

Knowles Mushroom Ventilator Co.

41 North Moore Street, New York

Knowles Air Diffusers for Auditoriums of Theatres, Churches, Schools

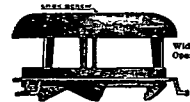
PRODUCTS:—Cast Iron and All-Steel Adjustable Mushroom Ventilators; Aisle Hood, Tu-Way and Camelback Air Deflectors; Round and Oblong Gallery Riser Vents.



Knowles *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 rolled steel. Also furnished with Cast Iron Dome Cap and Strong Cast Iron Supports bearing on floor flange. 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 and the only mushroom made which can not be taken apart before or after installation.

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



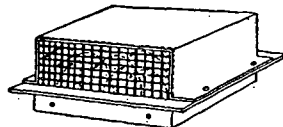
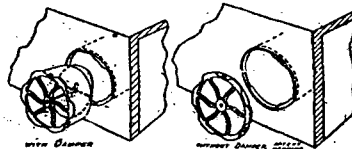
screwholes in floor flange for fastening to wood, or three angle L lugs for setting in concrete, or three set-screws in floor collar for fastening to sleeve.

Size	Cu. Ft. per Min. at 300 ft. Vel.	Area, Sq. Ft.	Weight Lbs.
5" diam.	42	0.1364	4
6" "	60	0.1964	4 3/4
7" "	81	0.2673	6 1/2
8" "	105	0.3491	9
10" "	165	0.5454	14 1/2

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 sleeve is a plain galvanized iron cylinder, with a 1/2 in. turnover flange, and with a special cast iron ring, riveted flush to the inside front end. Sleeves are grouted in when concrete is poured. The cast iron grill 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).**



Tu-Way Air Deflectors are designed to give maximum area of discharge of air with minimum fixed height. The air is discharged at both ends along the row of seats. Do not interfere with the back of chair seats when they are raised. Made of Heavy Cast Iron with heavy wire screens locked into grooves at each end.

Damper easily adjusted with screwdriver from top of cap. **MADE IN FIVE SIZES (See Booklet for detail).**

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.

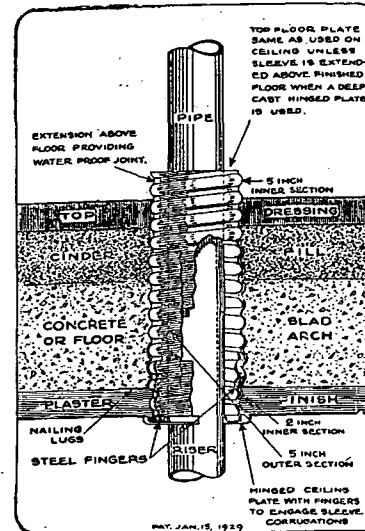
Small size.....8 in. long 4 1/2 in. wide 4 1/2 in. high
Large size.....8 in. long 6 in. wide 6 in. high

Send for New Booklet of Complete Engineering Data

Knowles Pipe Sleeve Co.

41 North Moore Street, New York, N. Y.

A Standard Extensible Sleeve for all Kinds of Buildings and all Sizes of Pipe



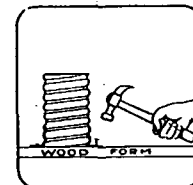
SUPER SLEEVE

PAT. JAN. 15, 1929

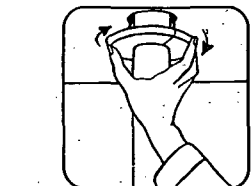
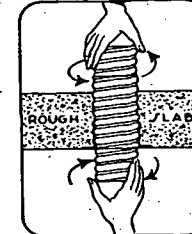
Provides the original form for hole through concrete, fill and cement dressing and is adjustable for each stage of construction as it progresses. Provided with lugs for nailing to form before concrete is poured. Provides form for plaster finish around pipe on ceilings. Provides Hinged Plates which may be fitted around pipes after all construction work is completed. Plates will remain permanently in position, becoming an integral part of the sleeve. Protects piping from external erosion from contact with concrete, cinder fill and cement. Eliminates expensive "after-patching." Is strong enough to withstand construction abuse, yet light and easy to handle. Saves Time—Labor—Expense in providing and setting special sizes to order. Eliminates clipping sleeves to length on job.

Sizes to Use and Specify

FOR SIZE PIPE.....	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	3 1/2"	4"	5"
Use Diameter Outer Section.....	2"	2"	2"	3"	3"	4 1/2"	4 1/2"	4 1/2"	6"	6"
Use Diameter Outer Inner Section.....	2"	2"	2"	3"	3"	4 1/2"	4 1/2"	4 1/2"	6"	6"
Use Diameter Short Inner Section.....	2"	2"	2"	3"	3"	4 1/2"	4 1/2"	4 1/2"	6"	6"
Use Hinged Plate with Steel Fingers.....	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	3 1/2"	4"	5"



Outer section nailed to form holds SUPERSLEEVE firmly in place until concrete slab is poured and set.



After all construction is completed snap our patented plate around pipe and twist up flush against finished ceiling, floor or wall surfaces, thus locking plate permanently into place.

When Ready to Lay

fill and top cement dressing extend top inner section to desired height by a simple twist of the hand. Will remain extended as set and can be quickly altered if necessary before cement hardens. When ready to plaster ceiling extend the short inner section below slab **Flush to Level of Finished Ceiling.**

Send for New Booklet for Complete Data