



## HOW to get drier or cooler AIR or GASES

NIAGARA AERO AFTER COOLER cools a compressed gas, or air, below the temperature of the surrounding atmosphere, thus preventing the condensation of moisture in your lines. The gas will contain only half of the moisture left in it by conventional methods. Even drier gas can be produced if you require it.

In working with controlled atmospheres of inert gases to prevent undesired reactions, this dryness of the gas at low cost is a great advantage. The cost of the Niagara method is low because it uses evaporative cooling, saving 95% of the cost of cooling water (and its piping and pumping.) This direct saving of cost pays for the Niagara cooler in less than two years.

If you use compressed air to operate instruments or pneumatic equipment you will get better results by using the Niagara Aero After Cooler.

Write for Bulletin 98, or ask nearest Niagara Engineer if you have a problem involving the industrial use of air. Address Dept. JA

**NIAGARA BLOWER COMPANY**  
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in Principal Cities of U.S. and Canada

## LITERATURE AVAILABLE

**Ammonia.** Fifty-page book on the technical aspects and allied topics concerning ammonia. The comprehensive book contains numerous charts and illustrations. There is a detailed discussion of the uses of ammonia in fertilizers, and safety data. SPENCER CHEMICAL CO. **L 1**

**Calcium Lignosulfonate.** Physical and chemical properties of Torinal, a degummed calcium lignosulfonate, are described in this 4-page folder. Present uses and suggested applications are also discussed. LAKES STATES YEAST CORP. **L 2**

**Flowmeter.** Bulletin covers design features, flow capacities, and maintenance requirements of a compact low cost flowmeter. COMMERCIAL RESEARCH LABORATORIES, INC. **L 3**

**Glass Heating Jackets.** Bulletin covers Pyrex brand E.C. coating glass for laboratory heating jackets. The coated tubing provides a tubular heat source that permits observation of processes within the tube. Bulletin includes wiring diagrams, operating data, and general performance characteristics. CORNING GLASS WORKS **L 4**

**Infrared analyzer.** Illustrated folder describes an infrared analyzer for continuous in plant process stream analysis. Principles of operation, detailed specifications, and features of the analyzer are presented. Typical applications are discussed. PERKIN-ELMER CORP. **L 5**

**Liquids Handling Equipment.** Folder describes a line of galvanized steel containers for filling, measuring, or transferring liquids. GEORGE D. ELLIS & SONS **L 6**

**Methoxychlor Sprays.** Bulletin prepared for processors and manufacturers of aerosol sprays gives information on the uses of methoxychlor in aerosol insecticide sprays and oil based sprays. Suggestions for formulation, data on solubility, types of solvents, emulsifiers, and a bibliography of manufacturers' literature are included. E. I. DU PONT **L 7**

**Needle Valves.** Design characteristics of a line of needle-type valves are explained in this 8-page bulletin. Reference

material includes a table of nominal needle sizes with corresponding valve coefficients, and a characteristic curve showing the per cent of maximum flow in relation to total lift. FOXBORO CO. **L 8**

**Solid Flow Measurement.** Equipment for controlling and recording the rate of flow of pulverized solids is described in this booklet. Methods for continuous proportioning, and photographs of installations and equipment are included. WALLACE & TIERNAN INC. **L 9**

**Sorbitol.** This 21-page booklet, "Sorbitol in Confection and Other Food," describes the characteristics and properties of sorbitol of interest to food processors and shows under heat conditions how sorbitol can be used advantageously. Recipes and procedure are included. ATLAS POWDER CO. **L 10**

**Trace Elements for Animal Nutrition.** Technical data sheet on 3,5-diododolycyclic acid, which has been developed as a source of iodine for incorporation in salt blocks for animal nutrition. The product is chemically stable against atmospheric oxidation or chemical reaction in salt formulations and requires no special techniques to prevent loss of iodine content. RINGWOOD CHEMICAL CO. **L 11**

**Urea Fertilizer.** Six important advantages of urea as a source of nitrogen in fertilizer are discussed. Fertilizer recommendations for various crops and soils are also included. The trend toward higher nitrogen fertilization is discussed. GRACE CHEMICAL CORP. **L 12**

**Vacuum Furnaces.** Brochure discusses growing field of vacuum metallurgy, includes comprehensive treatment of the effects of processing various metals and alloys in vacuum. Descriptions, with drawings, of several types of vacuum furnaces are included. F. J. STOKES MACHINE CO. **L 13**

**Valves.** The design and operation of a line of diaphragm operated solenoid valves is covered in this 4-page bulletin. Photographs, line drawings, specifications, and tables are included. ECLIPSE FUEL ENGINEERING CO. **L 14**

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