CONNOR ENGINEERING CORPORATION

Danbury, Connecticut

Connor Engineering Corporation, with more than 40 years of experience in the design and development of significantly advanced air distribution equipment, offers a complete line of adjustable and fixed pattern air diffusers for all industrial, commercial and residential requirements. Products of painstaking research and development, Connor Kno-Draft diffusers discharge air in an effective single, circumferential pattern that eliminates draft and equalizes room temperature by achieving maximum induction. All Kno-Draft models feature the patented calibrated sleeve damper that permits precise regulation of air volume. The Kno-Draft diffuser's smart, simple styling blends perfectly with any interior, whether the application is industrial, commercial, or residential. Standard finish for all models is baked enamel. Colored units to match any ceiling finish are also available on special order. For more information on the Connor line, write for literature or contact the Connor representative near you.

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kno·draft® air diffusers

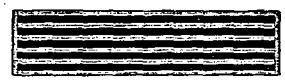


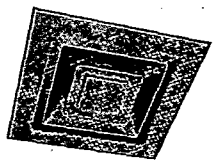
TYPE KDA

The Kno-Draft KDA is an adjustable, circular, flush-mounted unit. The design combination of calibrated sleeve damper and adjustable lower cone permits independent air volume and post-installation adjustment of air direction. The KDA is also available without appearance cone. Sizes range from 5 in. to 36 in. neck diameter. *Bulletin K-20-A.*

TYPE KLS and KFLS

The Kno-Draft KLS is an adjustable slotted air diffuser. The KFLS is a fixed vane model. These graceful, all-aluminum units are especially suited to board rooms, foyers, lounges, and similar spaces. Their harmonious, unobtrusive lines complement any interior. Installation can be made singly, or in multiple series to form a continuous slot for heating or cooling. KLS and KFLS diffusers can be equipped with built-in air volume and directional control. Unit lengths range from 2 to 6 ft, with widths of 3 in. and 6 in. for one way blow and 12 in. for two way blow. *Bulletin K-27-A.*



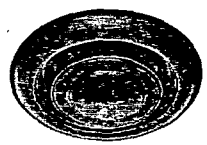


TYPE KP

Designed for quick, easy installation, the attractive Kno-Draft Type KP square air diffuser is available in two models—Type KP (overlap) for flush mounting on plaster or certain acoustical ceilings—Type KPT for T-Bar ceilings, where the diffuser snaps into the ceiling construction. Both models have identical air performance characteristics. Despite square design, air is distributed in a true circumferential pattern which achieves maximum effectiveness. Fabricated of aluminum-killed steel, available in sizes 5 in. to 14 in. neck diameter. *Bulletin K-27-A.*

TYPE KDASM

The Kno-Draft KDASM circular, surface mounted diffuser is a great space saver. By shifting the diffuser body downward, its deep, streamlined outer cone saves valuable inches in the ever-diminishing above-ceiling area. KDASM performance characteristics are exactly the same as those of the flush mounted KDA; but the KDASM's deep outer cone offers the additional advantage of preventing smudging of ceiling. Sizes range from 5 in. to 18 in. neck diameter. *Bulletin K-38.*





TYPE KF

Latest in the Connor line, the *fixed pattern* KF is especially suitable where no adjustment of air discharge is necessary. Its combination of detachable snap-in center element and mounting holes in the outer cone shoulder facilitates installation and offers the alternatives of connecting the unit to the duct collar or to structural support. A foam plastic urethane rim gasket forms a positive seal between the ceiling and the diffuser. Available also with air-equalizing grids and anti-smudge cones. Sizes range from 6 in. to 14 in. neck diameter. *Bulletin K-44.*

TYPE SRD

The Kno-Draft SRD Circular Supply-Return diffuser is applicable where air is both supplied and returned through the ceiling diffuser. The SRD's design ejects supply air radially away from the center return opening, preventing short-circuiting of supply air. Sizes range from 6 in. to 24 in. neck diameter. *Bulletin K-20-A.*



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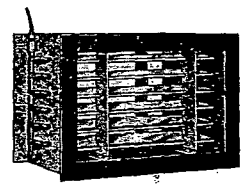
Connor's Pneumavalve is one of the most beneficial advances in the industry because it requires no motors or linkage mechanism of any kind for its operation. The new Series 45P is a twin-model variation of Pneumavalve which greatly increases that unit's range of applicability. Connor Kno-Draft high velocity valve attenuators are the result of more than a dozen years of experience in the design and application of such units. The Series 45 valve attenuators are equipped with patented helical, neoprene-coated spring dampers, a feature available only from Connor. This damper ensures quiet operation and complete close-off. All Series 45 models are adaptable to both dual and single duct systems.

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kno·draft®

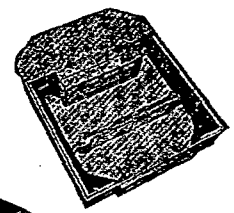
High Velocity

SERIES 45 VALVE ATTENUATORS



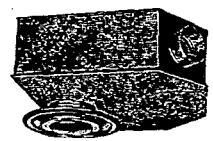
Pneumavalve

Unique Pneumavalve requires neither air motors nor mechanical linkage of any kind. Operation is by the pneumatic action of a horizontally arranged series of air foil type vanes which enclose sealed neoprene actuators. Air pressure from a standard 15 psi control system expands the vanes, thereby constricting the valve openings and throttling the air flow. Complete shutoff with minimal leakage is achieved. 16 sizes, 1500-9600 cfm air delivery. Pneumavalve offers important installation, application, and operational advantages over large motorized valves. *Bulletin K-42.*



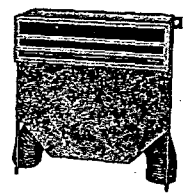
Series 45P

This unit is a twin-model variation of Pneumavalve. Operation is also by a standard 15 psi pneumatic control system. Connection of standard 15 psi thermostat to hot valve and of standard flow regulator to cold valve results in constant volume operation. Each of the twin valves consists of multiple air foil type vanes which pneumatically expand to achieve straight line progressive close-off. Hysteresis is positively eliminated. Universal arrangement of mixing box permits connection of supply ducts to 45 degree inlets, and also enables easy switch of hot and cold inlet by reversing pneumatic tubing connection. Capacities range from 100 cfm with 4 in. diameter inlets to 1300 cfm unit with 10 in. diameter inlet connection. *Bulletin K-45.*



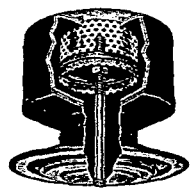
Circular or Square Diffuser Model

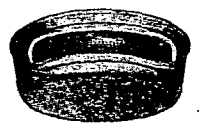
This unit has a Kno-Draft ceiling diffuser mounted directly beneath the attenuator, making inter-connecting low pressure ducts unnecessary. Six sizes, 80-1300 cfm air delivery range. Other models in the series are the Linear Diffuser which permits ceiling or wall mounting of linear diffusers—three sizes, 80-450 cfm; the Open End unit, used to supply remote diffusers or grilles through low pressure ducts; available with single rectangular opening for connection to rigid, low-pressure ducts, and with multiple round outlets for flexible duct connections; and the Grille Model, which is identical with the Open End unit except for its larger discharge opening that ensures quiet grille operation. Both the Open End and Grille Models are available in six sizes, 80-1500 cfm air delivery. *Bulletin K-53-A.*



Under-Window Model

The Under-Window Model, with 45 degree inlets and top or front discharge air delivery, produces the same draftless air flow pattern characteristic of all Kno-Draft equipment. Air moves upward along the window and out under the ceiling, effectively conditioning an area approximately 25 ft from the outside wall. Helical spring hot and cold air dampers ensure proper air mixing, and full heating and cooling is achieved because dampers close with less than 2 percent leakage. Model with vertical bottom inlets and top discharge outlet is also available. Three sizes, dual duct only, 80-450 cfm air delivery. *Bulletin K-53-A.*





Series HPC Valve Attenuators

Series HPC Valve Attenuators are manually balanced, single duct units for mounting under rectangular ducts. The HPCJ Model is specifically designed for exposed duct installations. Two sizes, 90-180 cfm air delivery. The HPCK Model is for flush ceiling installation. Six sizes, 100-1000 cfm air delivery. *Bulletin K-53-A.*