

Anemostat Corporation of America

10 East 39th Street, New York City, N. Y.

The Anemostat High Velocity Air Diffuser

THE ANEMOSTAT PRINCIPLE

ANEMOSTATS produce unparalleled results because they are the only air diffusers which operate on the following interdependent principles:

1. Air expansion within the device, which reduces velocity instantly.
2. True Aspiration, which causes room air equal to 30 to 35 per cent of the supply air to be drawn into the device where it is mixed with the supply air. The percentage of aspiration depends on the type of Anemostat used.
3. Creation of a multiplicity of air currents and counter-currents at low velocities, which causes slow but adequate secondary air motion.

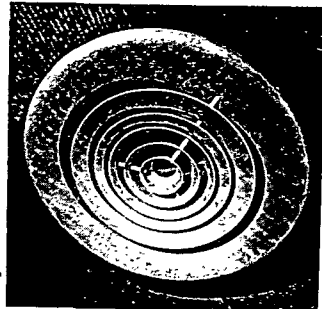
Type "AC" Anemostat is a combination device for supplying air and either extracting it or returning it to the conditioner. Designed to extract or return 75 cfm of room air for every 100 cfm of supply air. This percentage of extract or return may be increased or decreased by varying the extract velocities. It furthermore has an aspiration effect of 30 per cent. May be used with velocities up to 2500 fpm, and wherever both supply and return, or extract are required through the same unit. Should not be used with ceiling heights exceeding 14 ft.

Type "AR" Anemostat is a diffusion device, for supply air only for use in applications where a relatively high rate of air change (more than 12 per hour) must be maintained. It has 35 per cent aspiration. It is particularly suitable where obstructions such as beams or columns are close to the diffusion unit and restrict the normal radius of diffusion.

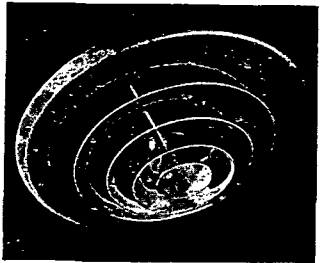
Type "B" Anemostat is a diffusion device for supply air only. It has 35 per cent aspiration. May be used with velocities up to 4000 fpm and is suitable for industrial and commercial installations. Can be used on either exposed or concealed duct work.

Type "C" Anemostat is a diffusion device for supply air only. It has 35 per cent aspiration. May be used with velocities up to 2500 fpm. Must be installed flush with ceiling and cannot be used on exposed duct work.

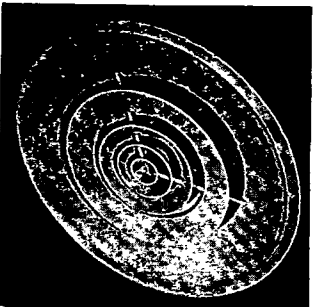
Type "HU-3" and "HU-4" Anemostats have been developed to obtain draftless, economical heat distribution from vertical discharge unit heaters, and uniform heat coverage of floor areas. Type "HU-3" and "HU-4" Anemostats may be combined with practically all sizes and types of Vertical Discharge Heaters on the market. A number of unit heater manufacturers now supply "HU" Anemostats as a part of their equipment. "HU" Anemostats may be used on duct work for general heating installations.



Anemostat Type "AC"
For supplying, extracting or returning air.



Anemostat Type "B"
For diffusion of supply air.



Anemostat Type "C"
For diffusion of supply air only.

"No Air Conditioning System is better than its Air Distribution"

Barber-Colman Company

Rockford, Illinois

ENGINEERED AIR DISTRIBUTION OUTLETS

VENTURI-FLO Overhead Air Diffusers

Venturi-Flo overhead air diffusers have flow characteristics similar to those of the well known fluid-flow measuring device—the Venturi Meter. The relationship between the neck area of the unit proper and the Venturi-Flo throat area is so proportioned as to create a slight back pressure in the neck at all times, thereby automatically insuring uniform distribution around the entire periphery of the unit.

Three types of overhead diffusers are available, the recessed, the surface, and the thermostatically controlled types. A wide range of sizes permits handling air volumes up to 15,000 cfm per unit. Fittings for attaching any standard light fixtures to the outlets may be obtained for all designs. The surface and recessed types can also be furnished as combination supply and exhaust units and with adjustable dampers.

Uni-Flo Grilles and Registers are especially designed for air conditioning applications. They are engineered and prefabricated with directional flow fins for each individual application. Proper air distribution is assured and the necessity for adjustment after installation obviated.

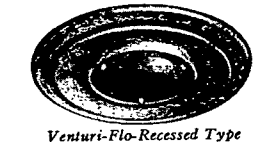
Uni-Flo Grilles and Registers can be furnished in a variety of shapes and sizes for plain and curved surfaces.

Registers are similar in construction to grilles but with the addition of spring loaded positive closing fan or key-operated dampers.

Electroplated Finishes: Gunmetal, brushed bronze, plain zinc, and satin copper; also available in gray prime coat and satin aluminum.

Uni-Flo Air Distribution Accessories: Include the Volocitrol and the Elturn. The Elturn is a scientifically designed and highly efficient air turning member. The aero-dynamically correct vanes reduce losses caused by eddies, reverse air flow and low pressure areas at the turn to a minimum. Elturns are prefabricated and are available in units of one piece construction in sizes up to and including 48 in. x 48 in.

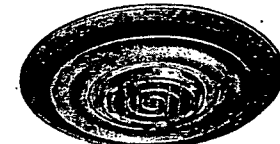
The Volocitrol has been designed to noiselessly provide positive and adjustable control of air volume, pressure and distribution across a supply outlet. They are available in two models, one for use with side wall and the other for overhead systems of air distribution.



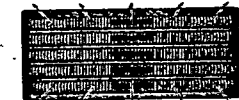
Venturi-Flo-Recessed Type



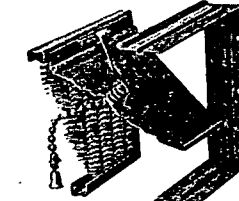
Venturi-Flo-Surface Type



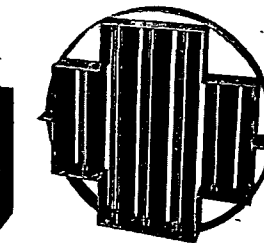
Venturi-Flo-Thermostatically
Controlled Type



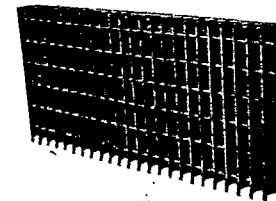
Uni-Flo Grille Model "M"



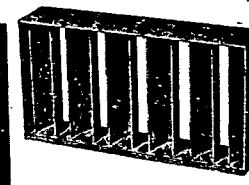
Uni-Flo Register Construction



Circular Volocitrol



Elturn



Volocitrol

SEE OUR COMPLETE CATALOG IN SWEETS