B9 **Condenser Tube Inserts**—for sealing off deteriorated tube inlet. 4 pages. Bulletin 500. Thomas C Wilson, Inc, 21-11 44th Ave, Long Island City 1, N. Y.

B10 **Surface Condensers**—Cutaway views of design, construction, steam, air and water flow. Booklet B-4350, 32 pages, illustrated. Westinghouse Eelectric Corp, Box 3099, Pittsburgh 30, Pa.

B11 **Precipitator** — Design features of Cottrell precipitator for paper industry. 4 pages, diagram. Research Corp, Bound Brook, N. J.

B12 **Dust Collectors** — efficiency curves, arrangements, dimensions, flue-gas density tables and nomograph for calculating required tubes. 8 pages. Prat-Daniel Corp, 2 Meadow St, South Norwalk, Conn.

B13 **Dual-Stage Burner**—Combining steam and mechanical atomization, capacities 80 to 280 gph. 2 pages; illust. Bulletin 28. National Airoil Burner Co, 1324 E Sedgley Ave, Philadelphia 34, Pa.

B14 **Dampers and Damper Operation** —12-page Catalog 5503 describes louver, round, mixing outlet, outlet and fire dampers; electric, pneumatic and manual damper operators. Includes velocity-pressure drop charts, application data, ratings. Minneapolis-Honeywell Regulator Co, Brown Instruments Div, Sta 319, Wayne & Windrim Aves, Philadelphia 44, Pa.

B15 **Cyclone Furnaces**—Hardening, annealing, normalizing, tempering, nitriding and special heating functions described. 8 pages, illustrated. Bulletin 121. Lindberg Engrg Co, 2450 W Hubbard St, Chicago 12, Ill.

B16 **Refractory** — Thin, interlocking tiles for water walls, baffles, roof coverings. 8 pages, specs. Laclede-Christy Co, Arcade Bldg, 812 Olive St, St. Louis 1, Mo.

B17 **Boiler-Heater Unit** — Kewanee boiler, Iron Fireman burner in package unit, 55 to 468 hp, 138 to 100 psi. 12 pages, illust. Form 2814. Kewanee-Ross Corp, Kewanee, Ill.

B18 **Steam Boiler Units**—packaged, automatic, oil or gas or combination, high and low pressure, low pressure heating. Bulletins 506, 509, 5100, 510. Johnston Brothers, Inc, Ferrysburg, Mich.

B19 **Steam Accumulators**—to balance steam supply with demand, take fluctuating load off boilers. Bulletin RA-55-8, 8 pages. Foster Wheeler Corp, 165 Broadway, New York 6, N. Y.

B20 **Air Cooled Heat Exchangers**—forced draft type for liquids and gases at pressures to 6000 psi and temperatures to 1000 F. 12 pages, Bulletin FF-FD-0.091. Fluor Corp, Ltd, 2500 S Atlantic Blvd, Los Angeles 22, Calif.

B21 **Steel Boilers**—Improved boiler line with specifications, dimensional data. 4 pages, drawings, photographs. Catalog JR-10-1. Fitzgibbons Boiler Co, Inc, 101 Park Ave, New York 17, N. Y.

B22 **Dust Control—Industrial Dust Control and Recovery**, new 48-page Bulletin 3000, gives technical information and data, description and specs. Illust. Dracco Corp, Harvard Ave & E 116th St, Cleveland 6, Ohio.

B23 **Scotch Boilers**—and water wall furnace extensions. Scotches from 1,000 to 30,000 sq ft of surface. Bulletins SMD-1 and WWF-1. Crotty Mfg Corp, 182-15 85th Ave, Flushing, N. Y.

B24 **Steam Generators**—20 pages on all types of Union steam generators and allied equipment, such as heat exchangers, liquid heaters. Illustrated with photos and diagrams. Catalog GB-168. Union Iron Works, Erie, Pa.

CONTROLS

C1 **Recorders and Controllers** — *Speedomax* Type G instruments for temperature, speed, power, illumination, weight, etc. 48-page catalog ND48(1) has photos, characteristics, installations. Leeds & Northrup Co, 4934 Stenton Ave, Philadelphia 44, Pa.

C2 **Boiler Water Controls**—Feeders, low water fuel cut-offs, pressure relief valves, float operated switches, solvent still regulators, etc. 24-page bulletin SC-2 gives sizes, photos, selection data, capacities. McDonnell & Miller, Inc, 3500 N Spaulding Ave, Chicago 18, Ill.

C3 **Controllers**—Model 40 in 8 basic types, for controlling temperature, pressure, flow, pH, conductivity, etc. 32-page bulletin 481 shows operation, controls, selection. Foxboro Co, 26 Neponset Ave, Foxboro, Mass.

C4 **Electronic Controller** — *Autronic* unit for controlling pressure, temperature, flow and level. 6-page bulletin A-703 gives operation, description, principle, schematic diagram. Swartwout Co, 12811 Euclid Ave, Cleveland 12, Ohio.

C5 **Plant Controls**—For open tanks and sumps in water, sewage and processing systems. *Autocon* units operate to 8 circuits in sequence or combination with a single float. 4-page bulletin 3100, photos, specifications. Automatic Control Co, St Paul 4, Minn.

C6 **Flame-failure safeguard**—8-page colorfully illustrated booklet covers "Pirotron" series FP flame failure safeguard. What it offers, how it's made, specifications and dimensions included. Bulletin CP811. Combustion Control Corp, 720 Beacon St, Boston 15, Mass.

C7 **Control Centers** — Application booklet on control centers, stresses case for centralized control systems. 31 pages, illust. Booklet B-5521. Westinghouse Electric Corp, Box 3099, Pittsburgh 30, Pa.

C8 **Pressure Regulators**—diaphragm-operated spring-opening and closing regulating valves, pressure controllers, air locks, valve positioners and selector panels. 12 pages. Bulletin S-33-CA. The Swartwout Co, 13611 Euclid Ave, Cleveland, Ohio.

C9 **Distribution and Control**—Catalog digest is abridged listing of product range. No. 125, 108 pages. Square D Co, 6060 Rivard St, Detroit 11, Mich.

C10 **Control Equipment** — General catalog of measuring and control equipment for water and sewage, power and processing industries. 28 pages. Catalog 902. Simplex Valve & Meter Co, 48th & Upland Sts, Philadelphia 43, Pa.

C11 **Temperature Measurement and Control** manual defines and distinguishes between types making easier selection of system. Bulletin 101, 24 pages. The Partlow Corp, New Hartford, N. Y.

C12 **Electric, Pneumatic Controllers** —to measure and control a multiplicity of process variables. Detailed specs, control action descriptions, ratings, 56 pages, Catalog 1650. Minneapolis-Honeywell Regulator Co, Brown Instruments Div, Sta 64, Wayne & Windrim Aves, Philadelphia 44, Pa.

C13 **Condensed Catalog**—For boiler-room water feeders, low water cut-offs, pump controls, low water alarms, pressure relief valves, temperature taps. Bulletin C-49. McDonnell & Miller, Inc, 3500 N Spaulding Ave, Chicago 18, Ill.

C14 **Circular Case Controllers**—for automatic control of temperature and pressure, with on-off or proportional control action. 16 pages, Bulletin 465. The Foxboro Co, Foxboro, Mass.

C15 **Pneumatic Controller** — Flow, level, viscosity, pressure and temperature operations; motion balance controller, 80 pages. Catalog C-60. Fischer & Porter Co, 6590 Jacksonville Rd, Hatboro, Pa.

C16 **Boiler Control** — includes combustion, feed water, boiler, steam temperature and soot blower controls. Taylor Instruments, 116 pages, Bulletin 1007. Copes-Vulcan Div, Erie 4, Pa.

ELECTRICAL EQUIPMENT

D1 **Wires and Cables**—128-page general catalog on more than 500 different wires and cables. Construction, operation, photos, specifications, technical data. U. S. Rubber Co, 271 Park Ave, Turner, Rockefeller Center, New York 20, N. Y.

D2 **Switches**—Safety, limit and interlock units for ac circuits. Snap-action. 24-page catalog 52 gives dimensions, characteristics, capacities. Micro Switch, Freeport, Ill.

D3 **Circuit Breakers** — *DB-line* arc quenching, type AU units. 4-page booklet B-5407 gives types, ratings, standard and special features. Photos, operation and selection data. Westinghouse Electric Corp, Box 3275, Pittsburgh 30, Pa.

D4 **Fan-Cooled Motors** — Standard open and explosion-proof enclosed. Tube-type, air-to-air heat exchangers; ratings from 40 hp at 600 rpm through 600 hp at 3600 rpm. 4-page bulletin 51B7149B shows construction and installations. Allis-Chalmers Mfg Co, 861 S 70th St, Milwaukee.

D5 **Electrical Maintenance**—24-page booklet B-4768 presents complete maintenance program based on renewal parts, repair service, field service. Westinghouse Electric Corp, Box 3099, Pittsburgh 30, Pa.

D6 **Large AC Motors** — Reprint of AIEE paper *Application of Large AC Motors*, by O L Cameron. 18-page booklet 1113 discusses motor characteristics, control, selection. Charts, photos. Electric Machinery Mfg Co, Minneapolis 13, Minn.

D7 **Electrical Crane Equipment**—Motors, brakes, controllers, protective panels, limit switches, current collectors. 32-page bulletin CE-1 gives photos, charts. Harnischfeger Corp, Overhead Crane Div, Milwaukee 46, Wis.

D8 **Motors**—Quick-reference bulletin A-2703, 4 pages, gives capsule digests of ac and dc motors, adjustable speed drives, electronic controls, motor sets, rotating regulators, etc. Photos, Reliance Electric & Engineering Co, 1088 Ivanhoe Rd, Cleveland 10, Ohio.

D9 **Rheostats** — complete line of power rheostats for industrial, commercial use. 24 pages. Bulletin 2500 N. Ward-Leonard Electric Co, Mount Vernon, N. Y.

D10 **Vertical Motors**—For deep well turbine pumps, 1½ to 600 hp. Fairbanks, Morse & Co, Chicago 5, Ill.

D11 **Motor-Generator Sets** — Shunt wound or compound wound, ¾ to 1,000 kw. Bulletin P-2503, 4 pages, illustrated. Reliance Electric & Engineering Co, 1088 Ivanhoe Rd, Cleveland 10, Ohio.

D12 **Lighting Specifications** — 44-page RLM spec book for 18 industrial and fluorescent industrial lighting units including high-mounting units. RLM Standards Institute, Inc, 326 W Madison St, Chicago 6, Ill.

D13 **Electrical Insulations**—32-page booklet EL-40A gives characteristics, development, advantages of insulations made from purified asbestos. Johns-Manville, 22 E 40th St, New York 16, N. Y.

D14 **Electrical Tapes**—With treated paper backing and pressure-sensitive adhesive, 8 pages. Minnesota Mining and Mfg Co, 900 Fauquier St, St. Paul 6, Minn.

D15 **Silicone Rubber Insulation** — properties and processing, plus application of silicone rubber as an insulating material. 8 pages, Bulletin CDS-218. Chemical Div, General Electric Co, Pittsfield, Mass.

D16 **Fuses** — renewable time-delay, one-time, plug and copper link fuses; fuse holders. 24 pages, Catalog 16-110. General Electric Co, Construction Materials Div, Bridgeport 2, Conn.

D17 **Automatic Voltage Stabilizers** —From 15 to 5,000 v. Photos, diagrams, operating principles, complete specifications. Booklet GEA-5764. General Electric Co, Schenectady 5, N. Y.

D18 **Mineral Insulated Wiring** — Conductors spaced, insulated with non-combustible mineral, cased in seamless metallic tube. 24-page booklet B-7. Explanation, applications, illustrated. General Cable Corp, 420 Lexington Ave, New York 17, N. Y.

D19 **Welded Plate Resistors** — For rating of 15 amps continuous without internal paralleling. 4 pages, illust. Bulletin 943-B. The Electric Controller & Mfg Co, 2700 E 79th St, Cleveland 4, Ohio.

D20 **Step Motors**—Motor and brake in one unit. 2-phase, 60-cycles, 230/460 volts, 800 to 1800 rpm, 0.5 to 8 hp, drip proof or fully enclosed. 8 pages, drawings, specs. Brown Boveri Corp, 19 Rector St, New York 6, N. Y.

MAINTENANCE SUPPLIES AND EQUIPMENT

E1 **Insulation** of rigid and flexible *Fiberglas* for exterior and interior lining of warm and cold air ducts discussed in 12-page design data booklet. Photos, efficiency data, installation sketches. AIA File 30-A. Owens-Corning Fiberglas Corp, Toledo 1, Ohio.

E2 **Hydraulic Cylinders** — 28-page bulletin 701 describes complete line, gives diagrams, photos, charts explaining mounting types and capacities up to 1500 and 3000 psi working pressure. Lindberg Engineering Co, 2443 W Hubbard St, Chicago 12, Ill.

E3 **Heat Insulation**—85% magnesia, light density type pipe and block insulation for heat ranges up to 550 to 600 F. 12-page booklet gives properties, uses, characteristics. Tables, charts, photos. Mundet Cork Corp, 7101 Tonnelle Ave, North Bergen, N. J.

E4 **Turbine Oil Reclaimer**—Removes solids, acids, moisture, and air from lubricating oil. Continuous or intermittent operation. 4-page bulletin R-275 gives features, photos. Hilliard Corp, Elmira, N. Y.

E5 **Vibrators**—Feeders, shakers, elevators, paper joggers, switches, drills, hammers, etc. 32-page catalog 535 gives photos, specifications of complete line. Syntron Co, Homer City, Pa.

E6 **Thermostatic Bimetal**—Successful applications. 28-page bulletin presents 15 cases where products are automatically controlled by bimetal, gives condensed design and engineering data. W M Chace Co, 1663 Beard Ave, Detroit 9, Mich.

E7 **Asbestos Products Reference** — Lists 800 building materials and industrial products obtained from asbestos, asphalt and magnesia. Manual gives Army, Navy, MIL, Federal, ASTM, and other specifications, plus their corresponding product. Philip Carey Mfg Co, Dept PRM, Cincinnati 15, Ohio.

E8 **General-Purpose Packing**—*Durametallic* and *Dura Plastic* spiral packings in *Handy Pack* carton meet average stuffing box requirements. 4-page bulletin 448 gives photos, installations, specifications. Durametallic Corp, 2104 Factory St, Kalamazoo 24F, Mich.

E9 **Sheet Packing** — *Corcoil* bonded cork for general service, auto, diesel, storage tank, etc, gaskets. Standard and HP grades in sheets or gaskets. 4-page bulletin gives properties, service recommendations. James Walker Packing Co, Inc, 96 Liberty St, New York 6, N. Y.

E10 **Lubrication** — June issue of *Lubrication* magazine devoted to "Electric Power—Steam Turbine Lubrication." 16 pages. Drawings, diagrams. The Texas Co, 135 E 42nd St, New York 17, N. Y.

E11 **Industrial Insulation**—For temperatures from −165 to 1800 F. 20-page catalog shows insulating cement, block, blanket, felt, pipe covering, etc. Photos, charts, applications. Baldwin-Hill Co, 1173 Dreunig Ave, Trenton, N. J.

E12 **Duct Insulation**—Thermal and acoustical qualities are claimed for *Ultralite* textile-type glass fiber insulation, heating, ventilating, and air conditioning applications. 16-page bulletin shows methods of installation, thicknesses required. Gustin-Bacon Mfg Co, 210 W 10th St, Kansas City 5, Mo.

E13 **Mechanical Packings** — Two booklets: M655SM and 1M655I. EDA presents Chesterlon 444 metallic and Chesterlon Parachute packings. Construction details, practical applications and specifications included. W Chesterton Co, 6 Ashland St, Everett 49, Mass.

E14 **Tube Expanders**—8-page folder gives catalog numbers of cutters and expanders. Anniversary folder. The Gustav Wiedeke Co, Dayton 1, Ohio

E15 **Tube Rollers** — For expanding and rolling tubes into tubesheets. Bulletin TX-50, 4 pages, illustrated. Vernon Tool Co, Ltd, 1101 Meridian Ave, Alhambra, Calif.

MATERIALS HANDLING

E16 **Resurfacer**—For patching, restoring damaged surfaces in concrete, stone, brick, etc. Over the Rough Spots. 48 pages. Stonhard Co, 1306 Spring Garden St, Philadelphia 23, Pa.

E17 **Rust Preventive**—complete instructions for surface preparation and application, also 72 color chips in general catalog. Form No. 558, 16 pages. Rust-Oleum Corp, 2799 Oakton St, Evanston, Ill.

E18 **Pipe Insulation** — new wrap around insulation for hot or cold pipe of all sizes, sub zero to 600 F, made of glass fiber. 8 pages, Bulletin 1N6.A5. Owens-Corning Fiberglas Corp, Toledo 1, Ohio.

E19 **Metallizing** — applications and characteristics in 8-page Bulletin 51A. Shows repair of crank shafts, turbine rotors and stators, blow holes in castings, pistons and cylinders, etc. Metallizing Engrg Co, 38-14 30th St, Long Island City 1, N. Y.

G1 **Conveyor Belting**—For handling bulk materials, light to heavy-duty service. 8-page bulletin shows causes of belt failure, gives belt selection data, and pictures representative belt protective equipment. Barber-Greene Co, Aurora, Ill.

G2 **Industrial Trucks**—Electric power lift trucks. Photos, drawings, specifications. Catalog 24. 16 pages. Lewis Shepard Products, Inc, Dept L-60, Watertown 72, Mass.

G3 **Bucket Elevators**—71-page Catalog 850 gives specs on standard, vertical spaced, positive discharge, vertical continuous, inclined elevators. The Jeffrey Mfg Co, Columbus 16, Ohio.

G4 **Conveyor Belting**—*Tread-Top* for carrying articles up or down 25- to 30-deg inclines. 4-page bulletin gives specifications, uses. Baldwin Belting, Inc, 76 Murray St, New York 7, N. Y.

G5 **Hydraulic Elevators**—passenger, freight and sidewalk types; engineering data and complete specs. 60 pages, Manual AIA 22. Globe Hoist Co, 8 Mermaid Lane at Queen St, Philadelphia 18, Pa.

G6 **Conveyor Scale** — for weighing, integrating, regulating the flow of materials on belt passes through scale unit. 8 pages. Bulletin 301. Sintering Machinery Corp, Sinter Ave, Netcong, N. J.

G7 **Electric industrial trucks** and transporters with capacities from 2 to 3 tons. Driver-led units. Bulletins 1003 and 1009. Automatic Transportation Co, 149 W 87th St, Chicago 20, Ill.

G8 **Gravity conveyors** with steel frame and aluminum wheels described in single page bulletin. Prices, weights, capacities, construction features included. Rapids-Standard Co, Inc, 142 Rapistan Bldg, Dept A-8, Grand Rapids 2, Mich.

G9 **Belt conveyor carriers** described in 2-page illustrated folder, Bulletin 488. Stephens-Adamson Mfg Co, Aurora, Ill.

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