

INCREASED PRODUCTION AND A MORE UNIFORM
PRODUCT WITH A *Controlled Atmosphere*



Niagara "No-Frost" Refrigeration Unit produces temperatures as low as -90° F. in aircraft, motor vehicle and electrical test rooms. Used also to create extremely dry air for industrial and chemical processes.

A controlled atmosphere may be a particular gas, inert or reactive, or it may be air under controlled conditions of purity, temperature or moisture content. Its purpose is to further production or prevent loss of material or product, or to make a uniform and better product.

This Company has worked for many years among such problems and has developed special apparatus that has helped many industrial leaders to improve their manufacturing.

Always, there is a problem of moisture and temperature, whether it may be a special gas atmosphere for heat treating, or air under most precise specifications for a process with hygroscopic materials, or a "cold test" room at -90° F.

Niagara Units for industrial air and gas conditioning make it easier for you to find equipment that will produce the conditions you need with both installation and operating economy.

Write for a Niagara Blower Bulletin on a subject which interests you, or for the address of the nearest Niagara Field Engineer.

NIAGARA BLOWER COMPANY

Over 35 Years of Service in Industrial Air Engineering
405 Lexington Ave. New York 17, N. Y.
District Engineers in Principal Cities

INDUSTRIAL COOLING HEATING • DRYING
NIAGARA
HUMIDIFYING • AIR ENGINEERING EQUIPMENT

position, the way streams transfer its effects on power-plant operation. Outlined are methods whereby to control or reduce it at steam-electric generating stations. MPC Paper.

STEAM POWER

Steam Power Plant Appraisal, by H. F. Lowe, Sloan, Cook & Lowe, consulting engineers. It is no more possible to determine the value of a power plant in terms of present-day dollars by merely referring to cost records than it is to decide on the fair selling price of a used car by finding its original cost and deducting the amount of money an owner may have set up in his personal account for depreciation. You have to appraise the item. Such an appraisal is "Reduction Cost New Less Depreciation."

The first part of this term can be arrived at by using index numbers or conversion factors to convert historical costs to present-day levels. Bear in mind that back in the 30's in the area of competition certain major equipment was furnished at prices way below the average of bids from many reputable concerns. Further, much equipment now standard today, when installed years back was still in the development stage and its old price was high because of development costs. Use of conversion factors is obviously a detailed and specialized operation.

Next part—the job of adjusting production cost to existing depreciation rates—involves close study of 30% tolerance factors, improved efficiency, mass-production developments, and other elements above and beyond operating life that set the economic life of equipment. MPC Paper.

Package Steam Units, by F. D. Hagan, Cleaver Brooks Co. The package steam generator, by the author's definition, is a self-contained assembly, including boiler, boiler trim, fuel burner, and various electrical controls. It uses gas or oil, and serves commercial and industrial markets for both steam heating and power generation. It is primarily a firetube design.

Annual oil consumption in this class of boilers is estimated at 90,000,000 barrels per year; 14,000,000 are No. 1 oil and 16,000,000, No. 5 and 6. For No. 3 oil this represents only 1% of the national total. Today's trend seems to point up a change in oil-burning habits. No. 3 represents no more than 15% of the total fuel oil being burned in all package steam boilers being sold. OHI Paper.

(Continued on page 174)

POWER • October



TO MARK PROGRESS

SEAMLESS WELDING FITTINGS

1/2"-30" STD. thru XXH
90° Elbows
45° Elbows
180° Return Bends
Full Branch Tees
Reducing Outlet Tees
Concentric Reducers
Eccentric Reducers
Lap Joint Stub Ends
Saddles & Caps

SEAMLESS REDUCING ELBOWS

1/2"-1"-6"x5" STD. & XXH

FORGED STEEL FLANGES

1/2"-30" 150# thru 2500#

Welding Neck

Slip-on
Lap Joint
Threaded
Blind
Socket-Welding
Reducing
Orifice Unions

LONG WELDING NECKS

FORGED STEEL FITTINGS

Screwed & Socket Weld
1/2"-4" 2000# thru 6000#

90° Elbows
45° Elbows
Tees
Crosses
Street Elbows
Laterals
Couplings
Reducers
Bushings
Plugs
Caps

AVAILABLE IN CARBON, ALLOY
AND STAINLESS STEELS

Complete Selection

OF YOUR FITTINGS NEEDS FROM THE
LADISH *Controlled Quality* LINE



You can secure your entire requirements from one source by standardizing on the complete Ladish line of Seamless Welding Fittings—Forged Steel Flanges—Forged Steel Screwed and Socket Welding Fittings. Complete range of sizes... Carbon, Alloy and Stainless steels... forged to the uncompromising standards of Ladish Controlled Quality.

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