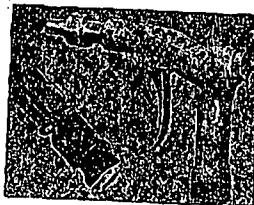


new installations. Units feature: (1) horizontal rotary design, (2) V-belt drive for high cup speed, (3) oil heater on pressure side of pump, (4) adjustable air nozzle, (5) dual pumps and reservoir combined with constant oil-rate control for controlled firing regardless of viscosity variation. Superior Combustion Industries, Inc., 1475 Broadway, New York 18, N. Y.

Package Boiler

845 • New 500 hp unit has been added to the line of Amesteam generators. Twenty sizes are now available from 10 to 500 hp, for pressures from 15 to 200 psi, firing with oil, gas or oil-gas combinations. Ames Iron Works, Inc., Box R-3, Oswego, N. Y.



Tube Cleaner

1018 • New tube-cleaning water gun and projectile operate from 120 to 200 psi. Gun is adaptable to different tube sizes by changing nozzles, and vacuum breaker pre-

vents water from floating back into boiler when valve is closed. Cleaning gun has high-pressure scraper that can remove loose scale rather than ride over it. Condenser Cleaners Mfg. Co., Inc., Cartney St., Pittsburgh 20.

Steam Generator

722 • Cyclotherm steam generators guarantee heat transfer. Package boiler hp (34.5 lbs of steam per sq ft above 212 F) for every 8 sq ft of surface. Capacities from 720 to 2,000 per hr, 15 to 200 psi. Air enters combustion chamber at a high velocity with incoming fuel in a spiral fashion. The entire length of the furnace is a controlled vortex gives a highly efficient combustion rate and is said to allow full from a cold start in 15 to 20 minutes. Cyclotherm Div., United States Steel Corp., Oswego, N. Y.

Water-Tube Steam Generator

716 • These packaged generators are available in 9 sizes with capacities from 5300 to 33,000 lb per hr, and pressures up to 400 psi. Units are built structural steel base, requiring no setting or special foundation. Cast-iron skid for permanent outdoor installation. The boilers are of the "A" type construction. Unobstructed firebox floor makes sign adaptable to stoker installation. Specially designed induced draft fans dual fans and divided second pass provide flexibility of firing range. Superior Combustion Industries, Inc., 1475 Broadway, New York, N. Y.

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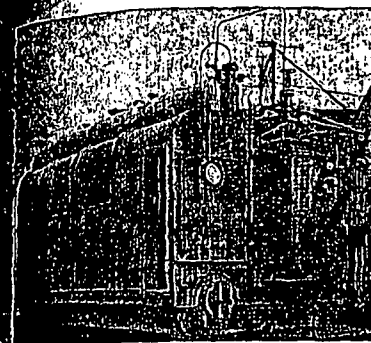
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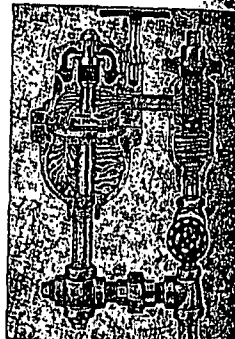
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Package Steam Generators

802 • Package unit water tube boilers are enclosed in insulated, structural steel casing. Unit requires only simple foundation and necessary service connections for operation. The boiler is a two-drum longitudinally fired unit, with furnace formed by equally spaced U-shaped tubes rolled into steam and water drums. Sidewall headers are eliminated. 36-in. steam drum and 34-in. mud drum are standard for all units. Available in both induced and forced-draft design, boilers burn oil, gas, oil or combination. Units are made in wide range of capacities for capacities to 30,000 lb per hr. Suitable for indoor or outdoor installation. Henry Vogt Machine Co., Louisville 10, Ky.



Orifice Meter

709 • New orifice meter is designed to provide continuous boiler blow-off without excessive heat waste, manufacturer's unit is connected to the surface and continuously drains water from what is said to be the area of greatest concentration of impurities. Orifice plate with 17 calibrated orifices permits selection of proper orifice for any operating condition. Madden Corp., 1543 Morse Ave., Chicago 26, Ill.

CONTROLS: ELECTRIC & MECHANICAL

Combustion Safety Control

1945 • Designed for centralizing combustion safeguard equipment for 2 to 16 burners, Protect-O-Gas system incorporates flame rectification combustion safeguard principle. The system features individual flame detecting relays for each burner housed in a single cabinet. Relays are used in conjunction with a photocell flame detector in the case of oil-fired burners, or with a flame electrode detector on gas or gas-piloted oil fired installations. Flame detector and relay circuit is to shut down the fuel supply in the event of flame failure at the burner. Minneapolis-Honeywell Regulator Co., Industrial Div., Wayne & Roberts Aves., Philadelphia 44, Pa.

Overcurrent Relay

840 • Type CO protective relay is used principally for protecting transmissions and distribution lines, and are available in one of three ranges: 0.5 to 2.5-amps, 2 to 6-amps, or 4 to 12-amps. Westinghouse Electric Corp., Box 2099, Pittsburgh 30, Pa.

Gas, Oil Burner Programming

844 • Furex programming control type 2818 is for automatic starting and pro-

The Showcase of New Equipment



Stack Dust Scrubber

452 • New system for controlling stack dust combines several principles of dust precipitation. Device is known as the liquid precipitator multiple-action scrubber (type VI), has capacities from 1500 to 48,000 cfm. Height ranges from 14 ft 10 in., to 32 ft 10 in. Dust is reduced to watery sludge and discharged. System requires 2 gpm of water at 40 to 50 psi for each 1000 cfm. Johnson-March Corp., Philadelphia 3, Pa.

ply; special units for 230 v or 25 cps. Snap-action relay rated 10 amps at 115 or 230 v. Light burns full brilliance when relay is open, half brilliance when relay is closed. Thermo Instruments Co., 1166 El Camino Real, Belmont, Calif.

Electronic Humidity Control

1159 • Two-position or proportioning, humidifying or dehumidifying electronic unit used for process or comfort control. It features sensitive, instant response with plug-in element, wide range, and simple adjustments. Moisture-sensitive element changes resistance instantly with minute changes in relative humidity. Barber-Colman Co., Rockford, Ill.

Carbon Monoxide Detector

1117 • Completely automatic system conducts continuous sampling and chemical analysis of air pumped from various areas in building, sounds an alarm when any analysis shows undue concentration of carbon monoxide, and keeps permanent record of analysis results for future reference. Teller & Cooper, Inc., 75 Front St., Brooklyn 1, N. Y.

Electronic Control

1203 • This control is designed to hold alternator frequency within 0.001% on motor-generator sets supplying up to 10

