Jenn-Air Products Company, Inc.

1102 Stadium Drive, Indianapolis 7, Indiana

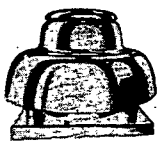
Warehouse stocks in all major cities

Roof Exhauster Equipment for Public, Commercial and Industrial Buildings

QUIET-TESTED! Jenn-Air Quiet-Tested Roof Exhausters are pre-proved under simulated field conditions. Each unit must pass rigid inspection by the critical *Vibronic Eye* . . . is "screened" in Jenn-Air's Sound-Elec Test Chamber to detect noise, vibration.

Direct Drive Power Roof Exhauster

Dependable U-Spring Suspension of Jenn-Air's Direct Drive Roof Exhauster virtually eliminates noise caused by vibration. U-Springs suspend the power assembly, isolate it from the base. Motor and blade are balanced together, eliminating vibration and noise. Heavy Gage All Aluminum Housing . . . Non-Overloading All Aluminum Wheel . . . assure trouble free performance. Low Contour Streamlining meets requirements of modern building design. Jenn-Air's Ball Bearing Motor is lubricated for 10 years of continuous service.



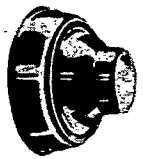
Belt Drive Power Roof Exhauster

In this Quiet-Tested Belt Drive Power Roof Exhauster, Positive Weather-Proof Engineering is combined with trim Low Contour Design. Full Ball Bearing Drive and Motor are mounted out of the air stream. Heavy Gage All Aluminum Construction gives strength without weight. Exhauster can be quickly, easily, disassembled for re-assembly on the roof. All models come with a disconnect switch as integral part of the unit. Non-Overloading Blade, dynamically and statically balanced, also assures long life, smooth, quiet operation.

Jenn-Air's Sound-Elec Test Chamber, where every Quiet-Tested Jenn-Air exhauster is individually checked by the Vibronic Eye in a sound-control room . . . line-lab tested for vibration, sound, motor load and insulation breakdown. Tests take the guess work out of noise control—only units which pass this rigid inspection are accepted for shipment.

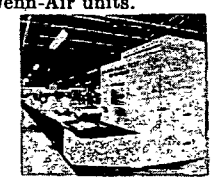
Axial Roof Exhauster

The Axial type Jenn-Air Roof Exhauster is recommended for general ventilation work and for duct-type applications where static pressures do not exceed one-half inch. Special Non-Overloading Design protects against motor failures. Quiet-running pressure-type aluminum blades make this a high cfm-per-dollar value. Same high quality aluminum construction featured in the Centrifugal type available throughout the Axial series.



Centrifugal Wall Exhauster

Jenn-Air Centrifugal Wall Exhausters eliminate most duct work . . . provide a means of ventilation through the wall when roof exhausters would prove unsuitable or more costly, as in multi-story construction. One single opening through the outer wall permits Wall Exhauster to be connected directly to the area of ventilation . . . saves valuable interior space, lowers installation costs . . . reduces fire, explosion hazards. Constructed of heavy gage aluminum, exhausters are completely weather-proof, unusually quiet. Motor is mounted outside the airstream. Has the same Non-Overloading characteristics as all other Jenn-Air units.



Sound-Elec Test Chamber

Jenn-Air Exhausters are rated in accordance with the Standard Test Code by the Texas Engineering Experiment Station.

Knowles Mushroom Ventilator Co.

Established 1906 All Patents Protected

Main Office and Factory

Upper Montclair, New Jersey

Nu-Notch

NU-NOTCH 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.

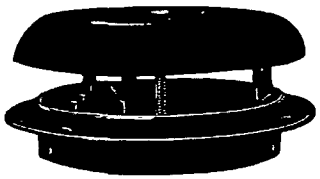
Cast iron mushroom, successfully serving in over 5,000 buildings in U. S. and abroad. Provides correct draft-free distribution of air to each individual in any size auditorium, orchestra or balcony. Close regulation of air—10 different adjustments for all possible conditions. Easily regulated by part turn of cap, and locked in position by tightening head screw with special key—new feature to prevent tampering. Supplied with dome or flat tops, 5 diameter sizes. Easy, permanent anchorage to wood, concrete or monolithic floors.

PROPER auditorium ventilation is now recognized to be a combination of temperature, air motion and distribution, humidity, dust, bacteria, odors, and carbon dioxide. Air motion and distribution is second only to temperature in importance. The Synthetic Air Chart adopted by the ASHAE takes into account all of these factors and makes it possible to arrive at an average which will show the percentage of ventilation obtained in any given installation.

For nearly a half century KNOWLES has devoted itself to one specialized field —the manufacture of air diffusers for auditoriums.

Write for free Guide to Distribution of Air in Auditoriums.

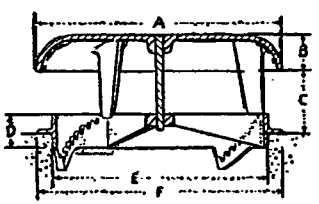
KNOWLES NU-NOTCH MUSHROOM AIR DIFFUSER



For Auditoriums

MODERN practice shows that 8 cu ft of fresh air per minute per person is ample to keep the air in an auditorium free of odors; and to maintain body heat and to balance the outdoor heat of a warm summer's day, about 20 cu ft per minute per person must be introduced. The accurate amount becomes an engineering problem too extended for this outline.

Of the 20 cu ft per minute per person introduced, 12 cu ft may be recirculated, economizing heat in winter and cooling in summer. If too much air is recirculated, odors will result; and when smoking is to be allowed, much more new air must be introduced.



Adaptability of the KNOWLES Mushroom Air Diffuser. In an auditorium seating 2000, requiring 40,000 cfm, it is desired to use 6 in. diam NU-NOTCH Mushrooms with air velocity of 600 fpm. By referring to the table below, it will be seen that a 6 in. mushroom will exhaust 120 cfm. Dividing 40,000 cfm by 120 indicates 333 units are required.

Size	Dimensions in Inches						Net Wgt. Lbs.	Area Sq Ft	Cfm at Velocity of								
	A	B	C	D	E	F			200	250	300	350	400	450	500	550	600
5	6	7/8	1 3/4	1 5/8	5	6	4	.1364	27.3	34.2	41.0	47.7	54.6	61.2	68.0	74.8	81.6
6	7 1/8	1 1/8	1 1/2	1 1/2	6	7 1/8	4 3/4	.1964	39.3	49.1	59.0	68.7	78.6	88.2	98.0	107.8	117.6
7	8 1/4	1 1/4	2 1/8	1 1/4	7	8 1/4	6 1/2	.2673	53.5	66.8	80.2	93.5	107.0	120.6	134.0	147.4	160.8
8	9 3/8	1 1/2	2	2	8	10 1/8	9	.3491	69.8	87.3	105.0	122.0	140.0	157.0	174.5	192.5	209.4
*10	11 1/2	1 3/4	3	2 1/2	10	11 7/8	14 1/2	.5454	109.0	136.3	163.6	191.0	218.0	245.2	272.5	300.0	327.0

* The 10" diam. Nu-Notch is the most economically *priced* Mushroom to use also affording the greatest exhaust area and least duct connections.