

YES!

Pangborn's "Corn Grit" AC-4 Blast Machine CLEANS Diesel-Electric Motors WITHOUT SOLVENTS!



SAVES TIME BECAUSE DRYING PERIODS ARE UNNECESSARY!



The Pangborn AC-4 Blast Machine cuts down-time to less than half by *eliminating waiting* for parts to dry . . . by *cleaning faster* . . . by *requiring no dismantling* in most cases. It uses soft 20-mesh corn cob grits to remove dirt, grease, old paint, etc. quickly and efficiently, without harming coils and other delicate parts. Look at these features:

- Cleans in less than half the time of other methods
- Requires no drying periods
- Material costs average 90% less than old-fashioned methods
- Does better job, leaves parts clean and bright
- Eliminates toxic hazards of solvents
- Portable—easily moved from job to job

Write for complete information, telling us what you clean, to: PANGBORN CORPORATION, 90 Pangborn Boulevard, Hagerstown, Maryland.

Look to Pangborn for the latest developments in Blast Cleaning and Dust Control equipment.

Pangborn

BLAST CLEANS CHEAPER with the right equipment for every job

More POWER NEWS

Begins on page 130

dustrialization and modernization of the country's backward rural economy, the electrification program called for a 500-million kwhr increase in power supplies this year.

Human Engineering Institute, stressing practical design problems, will be held the week of August 3, 1953, in Stamford, Conn. Conducted by Dunlap & Associates, Inc, the course will cover principles and methods of equipment design, work place arrangement and work environment improvement—all contributing to safe, efficient operation, simplified selection, training and maintenance, and increased user satisfaction. The course will be limited to about twelve participants. For details, write to Dr Jerome H Ely, Human Engineering Institute, Dunlap & Associates, Inc, Box 1070, Stamford, Conn.

The National Bureau of Standards will adopt a new value for the viscosity of water on July 1, 1953. Following the research of J F Swindells, J R Coe Jr and T B Godrey, 1.0038 centistokes at 68 F has been established in place of 1.0070 centistokes at 68 F—the value currently in use.

The ASTM Committee D-2 on Petroleum Products and Lubricants is preparing the necessary revisions to the viscosity standards and tentatives affected. (D445, D446, D666 and D567.) Method D445-52T will be revised to cover the new value.

Changes in viscosity measurements will be affected, and changes in standards will be necessary. All kinematic viscosity measurements, for example, will be reduced by 0.318%. Saybolt Universal and Furol viscosities, however, will not be affected. Viscosity conversion tables ASTM D-446 and ASTM D666 will require revision.

All kinematic viscometers will require restandardization or recalibration. Viscometers having C-constants that are not simple numbers (0.1, 0.3, 0.5, etc) may be restandardized or recalibrated by multiplying present factors by 0.99682.

The value of secondary standard oils in use by laboratories also will have to be reduced by 0.318%. The National Bureau of Standards will revise the values of the viscosity standard oils they distribute as of July 1, 1953.

A large generator with liquid-cooled conductors, said to be the first in the history of the electrical industry, will be manufactured by General Electric Co, reported Vice-president Glenn B Warren.

The stator of a turbine-generator set for the new East Lake power plant of Cleveland Electric Illuminating Co will use the new method of circulating liquid through hollow conductors. The unit, consisting of a tandem-compound turbine rated at 208,000 kw and a generator rated at 260,000 kva, will be one of the largest in the world.

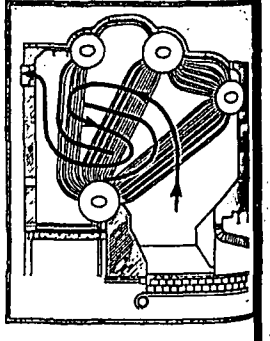
This type of liquid cooling makes possible a significant increase in capability of generators without increasing physical dimensions of the units. The higher capability results from more efficient removal of heat produced during generation.



These important fuel saving, maintenance-reducing features are obtainable with Enco boiler baffles—and only with Enco baffles.

- Streamlined gas flow
- Uniform gas flow
- Elimination of bottle necks
- Reduced draft losses
- Higher heat transfer
- Cleaner heating surfaces
- Less use of soot blower
- Special provision for expansion
- Easy tube replacement
- Adaptable to any water-tube boiler, fired by any fuel

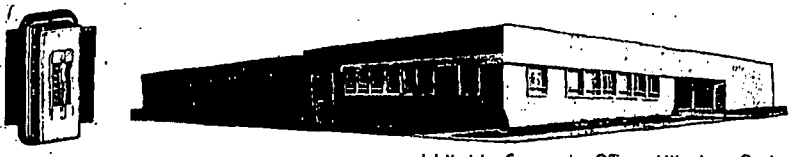
Each application is designed on the basis of more than a quarter century of experience in this specialized branch of power engineering. Installations are made by skilled mechanics.



THE ENGINEER CO.

Enco 75 West St. New York 6, N.Y.

Another Example of the *Adaptability* of JOHNSON AUTOMATIC TEMPERATURE CONTROL



J. J. Hanighen Company, Inc., Office and Warehouse, Omaha, Neb. Noel S. Wallace, architect, Omaha. J. J. Hanighen Company, Inc., mechanical engineers and heating, ventilating and air conditioning contractors.

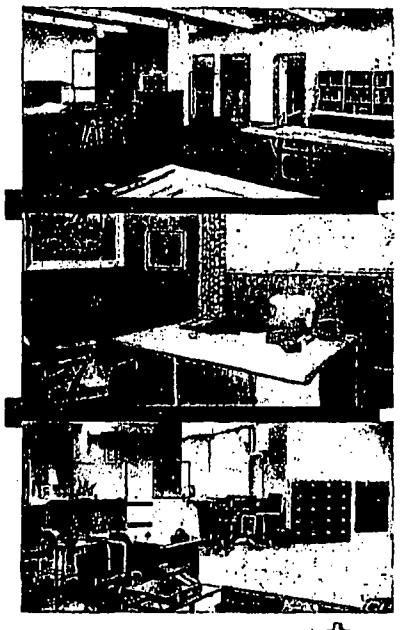
One of the most modern office and warehouse buildings recently constructed is the J. J. Hanighen Company, Inc., plant in Omaha, Nebraska, a firm which specializes in heating, air conditioning, plumbing and power plant installations.

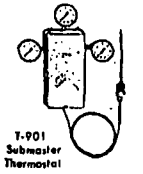
This unusual building is another example of the adaptability of Johnson Automatic Temperature Control. The entire building is heated by radiant panels in floors and outside walls. Johnson Master-Submaster Control, regulating the valve in the steam supply to a hot water converter, supplies hot water to the panels at the exact temperature dictated by the outdoor temperature. Superimposed upon this weather-compensated system are Johnson T-403 *individual room* thermostats, operating Johnson V-149 water valves on the supply to individual panels and providing the optimum in room-by-room comfort and fuel savings.

Behind-the-scenes, Johnson Master-Submaster Control operates Johnson valves and damper operators on the central fan ventilating and air conditioning system which serves the general office, private offices, reception room, conference room and large engineering and drafting room.

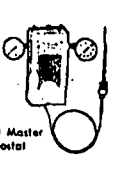
All control apparatus is combined in a planned-for-the-purpose, installed-for-the-purpose automatic control system, resulting in maximum comfort and savings for every heating and cooling dollar.

Johnson Automatic Control Systems are designed specifically for each individual installation. Let a Johnson engineer from a nearby branch provide the answer to your temperature control problems. A talk involves no obligation. Ask him to call anytime. JOHNSON SERVICE COMPANY, Milwaukee 2, Wisconsin. Direct Branch Offices in Principal Cities.





T-901 Submaster Thermostat



T-900 Master Thermostat



D-251 Piston Damper Operator



V-149 Water Valve



V-103 Steam Valve

JOHNSON *Automatic Temperature and Air Conditioning* CONTROL

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