W. B. CONNOR ENGINEERING CORP.

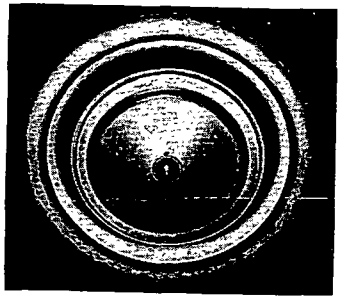
114 East 32nd Street,
New York 16, N. Y.

Representatives in
All Principal Cities

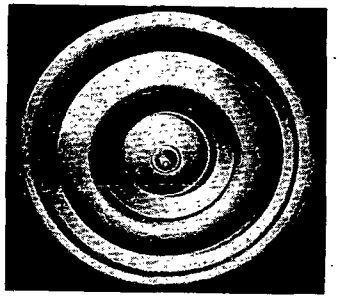
In Canada: Douglas Engineering Co., Ltd., Montreal, P. Q.

KNO-DRAFT *Adjustable* AIR DIFFUSERS

KNO-DRAFT Adjustable Air Diffusers insure efficient air distribution, maximum secondary air induction, noiseless and draftless diffusion, and uniform temperature throughout the occupied zone, *regardless* of season or ventilation requirements. Every KNO-DRAFT unit is easily and quickly adjustable for individual or seasonal requirements. The same KNO-DRAFT Diffuser is equally effective to expel chilled air parallel to the ceiling or eject heated air downward to prevent stratification.



TYPE KDA FOR SUPPLY AIR—Attractive—light, yet sturdy—for high or low ceilings or attachment to exposed ducts. Anti-smudge rim prevents streaked ceilings. Sizes 4 in. to 36 in. neck diameter for capacities from 50 to 15,000 cfm per unit.



TYPE SRD FOR SUPPLY AND RETURN AIR—To simplify duct work. Sizes 6 in. to 24 in. supply-air neck diameter for supply capacities from 50 to 2,500 cfm per unit, with central, return neck area 75 per cent of supply neck area.

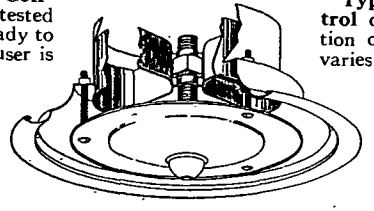
The KNO-DRAFT Diffuser will effectively distribute large volumes of air—premixing room and supply air. It permits the use of higher duct velocities—resulting in smaller ducts and lower costs. Duct designs are simplified and fewer outlets are required. KNO-DRAFT Diffusers are simple in construction, light in weight, and easily installed.

KNO-DRAFT Diffusers are geometrically proportional, size for size, insuring like resistance at like neck velocity for any size—and balanced static pressure throughout the system.

THE TYPE D AIR VOLUME CONTROL is designed for application exclusively to KNO-DRAFT ADJUSTABLE CEILING AIR DIFFUSERS. It is furnished already assembled within the diffuser and requires neither field assembly nor attachment to ducts, angle rings or other external appurtenances.

Type D Air Volume Control is adjusted and tested before shipment and ready to function when the diffuser is installed.

Its operation is entirely independent of the air direction adjustment which is part of all standard KNO-DRAFT Air Diffusers.



Type D Air Volume Control complements the function of the air diffuser. It varies only the *quantity*, not the *characteristic* of the air distribution. With it, a series of diffusers may be balanced without affecting the air diffusion efficiency.

With KNO-DRAFT TYPE KD ADJUSTABLE CEILING AIR DIFFUSERS the desired air pattern for any room or zone is AT YOUR FINGER TIPS

Kno-Draft Diffusers are covered by U. S. Patents Nos. 2,365,867; 2,369,119; 2,432,289 and others pending; Canadian Patents Nos. 429,206; 443,235.

APPEARANCE

The **KNO-DRAFT** Adjustable Air Diffuser lends itself well to any architectural or industrial requirement. Its simple, unobtrusive appearance and functional design make it an attractive air conditioning accessory in any commercial or manufacturing area.

UTILITY

An air diffuser is the sole "point of contact" between the conditioning system and the people it serves. If the diffuser is not adjustable *after installation* everything about that "point of contact" must be decided in advance. This can impose an often difficult, and always unfair, limitation on the designer. Air diffusion, especially in a room not yet built, can be a hazardous element to predict with complete accuracy. Air movement requirements, in a structure already built, may sometimes change with relocation of heat-producing equipment, people, or partitions. The advantage of adjustment *after installation* offers a new approach to this phase of the system design problem. With KNO-DRAFT Adjustable Air Diffusers, the behavior pattern of an air distribution system can, within fairly wide limits, be controlled, hence altered, after installation.

ECONOMY

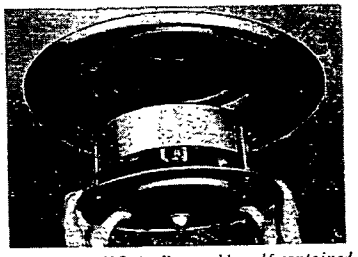
The economy of the KNO-DRAFT Adjustable Air Diffuser is a combination of three distinct economies, each contributing an added control over costs.

INSTALLATION—The self-contained removable inner assembly can reduce installation time by as much as 50 per cent. Where ceilings already exist the outer cone is attached to duct or collar quickly and easily.

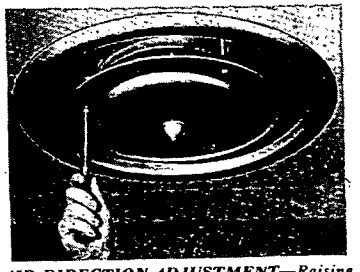
BALANCING—A minimum of time and effort is required to balance a KNO-DRAFT air distribution system. The single annular air stream permits immediate and accurate velometer reading. Desired air supply ratios may be rapidly obtained by adjusting the volume control dampers.

ADJUSTMENT — By simply raising or lowering the inner cone the diffuser is adjusted for any direction of air discharge from vertical to horizontal. By adjusting the volume control damper the air supply may be increased or decreased at will at individual points or zones.

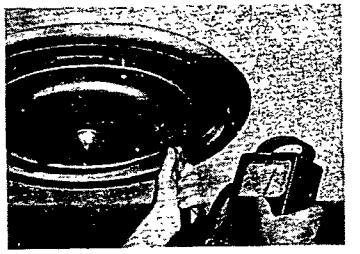
NEW CATALOG AND HANDBOOK — This new catalog contains in one complete and concise manual all the data necessary for the proper selection of air diffusers. Much information on air diffusion in general is included. *Write for Bulletin K-20.*



***INSTALLATION**—Removable self-contained inner assembly cuts installation time and costs.*



***AIR DIRECTION ADJUSTMENT**—Raising or lowering inner assembly provides any air direction angle—after installation.*



***BALANCING**—Single air stream allows direct velometer reading of volume immediately.*

***AIR VOLUME ADJUSTMENT**—Twist of wrist regulates air volume instantly after installation.*

(See pages 1020 and 1021 for data on DOREX *Air Recovery Equipment)*