on the viscous coated surfaces of a series of screens having graduated openings. Cells are standard size and are interchangeable, each having a capacity of 1,000 c.f.m. at a resistance of .2 in. w.g. Many new features, such as improved handle design, specially constructed crimped wire filter pads, etc., are described in the bulletin on this filter.

Dry Fibre Type—The media employed in this filter is practically the same as that in the Dry Fibre Automatic. The cells are 20" square and are built for unit installations. They are cleaned manually by use of a small industrial vacuum cleaner. Large perforations permit close contact between nozzle and filter pad and assure positive cleaning without need of removing pad from the frame.

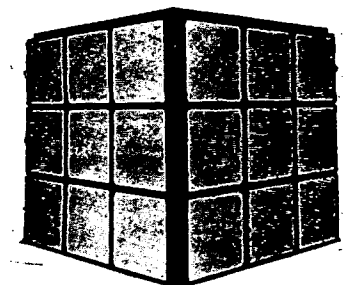
Other Burt Filters—Burt also manufactures a complete line of Metallic Compressor Filters, Metallic and Dry Unit Heater Filters, Furnace Filters and Special Filters designed to meet specific conditions.



Automatic Viscous Type Air Filter



Automatic Fibre Type Air Filter



Right Angle Installation of Fibre Type Units