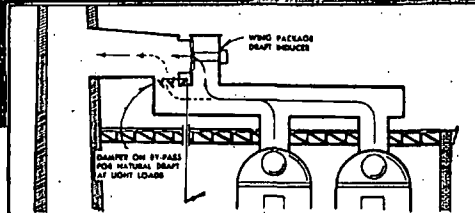
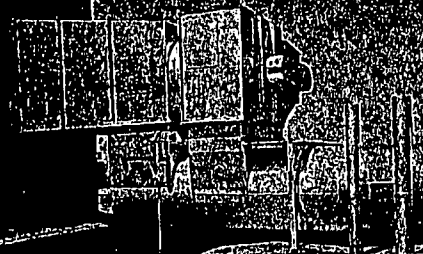


The WING Package DRAFT INDUCER



WING PACKAGE POWER PLANT DRAFT INDUCER at WELCH GRAPE JUICE COMPANY'S PLANT AT WESTFIELD, N.Y. SERVES TWO 20,000 lb./hr. BOILERS. NOTE (A) INDIVIDUAL CONNECTION FROM EACH BOILER (B) BY-PASS WITH DAMPER CONTROLLED FROM BOILER ROOM, PERMITTING NATURAL DRAFT AT LOW LOADS (C) RELATIVE LIGHT WEIGHT AND COMPACT PACKAGE DESIGN PERMITS SUPPORT ENTIRELY ON COMMON BRICKING.

The WING Package DRAFT INDUCER is unique in that the motor (or turbine) and fan is designed as one complete removable unit, making installation easier and being easily removed, facilitates inspection and maintenance. Other advantages are:

1. Big savings in space requirements
2. Permits fewer and lighter structural supports
3. Eliminates field line-up problems
4. Eliminates water cooling
5. Only two support bearings
6. Wide flexibility in gas outlets
7. Saves on investment and maintenance
8. Low load ratings on natural draft because of ample free gas travel area

Write for complete details

L. J. Wing Mfg. Co.
50 Vreeland Mills Road
Linden, New Jersey

Wing



More POWER NEWS

plant is operated by Associated Universities, Inc. under contract with AEC.

(2) Atomic Submarine Reactor—a 1/4 in. model of the plant being built by General Electric Co. to power the first atomically driven submarine.

(3) Commercial Atomic Power Plant—a model of the reactor designed and built by North American Aviation, Ltd. to deliver 10,000 kw.

On the Wednesday preceding the conference, Brookhaven National Laboratories will give 100 of those attending a 4-hour conducted tour of their atomic installations. Since attendance is limited, reservations will be accepted in order of receipt.

Liquid sodium is undergoing handling tests in an experimental installation at the Knolls Atomic Power Laboratory, General Electric Co., working for the Atomic Energy Commission, is studying the problem of electromagnetically pumping and metering the liquid metal used as a reactor coolant.

The company has devised a closed circuit loop to obtain performance curves by computing pressure versus flow, using voltage, pressure, and sodium temperature varianta. Temperatures range from 580 to 1000 F; pressures, from 0 to 75 delta pressure. A magnetic flowmeter measures gallons per minute within an accuracy range of 2 percent.

The pump and flowmeter developed for installations such as this one operate on magnetic principles and have no moving parts. They are now commercially available from the G-E Special Products Section.

Electric monitors soon will control the operations of atomic piles, according to Minneapolis-Honeywell Regulator Co. The first "packaged" automatic control system includes amplifiers, servo-amplifiers, recorders, controllers and servo motors.

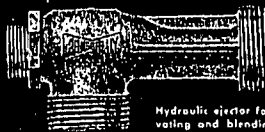
These will regulate the rate of power generation of the nuclear reactors at predetermined levels. The new system also provides robot-like safeguards against dangerous operating conditions and will be especially valuable when private industry starts converting nuclear energy into electric power.

ATOMIC ENERGY COMMISSION projects are using more than 1000 large electric motors ranging in size from 850 to 850 hp. Westinghouse Electric Corp.'s Pittsburgh and Buffalo plants will supply the entire order. The larger motors will have an efficiency rating exceeding 96% and will be designed to run continuously for 365 days a year. All units will have electrically operated brakes.

ATOMIC UTILITIES OF ARIZONA has applied to the Arizona Corporation Commission for a statewide certificate to construct and

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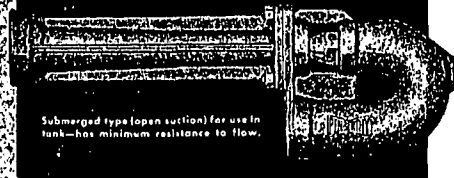
PENBERTHY JET PUMPS



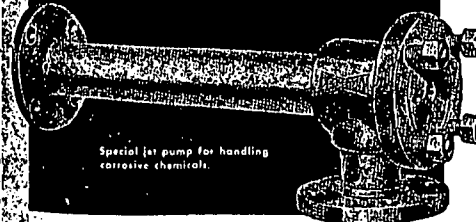
Hydraulic ejector for lifting, elevating and blending of liquids and slurries.



Steam or air operated ejector for a wide range of operating conditions.



Submerged type (open suction) for use in tank—has minimum resistance to flow.



Special jet pump for handling corrosive chemicals.

Consider the simplicity of the jet pump. It uses steam, water, air or gas under pressure to transfer or mix, without clogging, *any liquid which will flow through pipe*. It has no moving parts or packing glands. Needs no lubrication or maintenance. It's practically noiseless, costs little and is compact.

Penberthy makes a full range of jet pumps. They are being used in standard and unusual applications. Where necessary, they are made to withstand corrosion, contamination and high temperatures.

Penberthy, from wide experience, can help you save time and money, increase the efficiency of your operation. Take the first step by writing for Bulletin No. 512 which details the complete line of jet pumps by Penberthy.

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