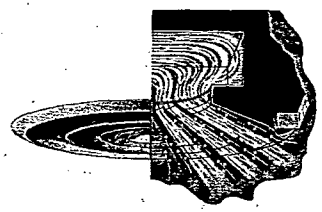
DATA ON ANEMOSTAT •

Principle of Aspiration

The Anemostat Air Diffuser splits the supply air into multiple, separate air streams and at the same time creates low pressure areas in certain parts of diverging passageways. This causes room air to be drawn into the device where it is thoroughly mixed with supply air. The mixture is discharged in a series of expanding turbulent air layers and, therefore, readily entrains a large amount of additional room air.

As a result, temperature and humidity are equalized throughout the room and a continuous air motion in the occupancy zone within low acceptable velocity limits is established. Stagnant air pockets are also avoided.

The quantity of room air drawn into Anemostat Air Diffusers depends on the specific design, size and type of the various units and is equal to as much as 35 per cent of the supply air. This effective aspiration distinguishes Anemostat Air Diffusers from all other air outlets.



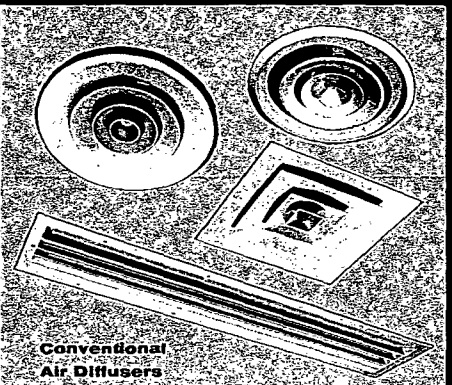
Smaller Ducts

Aspiration permits the use of higher temperature differentials and higher supply air velocities than customary, which results in savings in the initial cost of fans and ducts and in the operating cost of fans. Duct layouts may be simplified because Anemostat Air Diffusers distribute air evenly in spite of unusual room plans, columns or other obstructions.

Research and Engineering

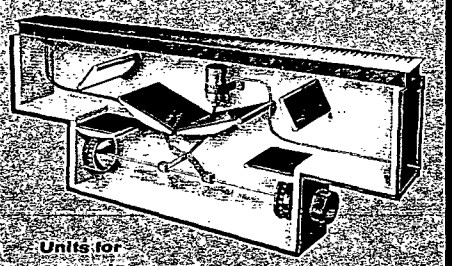
Anemostat Corporation of America maintains a large, well-equipped laboratory manned by experienced scientific and technical personnel for testing purposes and the development of new products. Engineers from all over the world have visited the Anemostat laboratory to witness demonstrations of Anemostat products and their applications to any conceivable problem pertaining to air diffusion. Anemostat has spent millions of dollars in research and engineering and will continue to make substantial contributions to the progress of the science of air distribution.

ANEMOSTAT®... has a product for every air distribution need



Conventional Air Diffusers

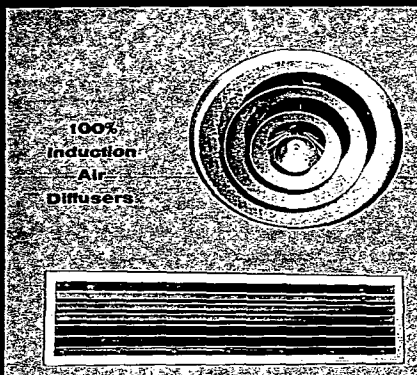
Anemostat air diffusers for conventional heating, ventilating and air conditioning systems provide thorough draftless comfort and uniform air distribution. They are the only air diffusers which have both primary (aspiration) and secondary characteristics. The cumulative effect of both primary and secondary induction assures the superior mixing and distribution of air. Only Anemostat Air Diffusers aspirate. More than a million of these units are serving in installations throughout the country.



Units for School Systems

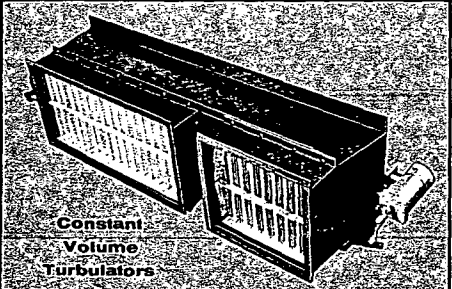
Anemostat Corporation of America has developed by research the ideal unit for heating and ventilating or cooling of classrooms from kindergarten through college and for all climates. When Anemostat Dual Duct Units are used students and teachers work in a controlled atmospheric environment which protects their health and promotes the efficiency of teacher and student.

Metal cabinets are available where architectural designs require free standing units. Anemostat All-Air under-the-window units can also be built in on exterior walls.



100% Induction Air Diffusers

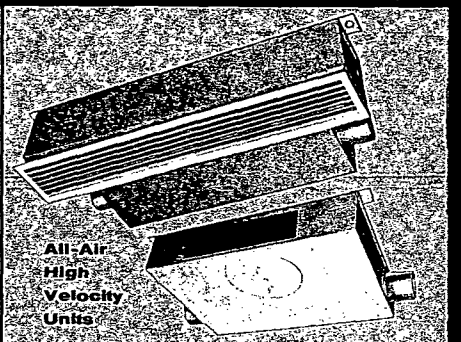
Anemostat high induction air diffusers provide good diffusion with high temperature differential. Because supply and return ducts, fans and filters are reduced in size in direct proportion as the temperature differential of the distribution air is increased, there is a definite and logical trend to use higher temperature differentials in both low and high velocity systems. Anemostat 100% induction air diffusers meet these needs, thus help provide vital space savings in system design.



Constant Volume Turbulators

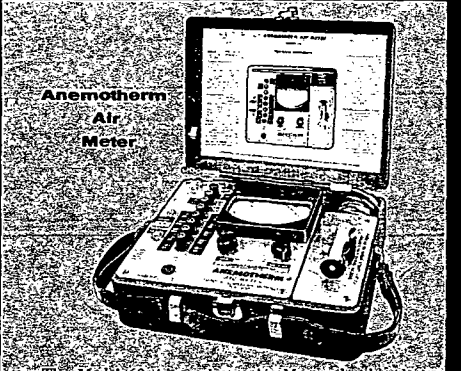
The Anemostat Constant Volume Turbulator is a standardized high capacity dual duct unit handling from 800 to 7000 CFM. It provides an economical solution to many air distribution problems in which a large volume of air at controlled volume or pressure and temperature is involved.

With the Anemostat system all thermal functions—heating—cooling—ventilating—are accomplished with air. Coils and resultant coil lag are eliminated together with required piping. Pressure losses are low and so are noise levels. Quality built Anemostat Turbulators function automatically. They are easy to install, simple to maintain.



All-Air High Velocity Units

Anemostat high velocity units are being used through the country in many applications such as hospitals, schools, office buildings and plants. The Anemostat all-air high velocity draftless system offers many important architectural and engineering advantages. It permits greater flexibility of design and reduces building costs because it can be used with smaller than conventional ducts. It can be installed faster. It requires no coils, thus eliminates leakage, clogging and odors. The Anemostat all-air high velocity system has earned wide-spread acceptance because of the simplicity of its design, installation, control, operation and maintenance.



Anemotherm Air Meter

The Model 60 Anemotherm Air Meter, developed by the Anemostat Corporation of America, gives you in one convenient instrument a simple, rapid method of balancing and checking any air system. It puts at your fingertips by means of color coded pushbuttons, air velocities, air temperature and static pressure—all vital readings you need. Model 60 Anemotherm Air Meter pays for itself on time saved on only one major job.