

extremely unfavorable atmospheric conditions. Allis-Chalmers Mfg Co, Milwaukee, Wis.

M42 DISTRIBUTION CAPACITOR—New design permits the 25-kvar capacitors to increase their capacity 66 2/3% over present 15-kvar unit, with an increase in weight and volume of only 50%. Size of new unit is equivalent to that of existing 15-kvar unit. Inertan provides the dielectric, while porcelain terminals are solder sealed for tight weatherproof bushing joints. Steel case is welded and has a weatherproof zinc spray finish. Westinghouse Electric Corp, P O Box 868, Philadelphia 80, Pa.

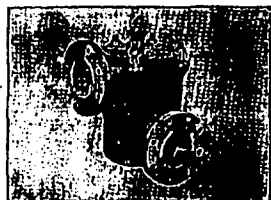
M41 LAMP CAPACITOR—For power-factor improvement of fluorescent lamps, these capacitors are listed by Underwriters' Laboratory, Inc., as meeting their requirements for correcting power factor of low power-factor ballast. These Solar FF fluorescent condensers are available in three ratings for operation at either 118, 208 or 236v, 50-60 cycles, ac. Used singly or in recommended combinations, maker says these capacitors will assure 85% power factor, or better. Solar Capacitor Sales Corp, 1445 Hudson Blvd, North Bergen, N. J.

PIPING, FITTINGS AND SPECIALTIES

P1 THERMOSTATIC TRAP—Cast-steel thermostatic trap with helical bellows withstands shock, handles condensate and operates at pressures up to 300 psi, or with superheat. Sarc Co, Empire State Bldg, New York, N. Y.

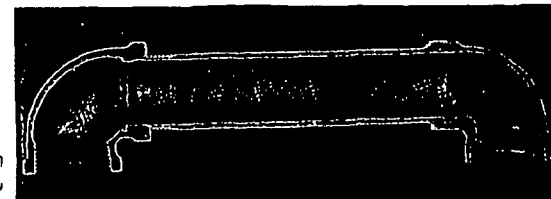
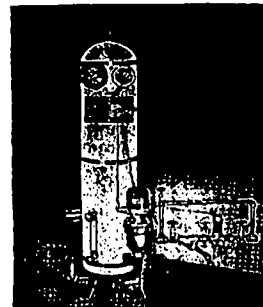
P2 AIR SEPARATOR—CMD Model E separators, mechanical in operation, require no attention other than draining off condensate that accumulates in chamber. This model has rated capacity of 250 cfm. Chicago Mfg & Distributing Co, 1928 W 46th St, Chicago, 9, Ill.

P3 PIPELINE STRAINER—O 1001 strainer permits complete draining the line. With inlet and outlet at right angles, strainer may be installed to form a right-angle connection in piping system. Clean-out plug allows steam blowdown cleaning when practical. J A Zarn Mfg Co, Erie, Pa.



P4 PIPE CLAMP—High-temperature pipe clamps come in several sizes from 4 to 16 inches. Clamp is of chrome vanadium steel as one piece drop forging equipped with U-bolt of same material. Grinnell Co, Providence, R. I.

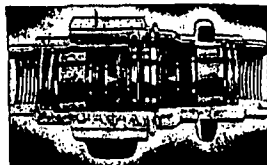
P10 CONDENSATE DRAINER—Quick-temp accumulator, built for working pressures up to 150 psi, handles drainage from



P11 BRAZED FITTINGS—Flagg-Flow threadless fitting is first black malleable fitting produced for brazing to steel or wrought-iron piping. Brazed into machined socket in fitting, piping end is flush with shoulder. Photo contrasts brazed joint (right) with screwed joint. Flagg-Flow fittings are designed for pipes 2 in. and smaller, rather than for larger sizes.

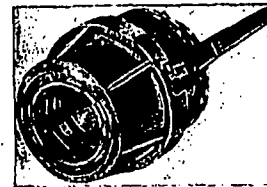
steam-heated machines. Based on results obtained from initial installations, maker offers system to all users of steam-heated process equipment to which it may apply with guarantee of 10% minimum increase in production potential. F H Schaub Energy Co, 2110 S Marshall Blvd, Chicago, 23, Ill.

P6 QUICK-DISCONNECT COUPLING—Designed for rapid change, coupling applicable to air, gas and hydraulic systems. Dual valves are self-closing when union is



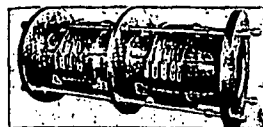
broken. Coupling made in 1/4- to 1 1/2-in. sizes and seals easily under high pressure in Freon systems. Foxton-Mitchell Co, 27th & Martha St, Omaha, Neb.

P7 TRIP PROOF COUPLING—Quick pipe coupling combined with positive shut-off valve by means valve lever with locking collar of coupling. Valve must be in shut-off position before coupling can be broken, and coupling must be locked to its



making nipple before valve can be opened. Royltn, Inc, 718 W Wilson Ave, Glendale, 3, Calif.

P3 FINNED TUBES—Bell end finned tubes, generator air coolers, aftercooler economizers and other heat exchangers now available, in Admiralty tubing with copper fins solder bonded to tubing. All-steel tubes can be supplied for high temperatures. Flintube Coil Corp, 635 E Garvey Blvd, Monterey Park, Calif.



P9 EXPANSION JOINT—Consists of two corrugated elements lined together by a section of pipe. Amount of lateral movement that can be absorbed depends on pipe length between corrugated elements. Zellen Bros & Johnson, 888 Locust St, Wilmington, 99, Del.

P5 AUTOMATIC AIR VENTS—Maid-O-Mist automatic air vents designed for hot or cold-water lines, hot-water radiators, unit heaters, etc. where air pockets slow down

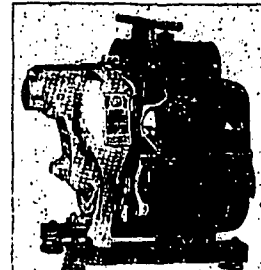


circulation. Working parts mounted on removable bonnet for quick servicing. Maid-O-Mist, Inc, 3217 N Pulaski Road, Chicago, 11.

PUMPS

R1 FUEL TRANSFER PUMP—Portable 100-gpm unit includes lightweight engine, rotary pump, air eliminator and metering device mounted on rack. Designed for fueling and defueling tank trucks and for fueling tractors, buses, etc. at railroads, airports, docks, etc. Harman Equipment Co, Los Angeles, Calif.

R10 LIGHTWEIGHT PUMPS—Priming at high suction lifts features lightweight self-priming pumps. Classed as general utility units, they may be used where lightweight and easy transportation is required.



The Aldget, 1 1/2-in. pump, powered by 1 1/2-hp single-cylinder, 4-cycle air-cooled engine, has maximum capacity 85 gpm at 30-ft head, maximum suction lift 30 ft, priming time 1 1/2 min at 25-ft suction lift, weight 26 lb. Powered by a 5-hp engine, 3-in. pump has 280-gpm maximum capacity at 30-ft head, priming time 1 1/2 min at 25-ft suction lift, weight 117 lb. Gorman-Rupp Co, Mansfield, Ohio.

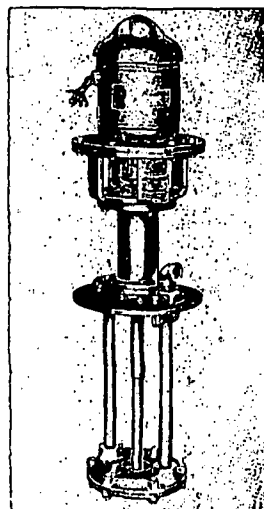
R2 POWER PUMPS—For larger power ranges up to 2400 hp septet reciprocating pumps use standard quintuplex parts to construct assemblies of 7 and 9 elements. Method of lubrication permits pumps to operate at speeds so that they can be directly driven by synchronous motors mounted on pump crankshaft. Aldrich Pump Co, Allentown, Pa.

R3 GEAR ROTARY PUMPS—For continuous service at 1000 psi and intermittent service at 1500 psi, gear rotary pumps are rated 51 gpm at 2800 rpm, 8 gpm at 1800 rpm, and 15 gpm at 1200 rpm. Units can be driven directly, or by belt, gear or chain. Aero Equipment Corp, Bryan, Ohio.

R7 CENTRIFUGAL PUMP—Suitable for handling acids, salts, alkalis, etc. pumps are produced from aluminum bronze, with capacities ranging up to 240 gpm and heads up to 170 ft. Units are single stage, single section. Ampeco Metal, Inc, 1745 S 38th St, Milwaukee, 4, Wis.

R8 CLOSE-COUPLED PUMP—Unit combines pump and motor in compact assembly ready to install and operate. Comes in 17 capacities up to 2000 gpm and heads up to 400 ft, depending on pump size. Goulds Pumps, Inc, Seneca Falls, N. Y.

R12 ACID PUMP—A manually operated acid pump safely handles liquids from carbons, drums or barrels. Pumps are hand or foot operated. General Scientific Co, 27th & Huntington St, Philadelphia 32, Pa.



R4 OVERHEAD BEARING PUMP—Wet-plt pump built without submerged bearings for handling abrasive and corrosive liquids. Suited to handling heavy liquids up to 1000 F, and liquids containing solids. Nagle Pumps, Inc, Chicago Heights, Ill. (photo above)

R9 HIGH PRESSURE PUMPS—Six-stage high pressure centrifugal pumps are for boiler pressures up to 1200 psi and are designed to be in both axial and radial hydraulic balance. Warren Steam Pump Co, Warren, Mass.

R6 ROTARY HAND PUMP—Meter-equipped vane rotary hand pump equipped with white-carbon vanes and aluminum rotor, for fueling or dispensing liquids up to 10,000 ssv viscosity. Bowser, Inc, Fort Wayne, Ind.

R5 GEARLESS PUMPS—Double-impeller gearless units handle nearly all liquids. Bodies are of stainless steel, Monel or bronze to meet wide range of applications.

