On pages 939-1280 will be found the Catalog Data of 233 manufacturers whose products are described and illustrated.

For the convenience of the user of THE GUIDE 1946 there are eight main divisions:

Air Conditioning	939-1002
Air System Equipment	1003-1100
Air Conditioning and Heating Piping	1101-1109
Bends, Coils, Fittings	1110-1117
Controls and Instruments	1118-1146
Heating Systems	1148-1235
Insulation	1236-1272
Publications	1273-1280

On pages 913-936, under each of the index headings—Air Cleaning Equipment, Fans, Humidifiers, Ventilators, etc., will be found a list of manufacturers of any desired products, fully cross-indexed, and the page numbers in the Catalog Data Section where the products are described.

By reference to these indices, the manufacturers names and the page numbers, any item of equipment or materials, and the producers address, may be located quickly.

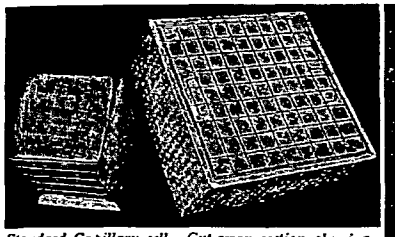
Air & Refrigeration Corporation

475 Fifth Avenue, New York 17, N. Y.

Atlanta, Ga. Detroit, Mich.

CAPILLARY

CAPILLARY AIR CONDITIONERS



Standard Capillary cell. Cut-away section showing oriented glass filaments. Size: 20 in x 20 in. x 8 in.

Air Conditioning Engineers and Industrial Engineers responsible for air conditioning should be familiar with the uses of this advanced equipment.

The standard Capillary cell is the basic element in all Capillary conditioners. The patented arrangement of glass filaments, essentially parallel to the flow of air and water through the cell, accounts for the highly efficient heat transfer between air and water as well as low resistance. At the same time, the cells act as an efficient air cleaner and the arrested dirt is continuously flushed from the cell.

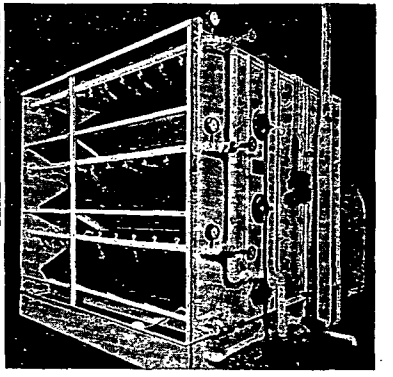
As a simple air washer, humidifier or evaporative cooler. Class I Capillary conditioners call for the recirculation of only 3 gpm per 1000 cfm distributed over the cells at 6 lbs nozzle pressure. The saturation efficiency is 97 per cent. Less efficient spray washers require 15 gpm or more at 20 lbs nozzle pressure.

For cooling and dehumidifying a single stage of Capillary cells equals or exceeds in capacity a 2-bank spray type dehumidifier.

Other Capillary types offer true counterflow performance with leaving cooling water temperature exceeding that of leaving air.

Where a closed system for the cooling medium is required (direct expansion, brine or cold water), Capillaries are offered with suitable coils after the Capillary cells. No filters are required. Coils are kept clean and evaporative cooling is available whenever entering wet-bulb conditions permit.

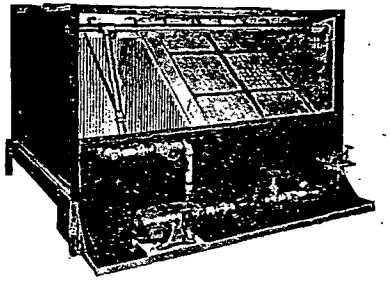
Simple, continuous water treatment is available to protect coils and other metal parts against corrosion.



A standard Size 6-6 Class I Capillary Central Station Installation.

Varied uses for Capillary conditioners are suggested by the intimate contact of fluid and gas passing through the cells. Among these are: condenser water cooling; fume absorption, aeration and concentration; air sterilization with agents added to water.

Capillary conditioners of all classes are made in central station units ranging from 2200 cfm to 132,000 cfm or larger. Assembled units including fans, heaters, coils, pump, insulated casing, etc., suitable for suspension or floor mounting range from 1000 to 16,000 cfm.



A standard Size 5-4 Capillary unit air conditioner complete in insulated casing. Capacity 16,000 cfm.

Submit design and capacity for specific recommendations or write for catalog and engineering data.