

SURPLUS WAR MACHINERY

Kilns Kettles Cranes Stills

Engine Generator Sets

Two 150 KW, Harrisburg engine generator sets. Auto. platon valve, enclosed engino 18 x 16 in. 225 RPM. Milwaukes Electric gen-erator, type A-250, 600 amp. 250 volt, 8 pole, compound wound. Floer space 54 x 12 ft. Switchboard. O.

Switchboard, O. One 100 KW, D. C. belt driven generator set, 14 x 18 in. Nordberg Corliss angine. Beit wheel 10 ft. diam. 19 in. face. Double belt Richter Electric Co. generator, R.O.D. 561, 250 volt, 850 RPM, 400 Amps, pulley 15 in. diam. Bhaft centres 21 ft. 2½ in. Switch-board, 3 panels, slate.

One 300 Gal. New Dawis Water Heater, 6 ft. 4 in. x 29 in. x 226 in. perforated steel, lead lined.

Heaters-Feed Water

Locomotives—Electric

Fans

CG-399-10,000 new No. 24 galv. steel con-tainers, 7x7x46 in. high, 94 gal. or 1.3, cu. ft. each: 4 in. brass screw cap in top. Intended as air floats for rafts, N. Y.

CG-389.A-2 rotary vacuum dryers, 5 ft. diam., 15 ft. long. One made by Smith Boller Wks. Jersey City, N. J., the other by Columbiana (Ohio) Mach. Co. With friction clutch and gear wheal 6 ft. diam. each. Mo.

TP-1058-1 Devine rotary vacuum dryer, 5 ft. diam., 25 ft. long. Cylinder A. Bteam jacket, & in. steel. Center heating tube. C. I. barometric condenser No. 10. Air line separator and hor, vac. pump, belt driven. Ohio.

3-Agitating dryers, open top tanks, 5 ft. dia. 130 in, high, steam jacketed. Powerful paddle and gears.

CG-354-1 rotary klin, 6 ft. diam., 5 ft. long, 4 in. steel shell. Bennet Co., Canton, Chio, make. Driving mechanism, supports and rollers included, but no brick, rear housing o: smoke stack. Mich.

TP-1673-1 Gordon dryer, type AA, with full set enamel pans and steam trap.

TP-890-C-1 vacuum shelf dryer, J. P. Devine make, 23 chambers, 13 shelves, Barts in. spaced 2% in. Total heating sur-face 845 sq. ft. Galvanized perforated trays and copper tube condenser. Weight 17,400 lbs. N. J.

Ibs. N. J. TP-1666-A-1 vacuum shelf dryer, Buffalo Foundry & Machine Company make. Class F. 20 shelves 1 in. thick. 42242 in., spaced 2½ in. Dryer inside 47249270 in. high. Steam driven dry vacuum pump, 7251/27 in. and condenser. N. J.

New and Slightly Used---Immediate Delivery Autoclaves Nitrators Evaporators Acid Plants

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Centrifugals **Alcohol Units Distilling Units Rectifying Units**

Sulphonators **Filter Presses** Vacuum Pans **Tin Containers**

Air Compressors **Generator Sets Glass Lined Tanks Hydraulic Presses**

NEW BOILERS 4-600 H. P. NEW B. AND W. BOILERS, 200 LBS. PRESSURE, EACH BOILER 6001 SQ. FT.

HEATING SURFACE. A. S. M. E. CODE DIETRICH ARCHES AND DETROIT STOKERS.

Partial and Condensed List of Machinery

Engines

Dryers

Mixers

Motors

TP 1662-L One 34 KW 125 volt DC Gen-eral Electric Generator, 1300 RPM, 28 amps. TP 1662-K One 124 KW, 220 Volt West-inghouse DC Generator, 1250 RPM. Includes switchboard, voltmeter, ammeter and rheo-stat. TP-1671-B. One 25x49 in. Sweetland Filter Press, 157 sq. ft., 24 leaves (missing), spac-ing 2 in. 4,400 ib. One 200 KW. A. C. General Electric gen-erator. 3 phase, 60 cycle, 600 RFM, 230 volt, 550 amp. type ATB, form D, class 12-200-600. Fibre pulley 31 x 25 in, face. Blate Switch-board. N. J.

TP-1611-A. One 31x73 in. Sweetland Filter Press, 182 sq. ft., 18 leaves (12 missing), spacing 4 in. 8,600 ib. TP-1648-C. Two 3628 in. Iron Shriver Filter Presses, center feed, open delivery, 3T frames, 36 plates.

Presses-Hydraulic, Block-TP 1676 One 33 KW General Electric Gen-erator Set, DC. 240 Volt, 1050 RPM. Belt driven by 50 HP Ball and Wood engine, 325 RPM, 80 lb, pressure. 914 In. rubber belt about 38 ft. long. ing and Extrusion

TP-1640-N. Five Dehydrating Presses mfd. by E. I. du Pent De Nemours Co. 3,500 lb. pressure per sq. inch. Forms cake 16 in. diam., 3 in. thick. about 36 ft. long. NR 2006 One 200 KVA AC Gas Engine Generator set, built by A. H. Alberger Co. Crocker-Wheeler, 3 phase, 60 cycle, 2300 volt, 200 BPM. Exciter, NR 2007 One 200 KW Harrisburg engine Generator Set. Westinghouse 3 phase, 60 cycle, 2200 volts, with exciter and switch-board equipment.

ON-1722-A. Three Southwark Hydraulic Powder Dehydrating Presses, 16 in. diam. x 47 in. copper lined powder cylinder, 16 in. diam. x 55% in. steel water cylinder, complete with 2 control valves, connections, piping and fittings.

ON-1723. Four Southwark Hydraulic op-erated vertical powder Blocking Presses, each 11% in. diam. x 35 in. powder cylinder, 11% in. diam. x 36 in. water cylinder, com-plete with control valve, connecting pipe and fittings.

ON-1724. Four Southwark Hydraulic Pow-der Finishing Presses, each with 12 in-diam. x 36% in. cast steel powder cylinder, if in. diam. x 12% in. water cylinder, com-plete with connecting piping and fittings. ON-1729-B. Two 24312 in. vertical tripler, geared, hydraulic Deane pulley pumps, with steel plungers; dir. conn. to Canadian West-inghouse 50 h. p. induction motor, 8 phase, 60 cyrle, 550 volt., 580 r. p. m., 1,500 to 2,090 lb. per eq. in.

Thirty-seven Relly Marine Feed Water Heaters, 2 pass, type D, 25,000 lb. water from 80 deg. F. to 212 deg. F. with exhaust steam at 5 pounds. Made by Griscom Russell Co. Catalog BB-4.3. One 500 hp. Moffat open type feed water heater.

2,000 ib. per eq. in. CG-403-H. Three variable delivery pres-sure plunger pumps. J. Robertson Co., Brooklyn, make, beit driven. Used for slug presses up to 8,000 lb. pressure. With L p. plunger, 7 in. diam., sireks 3 to 7 in., de-livering 70 to 230 cu. in. per revolution. Three h. p. plungers, 74x4 in., 860 cu. in. water at 120 r. p. m. CG-103-1 Four plungers pressure pumpts

CG-403-I. Four plunger pressure pumps, J. Robertson Co. make. Forward water cylinder, 20xf0 in., push back cylinder, 10x 58 in. Mud chamber, 18x48 in. Floor space 4x32 ft.

4232 ft. 21 centrifugal water circulating pumps, 10 fb. double suction volute, 10 in. suction and discharge: 2.000 gallons per minute against 16 ft. total head; 300 r. p. m., 125 pounds steam pressure: direct connected to American Blower Company type A single cylinder vertical 656 in. engine. Catalogue 0341 03A1.

US Matuchen-5 20 in, centrifural circulat-ing pumps, Admiralty type, double suction, 1.000 gals, per minute against 50 ft. head, 125 lbs. steam pressure, direct connected to either of two 1129 in. Fore River type ver-tical steam enginess mfd. by Kingsford Foun-dry & Machine Co. Catalogue C7-1.

Steam Pumps. ON 1715-1 Blake-Knowles single horizontal steam pump, 3%x3%x4 in.; bronze fitted. CG 1234-1 single steam pump, steel rod, 4z8x12 in.

TP 1662-0-1 fx4zf in. Blake single type, steam driven boller feed pump.

team pump

Pumps Triplex

TP-1401-J--1 6x54x6 in. bronze lined Blake steam driven boller feed pump. ON 1712-5 3r2r3 Worthington hor, hr

DP-49. 2-Ton Brunswick Refrig. Machine, belt driven, vertical, complete with oil trap, receiver, two stands double pipe condensers. Iwo congealing tanks. Steam Turbine, Impulse type.

TP-1660-L. 3 TONS refrigeration, 2 Con-inental machines, each with 1 cyl. 44244 n. up to 425 r. p. m.; d. p. condenser 4 ipes, 12 ft. Weight, 1760 lbs. Four 8,000 HP Marine Kerr Steam Tur-bines, complete expansion head turbine with reversing element, shaft connected to one double reduction herringbone gear. 3000 RPM; propeller speed, 90 RPM.

TP-1060-K. 5 TONS refrigeration, 2 Conti-bental machines each with 2 cyts. 35535 in., up to 400 r. p. m.; d. p. condenser 4 pipes, 12 ft. Weight, 1700 ib. Stills, Water and Rectifying

TP-1659. 4-Ton York Compressor, vertical belt driven, complete with double pipe con-denser, oil separator, ammonia receiver, wrenches, leather belting, expansion piping and cork insulation. Columns

TP-1660-E-I. 6 TONS refrig. 5 Conti-nental machines, each with 1 cyl. 6x6 in., up to 300 r. p. m.; d. p. condenser, 6 pipes, 16 ft. Weight, 2750 ibs.

TP-1660-M. 6 TONS refrig., 1 Continental machine with 2 cyls. 44444, up to 425 r. p. m. d. p. condenser, 6 pipes, 16 ft. Weight 2450 ibs. TP-1632-B. 1-6 Ton Creamery Package Refrig. Machine, hor. double acting type.

TP-1080-A. 1 7-TON refrig., Vilter verti-cal belt-driven machine, 728 in, compressor, up to 160 r. p. m. Flywheel 5 ft. diam. 5 in, face. Bare machine only. Never used.

TP-306-A. One 12-Ton Vilter machine, belt driven, hor., with liquid receiver, oil trap, atmos. condenser, brine coolar. TP-1660-B-D. 12 tons refrig., two Conti-mental machines, each with 2/cyls. 6x6 in., up to 300 r. p. m.; d. p. condenser 10 pipes, 16 ft. Weight, 4960 lbs.

DP-45. One 14-Ton Remington refrig. ma-chine, belt driven, ver, twin cylinder, com-plete compression side.

CG-1250B. One in, 48 Badger Rectifying Column, 48 in. diam. x 15 ft. 6 in. bigh, with dephlegmators 35 in x 8 ft., condensers 32 in. x 8 ft. 6 in. water feed separators 18 in. x 4 in., all necessary piping, thermometers, gauge glasses, &c. Steel. TP-1662-D. One 15-Ton Wagner refrig. machine, belt driven, 2 cylinder, ver., com-plete with oil separator, double pipe con-denser, brine tank.

TP-1660-O. One 18-Ton Continental refrig. machine, belt driven, ver. compressor; d. p. condensers, receiver and oll trap.

CG-1250-D. One Badger Oll Column, con-sisting of 33 sections 6 in. x 34 in. one top section 12 in. x 34 in., one bottom section 20 in. x 24 in. and cover plate. With dephiegma-tor, condenser, water separator, gauge glasses, valves and fittings. TP-1652-A. One 20-Ton De La Vergne re-friz, machine, hor, steam driven compressor, silde value engine, condensers, liquid receiver, oil and scale separators, ammonia gauges, glasses, values and fittings. NR-2003. Fifteen Alcohol Rectifying Units, capacity 200 gal. per hr. from 50% solution to 180 proof. Steel kettles 10 ft. dia. x 24 ft. high. Copper columns 54 in. dia. x 16 ft. 6 in. high. 30 decks. Dephlegmators 375 in. dia. x 9 ft. high, containing 250 tubes. Con-densers 35 in. dia. x 9 ft. high, containing 245 tubes. With interconneoling piping to make complete units.

TP-160-N. One 25-Ton Continental belt driven, ver. compressor, two cylinder, with condensers, receiver, oil trap, foundation boits and tubes, spare suction and discharge valge, high pressure piping.

One subponating ta one solution of the soluti One sulphonating tank 1.266 gal. 6 ft. dia. 6 ft. high, % in. steel. fist bottom. Full lead lined. Gears and paddle: 500 gal. jacket half way up. No outlet. Good condi-tion.

ON-1731. One 25-Ton Canadian-Linde beit driven refrig. machine, hor., double acting. TP-1662-A. One 40-Ton York 121/18 ver. machine with Corliss Engine.

TP-1676-A.-One 45-Ton Carbondale absorp-tion machine, with generater, double pipe rectifier, 5 stands d. p. condensers, receiver, accumulator, absorber, ammonia pump, d. p. erchanger, amborber, ammonia pump, d. p. Sulphur Burners exchanger, preheater. TP-1660-P. 45 tons refrig., 2 Continental ma-chines, each with 3 cyls. 8x8 in., up to 320 r. p. m.; 3 d. p. condensers 12 pipes, 19 ft. Weight 15100 lb.

ON-1733, One 50-Ton Canadian-Linds belt driven rofrig, machine, hor, double acting, with ell trap.

DD 94 50

Tanks-Steel One 3,000 HP De Leval multi-stage Marine Steam Turbine, impulse type.

NR-2003. Fifteen alcohol rectifying units, 200 sal. 190 proof spirit from 50% solution. Steel kettles 10 ft. z 24 ft. Copper columns 54 in., 16 ft. 6 in. 30 decks. Dephesmators 37% in. diam., 9 ft. high, 260 tubes. Condensers 35 in. diam., 9 ft. high, 245 tubes. All connecting piping.

RM-1443. One 1.000 Gal. Copper Still Pot. 6 ft. 4 in. dia., 5 ft. high, plus dished ends. Copper shell 1-16 in., riveted. Flanged charg-ing hole in top 24 in. Various other open-ings. N. J.

TP-464Å. One 4-effect Hodges Pure Water Co. still, 12,000 gal. per 24 hours; 4 lb. vapor produced per lb. steam consumed. Md. TP-1673F. One Type A. 2-effect Hodges still, 75 gal. distilled water per h ur.

TP-381A. Two S-effect Griscom - Russell water stills, each for 65 tons of distilled water per 24 hours; 5 ib. water per ib. steam, CG-1218. One Scotch whiskey still, 8 ft. 4 in. dia. X 7 ft. high. With 9-section frac-tionating column 3 ft. dia., 28 ft. 6 in. high; dephegmator and condenser colls. Cast from CG-1250B. One in 48 Badger Bartifician

NT-4040-A. 12-3,000 gal. plain steel tanks, 11 ft. dia. x 5 ft. 6 in. high. NT-4040. 8 New 3,000 gal. chemical mix-ing tanks for diphenylamine, ¼ in. steel, 11 ft. dia., 5 ft. 6 in. high: fiat cover, 231 ft. of 1% in. ex. hy. steam coll; beit driven geared agitator.

NT-4041. 4-4,080 gal. steel tanks, 12 ft. NT-4028. 565-4,700 gal. steel tanks, \$ ft. dia. x 12 ft. 6 in. high.

NT-4085, 12-5,000 gal. steel tanks, 9 ft G In. high, 9 ft. 6 in. dia., flat cover, convex bottom; 14 in. ex. hy. iron pipe heating coll, 27 turns 25 in. pitch; geared agliator; 18 in. manhole and 4 in. outlets.

NT-4025-A. 6-5,030 gal. steel tanks, 9 ft. 6 in. dia. z 9 ft. 6 in. high. NT-4024, 3-5.250 gal. steel tanks, 6 ft. dis. x 24 ft. 10 in. high.

TP-1664-D. 2-5.300 gal. ver. tanks, 10 ft. dia. x 9 ft. high, 5-16-10. shell, 14 in. flat heads.

NT-4029. 4-7.520 gal. steel tanks, 8 ft. dia. x 20 ft. high.

CG-393. 8-10,000 gal. hor. steel tanks, 8 ft. dia., 27 ft. long. Circular seams; single riveted, % in. longitudal seams; double riveted, % in.

NT-4045. 2-10,028 gal. steel tanks, 12 ft. 9 in. dia., 10 ft. 6 in. high. NT-4031-2-3, 22-11,280 gal. steel tanks, 8 ft. dia., 30 ft. high.

NT-4034, 10-14,260 gal, steel tanks, 9 ft. dia., 36 ft. high.

TP-1670-A. 11-15,000 gal., new, hor. tanks, 5 ft. dis. x 40 ft. long, 5-16 in. shell, % in. dished and flanged heads.

TP-1664-B. 1-24,000 gal. yer. 10 ft. dia. x 41 ft. high, 3-16 in. shell. Beams butt strap, double riveted.

CG-241-J. 1-40,000 gal. ver. tank. 21 ft. dia. x 17 ft. high, 3-16 in. shell, 1-5 in. head.

2-45,120 gal. steel tanks, 16 ft. dia., 30 ft. high: bottom and lower 10 ft., % in. eteel: next 20 ft., 3-16 in.; cone roof, 3-16 in. steel.

CG-385. 1-84,000 gal. ver. steel tank, 27 ft. dia., 20 ft. high. GG-351. 1-215,000 gal. steel storage tank, 35 ft. dia., 30 ft. high.

CG-374. 4-372,000 gal, steel tanks, 50 ft. dia., 25 ft. 415 in. high. TP-064-C. 4-210,000 gal, or 5,000 harrel steel storage tanks, 42 ft. 6 in. dia., 20 ft. high. ver. seams, single, double and triple riveted.

1-133,594 gal. steel storage tank, 28 ft. dia. x 29 ft. high, 5-16 in. bottom, 14 in. and 3-16 in. sides; cone root, 5-16 in. steel. N. Y. TP-964-B. 1-420,000 gal. or 10,000 t rel steel storage tank, 30 ft. high, seams, single, double and triple riveted.

Tumbling Barrels

CG-403-4 roller drive iron tumbling har-rels, mfd. by Whiting Fdry. Equip. Co.; each 335 ft. long; cap. 200; 31/x15 in. car-bon electrodes.

NR-2004. Twenty-eight Glens Fails Rotary Sulphur Burners, 4 ft. dia, x 16 ft. long. Pro-vided with blunt conical ends carried on roli-ers and supporting equipment, with gearing to line shaft and chain drive to mechanical feed for hopper charging, equipped with damper and sheet fron hopper, cast iron base and mechanical feed. Alternating Current, 3 phase, 60 cycles. TP-1675-C-50K. W., 3 phase, 60 cycle, 220 volt Allis-Chalmers generator, direct conn. to a hor. multi-stage Kerr turbine, 125 lb. 2 lb. back pressure. Direct conn. exciter in-cluded

CG-822-800 K. W. 3 phase, 60 cycle, 2300 volt, G. E. generator, dir. conn. to a vert. Curtis turbine, complete with Wheeler sur-face condenser and engine driven auxiliaries.

CG-331-A-500 K. W., 3 phase, 60 cycle, 2300 volt, G. E. generator, dir. conn. to a Curtis vertical type turbine, operating at 150 lbs. condensing, against 5 lbs. press. Can be rasily changed to operate non-con-density

CG-307-A-500 K. W., 3 phase, 60 cycle, 2300 volt, G. E. generator, dir. conn. to a. Curtis turbine, operating on 175 lbs., con-densing, complete with motor driven auxil-

HG-1391-300 K. W. W. E. & Mfg. Co. 500-600 volt, gaar connected, with Westinghouse Le Blanc condenser.

CG-54-K-300 K. W. 125 volt Kerr turbine direct coun. to Allis-Chalmers generator, condensing.

CG-314-2-500 K. W. 500 volt Curtis turbs unit. Operating on 150 lbs., condensing.

One 36 in. hor. water turbine, 350 h. p. at 350 r. p. m., 44 ft. head, with governor, flume and draft tube. N. Y.

Turbine-Water Power

densing.

isries and condenser

Air Compressors

CG-13-C. 2-Sullivan Type W. A. 5 steam driven air compressors 345 cubic feet per TP-1640-A. 2-Ingersoll-Rand steam driven air compressors, 3,000 cubic feet per min. Dryers and Kilns 85 lb. pressure.

CG-9-D-1 rotary vacuum dryer, Buffalo Pdry. & Mach. Co. make, 3 ft. diam., 15 ft. long. Vacuum pump 8 x 8 in. Dust col-lector 30 in. diam., 6 ft. high. N. J.

Giving Complete List

ON-1707. 1-Canadian Ingersoll-Rand belt driven air compressor, 1053 cubic feet per min. 100 lb. pressure.

NR-2005. 4-Chicago Pneumatic Teol Co.

ateam driven all compressors, 1200 cubic feet per min. 100 lb. pressure. TP-1061-X. 1-Nordberg steam driven air compressor, 4000 cubic feet per min. 80 lb. pressure.

TP-1061-T. 1-Nordberg belt driven air compressor, 4030 cubic feet per min. 80 lb.

TP-1061-Z. 1-Sullivan steam driven air compressor, 5000 cubic feet per min. 85 lb. air pressure.

CG-378-E. 1-Ingersoll-Rand type NF-1, steam driven straight line air compressor 10" x 10" x 10", 280 cu. ft. per min. to 100 ib. Pa.

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Boilers

4-600 hp. B. & W. boilers, 200 lb. press., each boiler 6001 sq. ft. heating surface. A. S. M. E. code. Districh arches and Detroit stokers. Md.

TP-1662-G. 1-150 H. P. Erie City H. R. T. Boller, 125 lb., with shaker grates, front fittings and steel stack.

fittings and steel stack. ON-1705-A. 7--150 H. P. Locomotive type boliers with shaker grates, standard fittings, without brick settings. TP-1663-A. 1--250 HP. Eric City vertical water tube boller, 125 lb. pressure.

TP-1663-B-C. 17-100 HP. Atlas Boller Co. I. R. T. bollers, 80 lb. pressure, with Jones Inderfeed Stokers and steam dome.

TP-1662-E. 1-125 HP. Keeler Water Tube Boller, 125 ib. pressure, Keeler shaking grates.

grates. 6-150 HP, hor. ret. tub. boilers. 150 lb. pressure. With all fittings. 3 smoke stacks, 45" diameter, 9' 6" high, feed pumps. 4-302 HP. B. & W. Boilers, for 160 hs., 1284 sq. ft. heating surface each, in two batteries. Murphy stokers, feed pumps and heater. Space per two boilers, 24' 2"x 20' 2" deep, 16 feet 5% inches floor to steam outlet flange.

9-150 HP. hor. water tube bollers, 6 x 18 ft. 2 are Erie City make, 125 lbs.; 3 are Brownell, 120 lb., 4 are H. Vogt, 92 lb. CG-7-E. One tr

2-200 HP, water tube bollers, Detroit stokers, 125 lb. 2-100 HP. Triumph Co. bollers, 56" and 60" dia. 16 ft. long. 46-4" tubes each. 96 lb. One stack 4x60 feet.

TP-1652-D. 2-100 HP. Vort. hor. ret. tub. bollers, 6x18 ft., 70-4 in. tubes. 100 lb. Ky. TP-1662-G. 1-150 HP. Eric City hor. ret. tub. boller, 125 lb. Shell 78 in., 85 4-in. tubes, 15 ft. Shaking grates. 3-16 in. steel stack, 30 in. x 64 ft.

TP-1675-A. 1-302 HP. B. & W. boller, 100 Ib., drums 42 in., 20 ft. Heating surface 3021 sq. ft. Grate surface, 68 sq. ft. Perfection grates. Full front. Hariford inspected. Pa.

Centrifugals

TP-1602-G-1 Buflovak vacuum shelf dryer, size J-20. Rectangular, cast iron, 20 1 in. thick shelves, 60x80 in. Spaced 25 in. 570 sq. ft. pan surface; 60 lb. steam pressure. 111. pressure. 111. N. R.-2010-11 Ruggles Coles rotary klin pitrate dryars, dirsct gas fired. Drum 4 feet diameter, 30 feet long. % inch steel plates, 45 inch width, cast iron pedestals, hevel gears, shafting and pulleys. Capacity 2 tons nitrate of soda per hour, weight each 16,700 pounds-8 never used, 3 used one month. Va.

TP-1640-J. 2-Electric Locomotives, 36 in. gauge, capacity 8 to 10 tons, weight 3,600 ibs. each, 4 ft. wide, 5 ft. long. Complete with battery. TP-1640-K. 3-Industrial Tractors, 5 to 7 tons, 36 in. gauge, weight 2,400 ibs. Com-plete with 30 A-4 Edison cells with each locomotive. Width 37 in., length 48 in. overall. overall

CG-7-E. One triple effect Lillie evap-orator. each effect 95 3 in. fron tubes, 6 ft. long and 460 sq. ft. surface. With condenser and pumps. O. TP-1020-C. Eight Buflovak-Manilus high concentrators, Buffalo Fdry. & Mach. Co. make, 8 ft. diam., 24 ft. high. Heating ele-ment is 248 bottles in 4 rows, 4 in. diam., 5 ft. high, 1240 sq. ft. Used 3 mo. only. Md. OV-1745-A. 2-5 ton Storage Battery Locomotives, 35 in. gauge, with 40 cells MV 13 iron clad oxide storage battery. Capacity 189 anges, 80 voits, draw bar pull 800 lbs., 5.2 miles per hour.

NR-2009. 20-36 in. gauge Electric Loco-motives, height of platform 27 in., wheels 16x3 in.; length overall, 12 ft. 3 in. Battery 40 cell W.M.L., 13 Phila.; two 10 h. p. motors with double reduction gear and drum type controller. Weight 7,000 lbs. CG-308. One new copper vacuum pan, 6 ft. diam., with cataract type condenser. Outer c.1. jacket 28 in. deep. Waist 5 ft. high, of 34 in. copper A in. copper con-denser 30 in. diam., 9 ft. 6 in. high. 4 in. outer colls and 3 in. inner colls. Pa.

Mixers

TP-891. One triple effect Hoffman-Ahlers Co. evaporator, each effect 1875 sq. ft. 3 cast iron figd. shells 9 ft. diam., 14 ft. high, in 5 sections and 1 bottom section. 15 in. One centrifugal extractor, International Equip. Co. make, 16 in. tin basket. TP-1872. 3-24 in market. CG-13-O. 12-Small Day Macaroni or shoe polish mixers, capacity 60 gais., 41% in. long x 16 in. wide x 21 in. deep. Worm mix-ing device with tight and loose pulley. 2x4ing device with tight and loose pulley, 2x4 in. outlet in bottom with quick opening valve. Galvanized iron chute for unloading.

TP-1672. 3-24 in. Troy Laundry and Ma-chine Co. centrifugal wringers. Shell, basket and type C cover, of copper. Base for hor. motor. Practically new.

TP-1648-H. 1-30 in. Tolhurst centrifugal wringers, boltom drive, 75 lb. wet material per min., 18 new baskets in-cluded, 6 tops and 4 boltoms. Can. TP-1648-H. 1-30 in. Tolhurst centrifugal wringer, No. 4323, 900 r. p. m., steel basket, top drive, boltom discharge. Copper screen to be replaced.

TP-1648-B. 1-32 in. Tolhurst centrifugal, No. 4322, steel basket, top drive, bottom dis-charge, wire netting lining torn. N. J.

8-New 40x24 in. Weston type centrifugals, everdriven, copper baskets, bronze hoops, copper sides, bottom discharge. Ark,

copper sides, bottom discharge. Ark. TP-1066. 1-40 in. Tolhurst centrifugal, self balancing, casing lead lined, brazs basket 73 in. high, 18 in. deep. 850 r. p. m., basket pulley 10 in. diam., Troy steam engine and governor. Floor space 4 ft. 6 in. x 5 ft. 2 in. Weight without engine 2,700 ib. Practically N. J.

RM-1444. 4-44 in. Watson centrifugal wringers, under driven. Brake with wooden shoe, and inlet and fume outlet. No bottom outlet. Aluminum covers.

Crushers, Pulverizers, Macerators, Cutters, etc.

CG-403-A-B. Two 4 roller Raymond Bres. Co. impact CRUSHERS, 8,000 lbs. per hour each. 50% through 200 menh screen. No. 11 Raymond belted ezhaust fans, 7 ft. cyclone, 8 ft. collectors each with 96 cloth tubes, 6 in. dism., 24 ft. long.

CG-403-C. One Sturievant Mill Co. CRUSH-ER No. 163, size 1, 2,200 lb. pitch per hour. Solid frame type. N. Y.

CG-403-D. Two roll jaw CRUSHERS, B. F. Bturtevent Co. make, belt driven.

ON-1725. 1-Galv. wire powder block breaker, 3 ft. 9 in. diam. x 4 ft. No. 10 gauge wire screen, 12 in. diam. x 4 ft., cop-per cylinders. cylinders.

ON-1727. 2-DuPont std. powder macera-tors, with wire guard, connecting pipe and fittings.

ON-1728. 5-Boucher improved powder cut-ting machines and distributors.

Cars, Conveyors, Cranes, etc.

1-Complete industrial car, rails and trestle outfit, with about 1,000 feet of rails, for handling coal.

1-Robbins belt conveyor 48 ft. single dis-tance, 13 in. wide, with rollers and all parts. 1-Robbins belt conveyor for phosphate, rock and coal, 170 ft. long, 19 in. wide, with all rollers and parts rollers and parts.

1-Triple belt conveyor for phosphate, rock and coal, made by Rebbins, with 180 ft. of ralls

CG-403E-1-Belt and bucket elevator, H. W. Caldwell & Sons make, steel casing, 4x3 in. buckets, spaced 7 in. Bhaft centers 80 ft. For elevating dust from cyclone to htm.

CG-403-J-4-3 ton monorall cranes, Sprague Electric Co. make, with 12 in. I beams, each crane with two 5 h. p. d. c. motors, I-Stationary Pivot Crane made by Ortin & Steinbrenner Co., with 6x8 in. twin simple hor, slide valve angine and clam shell bucket.

i-Steam road derrick for handling coal,

hoisting engine **Fusion Pots**

TP-1672-D-1-5 ton single I beam overhead trans, overhead trolleys, 16 ft. 8 in. gauge of I beam runway, with two 3 ton plain trolleys.

Containers-Packing and Shipping

4.000 smokeless powder cases, 5 in. pine, 1215 in. x 1515 in. x 2516 in. deep. Cases lined with No. 25 galv. steel. Air tight cover, with

with No. 25 gaiv, steel. Alf tight cover, when 5 in. opening. Can. CG.318-G-80,000 5 gal. square the contain-ers, lacquered, 135 lb. plate, 24 in. cap and wire handles in top, similar to std. 5 gal. ell can. Practically new. N. J.

TP-839-A. One triple effect Taryan evap-orator, 8 coll. each effect has 40 3 in. steel tubes or 840 sq. ft. heating surface per effect. Catch-alis, piping and steel columns. Without condenser or pumps. Can. TP-519-A-B. Two triple effect Banborn sugar evaporators, 858 sq. ft. 2 in. copper tube surface each. Rated 1666 and 1040 gal per hour respectively. With barometric con-densers and pumps. Can. TP-84-E. One triple effect Ewenson TP-1068-A. 5-Werner & Pfleiderer Mix-ers, 100 gals. working capacity. Bize 15, type VI, steam jacketed, 36 in. deep z 33 in. wide x 39 in. long, 48 in. pulleys. Com-plete with driving gear and all parts.

TP-1650-P. 1-Werner & Ffleiderer Mixer, 290 gals. working capacity, type X. size 18, made of sheet iron with cast iron ends. Discharging thru two flanged openings in densers and pumps. Can. TP-046-E. One triple effect Swenson evaporator, cast iron plate. Each effect has 430 eq. ft. heating surface, 168 14 in. spel-lerized fron tubes, 6 ft. long. Crystallising pans. Jet condenser. Marsh pumps. Mass.

NR-2001. 62-Werner & Pfleiderer Univer-sal Mixers, size 15, type VI., Class BB, 100 gals. working capacity, each with double spurred gear drive. sprocket and worm tilt-ing device. Connecting pipe and fittings, cast TP-861-C. One single effect Kestner evap-orator, film type, height over all 45 ft. 10 in. Weight 10 tons. Steam belt casing has 55 2 in steel tubes, 21 ft. 34 in. long, equal to 880 sq. ft. tube surface. Blue print. N. Y. Iron covers.

CG-403-G. 2-Werner & Pfleiderer Mixers, type IX., class BB, size 16. Trough and blade steam heated. Maximum capacity 235 gais., working capacity 150 gals., beit driven. Rebuilt. One triple effect Yaryan evaporator, 16500 b. water evaporated per hour. 18 colls, complete with condenser and pumps. Ont. 1-Mixing Tank, contents 900 gais., rec-tangular, rounded bottom, 4 ft. wide, 5 ft. long, 5 ft. 4 in. at deepest point. Top drive, 12 blade agitator.

Motors, Electric

complete with condenser and pumps. Ont. One triple effect evaporator, Hoffman-Ahlers Co., Cincinnati Drg. 292, including 3 identical shells T ft. diam., 14 ft. high, bottomfs concave, top heads convex, each made in 6 flanged sections. Each effect contains 660 2 in. od. copper tubes, 5 ft. long, giving 1855 sq. ft. tube surface, ex-panded into copper interconnecting piping and five steam pumps. TP.1667. One double affect evaporator, sugar type, 'Jellineck-Wellner make, total heating surface 8000'sq. ft., made up of \$4 in. brass tubes. Complete with exception of vacuum pump. Blue print furnished. TP.663-D. One evaporating pan, 12 ft. 2-25 h. p. Westinghouse Motors, type CS., 2 phase, 60 cycle, 220 volt. 1,160 r. p. m. Overhauled.

2-30 h. p. Westinghouse Motors, type HF., 2 phase, 60 cycle, 220 volt., 365 r.p.m. Overhauled. Pa. CG-373-D. 1-60 h. p. Wagner Motor, 3 phase, 25 cycle, 440 volt., 710 r.p.m., with Cutler Hammer rheostat for starting duty TP-863-D. One evaporating pan, 12 ft. long, 7 ft. wide, 2 ft. deep, 4 in. plats, pro-vided with 2-8 in. openings in bottom. Blue print furnished.

TP-883-E. One evaporating pan. 8 ft. 6 n. long, 6 ft. 6 in. wide, 13 ft. deep, end is apered toward hottom at an angle of 45 deg., making the bottom 8 ft. long, 6 ft. 6 in. wide. CG-373-C. 3-60 h. p. Allis-Chalmers, 3 phase, 25 cycls, 440 volt., 730 r.p.m. motors, with starters and pulleys. with starters and putters. TP-1032-D. 1-75 h. p. Westinghouse type CS, 3 phase, 60 cycle, 220 volt., 870 r.p.m., with starting compensator and pulley. TP-1648-E. Two crude glycerine evapora-tors consisting of 1 cast iron body vacuum evaporator, hor. calandria has 234 145 in. o.d. by 4 ft. 5 in. copper tubes, heating sur-face 357 sq. ft. With cast iron barometrio condenser and dry vacuum pump.

CG-ST3-B, 1-100 h. D. type C Westing-house motor, 3 phase, 35 cycle, 460 volt., ST5 r.p.m., with starter, base and pulley. CG-60. 1-150 h. p., 3 phase, 60 cycle, 2,300 volt., 1,750 r.p.m., squirrel cage, complete with slide rails, compensator and pulley. CG-373-A. 200 h. p. type CCL. Westing-hour moter, 8 phase, 25 cycle, 440 volt., 480 r.p.m., complete with starter, base and

Pumps-Volute

Nitrators

condenser and dry vacuum pump. TP-1648-G. One crude glycerine evapora-tor consisting of 1 single effect vacuum evaporator, cast iron body with cone bot-tom and salting out filters, fitted with cal-andria containing 160 2 in. o.d. copper tubes 8 ft. long, giving a total heating surface of 600 sq. ft. Complete with cast iron catch-alls and steam driven wet vacuum pumps. TP-1655. Two Buflovac double effect evap-orators, hor. type, 1850 eq. ft. heating sur-face per effect, made up of 1% in. tubes. Complete with pumping equipment. Two Luills triple effect evaporators, film TP-1600-Z. One nitrator, 4616 in. diam., 5316 in. deep. inside, 116 in. cast iron. Bot-tom diahed 17 in. Never used. Sketch. Ill. TP-1601-A. One nitrator, 58 in. diam. 5516 in. deep. inside, bottom diahed 516 in. Never used. Sketch. Ill. Two Lillis triple effect evaporators, film type, each effect containing 96 2372 in, from tubes. 5 centrifugal pumps, driven by West-inghouse engine. Manistes-rotojet condenser.

inghouse engine. Manistee-rotojet condenser. CG-231. One new Badger-Weber triple effect evaporator for concentrating wool waste liquor, vertical, cast iron shells 18 in. dia., 19 ft. high, copper tubes, 114 in. and 2 in. Weirs jet condenser, 5 x 12 x 12 Blake-Knowles vacuum pump. CG-403-F. One No. 10 Raymond Bros. Co., Chicago, exhaust fan, 22 in. outlet, 36 x 15 in. spider. Never used. Skotch. III. TP-588-C. Two 500 gal, nitrators. 4 ft. diam., 5 ft. 6 in. deep. tneide: Hercules Eng. Corp. Std. make. Hercules agitator, ribbed cooling tubes. Weight, 13,000 ibs. each. Nitrator bulletin. O.

TP-1600-M. One 600 gal. Buflowac nitra-tor, 5 ft. diam., 6 ff. deep, 3 agitating shaftar in sides. Cooled by 10 brins tubes, bottom discharge. Used 6 mo. III. TP-1600-Y. One 800 gal. Buflovao nitrator, it. diam., 6 ft. deep. C. L cooling jacket. No cooling fingers. Belted agitator in con-er, 2 propellers. Bottom discharge, Ill.

TP 1640-Q One No. 8 Blackburn Smith Twin Feed Water Filter. Complete with ac-cessories. Capacity 300,000 lb. water per br. Working pressure 200 lb. per sq. inch.

Oil Engines

Filter-feed water

Generators, Electric

volts, 6 horse power.

U. S. Erie. One pair Marine Diesel Olt Engines, McIntosh & Beymour, 6 avlinder vertical, single acting direct, reversible, 6 cycle trunk, piston type. 22 in. z 32 in. 760 brake home power at 150 r. p. m. En-gines are right and left hand, intended for driving twin screws. Four 6 ft. fusion pots, Clark make, cast ron, special bottoms, steel covers. Pa. From, special bottoms, steel covers. Pa. CG 1214 Seven C. I. Fusion Pets, Buffalo Foundry Machine Co. make. Capacity 8 cubic feet per revolution. D ft. 9 in. inside diameter $x \in ft. 8$ in. inside depth. Oil lines, boiler fittings, cleaning doors and supports and stays for brick work.

driving twin screws. TP-268-E. Two 225 b. h. p. American Busch-Sulser Discel Oil engines, 3 cyl. vert., 16x24 in., 105 r. p. m., with Dodge 200 h. p. friction clutch pulley, 45x26 in. facs, fiy-wheel 8 ft. x 16 in. facs. Burn 13 gal. cil per hour. In good operative condition. N. Y. CG-274. One new 500 b. h. p. Discel Oil engine, Southwalk Fdry. & Mach. Co. make, 4 cyls. 16x28 in., 180 r. p. m., quick start-ing. Auxiliary equipment included. Fa.

ON-1745-B One Electric Products Co. Charging Motor-Generator, Type D-40, 88/100 d. c. yolts, 60/125 current amps., 550 A. C.

DP-26-50. Four 5814-Ton Frick steam fiven refrig. machines, ver., direct connected Corliss steam engine, with oil trap and mmonia receiver. Tanks—Steel Weigh fitted steam driven boiler feed pumps CG 1238-1 2x2%x3 in. Worthington duplex ON 1714-1 3x2%x3 in. Worthington duplex

TP-1061-A. Two 65-Ton Great Lakes refrig. machines, hor., steam driven, with Corliss condensing engine.

condensing engine. TP-1652-B. One 70-Ton Arctic machine (40 cons lee making capacity), two ver. single scting compressors 10280 ins., driven by 22230 in. Corliss engine. 3 atmos. condensers, 20 pipes, 20 feet long. Accessories. TP-1662-T. One Deming triplex power punip, belt driven 6x8 in., 125 gal. per min. TP-1640-C. Four Aldrich triplex power pumps, 9x12 in., 500 gal. per min., without meters. For 150 ft. head 40 h. p. meter required. NR-2002. Three 150-Ton Carbondale Ex-haust steam refrig. machines, complete with absorber, condensers and all parts to make up complete refrig. unit; brine cooler and

TP-1662-8. One Deming triplex power pump, 5x6 in., 60 gal. per min. agua pump TP-1640-D. Forty-two 1x4 in. Deane tri-plex hydraulic pumps, belt driven, 8.14 GPM, 2,450 ib. pressure.

aqua pump: Two 150-Ton Bail refrig. machines, 164x42 in. hor. d. a. compressors, dir. conn. to 24x42 in. Corlise engines. Flywheels 14 ft. diam., 20,000 lb. Tangye frames. TP-1654-E. Two 200-Ton De La Vergne compound steam driven, hor. refrig. ma-chines, complete with 2 ammonia receivers, oil and Scale separators, gauges, fittings and connections. Automatic lubrication system. BM.1602 250.705 York compressor steam TP-1640-E. Three 14x8 in triplex pumps, made by Worthington Deans Pump Company, 8.65 GPM, 4,500 lb. pressure. Belt driven. TP-1640-C. Four 6x12 in. triplex power pumps, made by the Aldrich Pump Co., 500 GPM water against 150 ft. head, without PM-1600, 250-Ton York compressor; steam riven, ver. single acting, with hor. Corliss ompound engine.

ON-1729-B. Two 24x12 In. vertical Deane TP-1007-A. 340-Ton Vilter hor. refrig. ma-chine, two compressors, double acting, 19236 in.; Corlisa cross compound engine Sixt8x36 in. Flywheel 16 ft. diam., barometric steam hydraulic pulley pumps direct connected to Canadian Westinghouse 150 h. p. induction motor, 350 RPM, 8 phase, 60 cycle, 550 volt, 1,300-2,000 lb. pressure per sq. inch.

denser, vacuum pumps.

Two Alberger dry vacuum plumps, 6x14x 10 in. Retorts

ON-1706-A. Twelve Bufforak C. I. Nitric Beterts with covers. Capacity 6000 lb. ni-trate of soda charge.

ON-1706-B. Ten New Buflovak C. I. Ni-tric Retorts with covers. Capacity 6000 lb. nitrate of soda charge.

Smoke Stacks

TP-1645-L. One rotary vacuum pump made by Nash Engineering Co., 3 in. inist and outlet. Belt driven. 550 RPM. 54 to 90 cu. ft. TP-1645-N. One 2 in. rotary Nash vacuum pump. 2 in. inist and outlet. 54 to 90 cu. ft. belted, 550 RPM. TP-1662-Q One Smoke stack, 20 in. dia. x 64 ft. high, 3-16 in. steel, with breeching. TP-1652-E. One Smoke stack, 40 in. dia., 70 ft. high, 1-16 in. steel, with breeching guys and damper. CC-1227. One Szl6x16x12 Alberger dry vacuum pump, capacity 295 cu. ft, 100 to 110 RPM.

CC-1228. Two 9x16x12 Blake-Knowles wet vacuum pumps. Steam Engines

TP 1061-BB One 5 HP center crank ver. steam engine, with Gardner type Governor. TP 1662-H One 30 HP Hooven-Owens-Rentechier Corlias engine, 10 in. x 30 in. fly-wheel 7 ft. 6 in. diameter, 13 in. face; 5 ft. diameter belt pulley, complete with imme-diate flittings, including a canvas belt. TP 1061-A4 One 35 HP Sell contra crack

TP 1961-AA One 35 HP Ball centre crank automatic Governor steam engine. 48 in. flywheels, 36 in. pulley.

TP 1648-M One 100 HP steam engine, Taylor Mfg. Co., simple slide valve, double acting, 12x16 in., 150 RPM, with automatic governor and 36 in. x 18 in. face pulley. Fly-wheel 5 ft. 8 in. x 13 in.

450 hp. Watta-Campbell Corliss engine, 24 x 56 in., 70 rpm., 100 lb. Tangye frame L.H., single eccentric. Belt wheel 20 ft. diam., 46 in. face. Floor space 15 ft. 0 x 36 ft. 6 in. 10 in. Bulkely condenser. N.Y.

MAKING) MACHINES. 300 hp. Watte-Campbell Corliss engine, 20 x 48 in., 80 rpm., 160 lb. belt wheel 16 ft. diam. 28 in. face. 10 in. Bulkely condenser. N.Y. Mostly new machines, ready for immediate delivery. Those built by Continental Ma-chine & Foundry Co., Fort Madison, Iowa, have vertical uniflow safety ammonia Com-preseors with light ring valves, self tighten-ing stuffing box, turned cross-head and chosed crank case. Each Continental ma-chine is equipped with necessary oil trap, double pipe condenser and liquid receiver. Ratings based on 15 lbs suction pressure and 185 lb. condenser pressure.

GG-807-B-400 K. W., 3 phase, 60 cycls, 2300 volt, 3600 r. p. m., Westinghouse gen-etator, direct conn. to Parsons turbine, 150 16s. pressure, condeneing. Either surface or jet condenser, with motor driven auxiliaries furnished. ON-1753-2 weigh tanks, E. & T. Fairbanks Co. scales, capacity about 37,500 lb. or 4,500 gal. water. Tanks 9 ft. 9 lb. 1. d. x 7 ft. 114 jb. high: cylindrical; with bottomed and domed head; all of % in. plate; with agitators and pulleys; supported on chan-uses and 1-beams. CG-248-C-500 K. W. G. E. generator, 3 phase, 60 cycle, 2300 volt, direct conn. to a vertical type Curtis turbine, operating on 150 lbs., 150 deg. F. superheat, condensing.

tion. CG-1217-A. One Cast Iron Sulphonator, 7 ft. dia. $x \oplus$ ft. deep, 3 in. thickness, with heavy cast iron cover. Sheet steel jacket up to 20 in. from top of kettle. Agitator, gwaring and connections.

Lined or Enameled Steel TP-1665-B-1-103 bbl. ver. tank, 8 ft., l. d., 10 ft. high.

TP-1665-C-13-108 bbl. ver. tanks, D ft. 1. d., 10 ft. 6 in. high over all.

TP-1664-G-12-114 bbl. ver. tanks, 10 ft. dia. z 6 ft. high.

TP-1665-D-10-160 bbl. ver. tanks. 8 ft. 1. d., 14 ft. 6 in. high over all. TP-1664-F-11-122 bbl. ver. tanks, 9ft. dla., 8 ft. high.

CG-400-1,000 K. W., A. C., Turbo-gen-erator set, Westinghouse Parsons multi-stage reaction uype, 3 phase, 25 cMales, 6600 volt, 1500 r. p. m., condensing. No auxiliaries. TP-1664-A-10-227 bbl. ver. tanks, 10 ft. dia., 12 ft. high.

dia., 12 ft. high. TP-1133-M-30-273 bbl., ver. tanks, 9 ft. 6 in. x 16 ft. high inside, 17 ft. 6 in. high erected; ¼ and 5-16 in. steel; guaranteed 15 bb. pressure: 2-48 in., 2-42 in. rings; dished heads. St. L.

TP-1608-A-25 K. W., 125 volt D. C. Crocker-Wheeler generator, direct conn. to De Laval non-condensing steam turbine, 100 Ibs. press., 1,500 T. p. m. TP-1665-5-375 bbl. ver. Pfaudler tanks, 10 ft. dia., height 20 ft. inside, 22 ft. between dished ends; height over all erected 25 ft.; 5 rings 48 in. each; equipped with stirring device mfd. by Ott, Phila. 108. press., 1,000 T. p. m. CG-287-100 K. W., 125 volt Curtis turbine, with Le Blanc jet condenser. CG-3-E-200 K. W., 250 volt Curtis turbine, grar connected, non-condensing. TP-887-A-200 K. W. 125-250 volt Terry turbine, direct conn. to 2-100 K. W. Crocker-Wheeler generators, with Worthington sur-face condenser, pumps and spray pond. No switchboard equipment.

TP-1133-3-690 bbl. hor. tanks, 10x30 ft., 12-30 in. rings; dished heads. St. L.

TP-1133-G-6-753 bbl. hor. tanks, 7 ft. In-side dia., 82 ft. between dished heads; 32-30 in. rings, 14 and 5-16 in. steel; guaranteed 18 lbs. pressure. St. L.

TP-1133-H-1-780 bbl. hor. tank. 10x42 ft. '4 and 3-10 in. steel: guaranteed 15 lb. pres-sure: 10-42 in. 1-36 in. 1-30 in. rings. St. L. TP-1133-I-26-830 bbl. hor. tanks. 10 ft. in-side dia. x 44 ft. long: 17-30 in. rings. '4 and 5-16 in. steel: guaranteed 18 lbs. pressure. St. L.

TP-1133-J-60-857 bbl. hor. tanks. 10x45 ft., $\underline{4}$ and 5-16 in. steel; guaranteed 18 lb. pressure; 11-42 in., 1-56 in., 1-30 in. rings; dished heads. St. L.

Tanks-Wood

NT-4071-30-6,000 gal, wood tanks, 8 ft. Ma., 16 ft. high. NT-4077--0-7,100 gal. wood storage tanks, 10 ft. dia., 12 ft. high; open top; 3 tanks used, 2 never assembled.

Lot 1260-129-11.900 gal. pine tanks, staves 2% in.; never assembled.

Lot 1201-8-17,860 gal. pine tanks, 13 ft. dia., 18 ft. high, 2% in. staves; never an-sembled.

NT-4081-72-17,860 gal. wood tanks, 13 ft. dia., 18 ft. high. NT-4081-A-7-17,860 gal. powder washing tanks, 13 ft. dia., 15 ft. high, staves 3 in. yellow pine: hinged cover, false bottom, 6 in. water outlets., 10 in. powder outlet, with plug valve and rod.

NT-4065-36-21,144 gal. wood tanks, 15 ft. dia., 16 ft. high.

Fume and draft tube. N. Y.
Also Carbonating Towers, Concentrating Units, Drying and Japanning Ovens, Freight Elevators, Exhausters, Exhaust Fans, Glycerine Refining Plant, Hoists, Ketlies, Mils, Pile Drivers, Pipe Threading Machines, Pumps, Refrigeration Accessories, Brine Tank Cooling System, Ice Factory Equip-ment, 20 Ton Raw Water Pressing System, Ice Plant Steam Condenser, Bolvent Recovery Units, Wood Tanks, Ties, Trays, Direct Cur-rent Generators, etc.

Also

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TECHNICAL PRODUCTS COMPANY, Inc. 501 Fifth Avenue, New York Chicago

TP-1681-J. 1-1 ton Brunswick belt driven vertical refrig. machine, with one stand double pipe condenser, liquid receiver, oll and ecale separators and ammonia gauges, also ice box. TP-1660-J. 14 TONS refrig. capacity, 2 Continental machines, each with 1 cyl. 34x34 m. up to 400 r. p. m.; d. p. condenser, 4 pipes, 5 ft. Weight, 1400 lbs.

1-New, & ten, ammonia refrig. machine, vertical, 223% in. single acting compressor, 200 r. p. m., beit con. to % H.P. Westinghouse motor, A. C. 110 V. 1720 r. p. m., single phase condanser and colls. N. J.

ON-1716. One Alberger hor. twin turbine pump, 4 in. suction and discharge, 460 GPM, direct corn. to 150 h. p. Canadian GE in-duction motor, 3 phase, 60 cycle, 550 volt, 1,800 RPM. Complete with starter, relay fuses, wiring, etc. One DeLaval steam turbo pump, 3-stage, type 200 TC, 125-175 lbs. steam pressure; 1,800 RPM. Hor. 3-stage impeller, 100 GPM against 520 ft. head. O.

One Elake-Knowles simplex steam pump, 10x12x12. Pa.

CG-359-C. One Deans vacuum pump, steam driven, 12x16x18 in.

One Terry steam turbo pump, type C, 170 lbs. steam pressure; 1,900 RPM. Worthing-ton her. single stage impeller pump, 3,500 GPM; 14 in. suction, 12 in. dischargs. O.

Refrigerating Machinery