

Separation Engineering Waste Concentrator (GE New Philadelphia)

QTY	Type	Part #	Description	Vendor	Notes
2	Pump	Goulds NPE 1ST1E5D4	Centrifugal pump, 316 SS, 3450 RPM, 1 HP, 208-230/460 VAC 3 phase motor, SF = 1.0 25 GPM @ 95 TDH, 4-3/4" dia. Impeller, carbon/silcarbide/Viton mechanical seal and casing O-ring	Pumping Solution	
2	Pump	Tonka-Flo Model AS4014G P/N 1123729	Cinrifugal pump, 316 SS, 3450 RPM, close-coupled to 5 HP, 208-230/460 VAC 3 phase motor, standard elastomer	GE	
2	Pump	Tonka-Flo Model AS4042D P/N 1123735	Centrifugal pump, 316 SS, 3450 RPM, close-coupled to 15 HP, 208-230/460 VAC 3 phase motor, 215TC frame, standard elastomer	GE	
2	Motor	Leeson 174293	VFD 460 om/out 3 phase, 15 HP	Leeson	
2	Pump	Tonka-Flo Model AS4042D P/N BK999999	Centrifugal pump, 316 SS, 3450 RPM, close-coupled tp 15 HP, 208-230/460 VAC 3 phase motor, 215TC frame standard elastomer, with balanced seal for up 650 psi suction pressure	GE	
2	Pump	Grundfos DMS2 11-A-PP/V/C-F- 21 RRB	Chemical pump, 3/8" suction 1/4 discharge, pp head and fittings, viton elastomers, 110 VAC 0/4-20 mA external control, front fitted control panel, .5 GPH @ 160 psi max	Barrett Pump	
2	Pump	Grundfos 96479898	Chemical pump, 3/8" suction 1/4 discharge installation kit	Barrett Pump	
2	Terminal	Grundfos 96440449	Plug Terminal w/o cable for external control	Barrett Pump	
8	Housing	SEI DWG 13347 & DWG 13347	8" Membrane housing, 3 element long, 316 SS construction, 2" feed/concentrate side entry, 1" MPT permeate connection, feed/conc Port Location opposing each other, Grulok 7004HPR clamp closure with EPDM gasket, with thrust sleeve, elementspacer and 316 SS permeate adaptor, with SS thrust sleeve	SEI	

16	Cap	SEI DWG # 13338	8" SS end cap, 1" FPT Permeate connection	SEI	
24	Membrane Elements	GE Osmonics	8" membrane elements	by others	
2	Tank	Chemtainer TC-	200 Gallons PE conical bottom tank and stand	Chemtainer	
2	Tank	Chemtainer TA-	125 Gallons PE horizontal bulk storage tank	Chemtainer	
2	Housing	Osmonics HX0720-2V-316-A P/N 1148154	Cartridge filter housing, 2" Victaulic connection, 316 SS construction, hold 7-20 cartridge, 1/2" MPT drain, 1/4 FPT, Pressure and Vent ports	GE	
2	Housing	FSI X100-B	Bag Filter housing, PP construction, 2" FPT Connection	FSI	
2	Filter	FSI BPONGX25	Bag filter PP felt 25 micron rating	FSI	
4	Switch	Barsdale E1H-H90-P6-PLS-T	Pressure switch, polysulfone body, teflon diaphragm 1/2" MPT electrical connection, 1/8" FPT x 1/2" MPT process connection, UL and SCA listed, SPDT snap action, 10 Amp 125-250 VAC Range 3-82 PSI	FLW	
2	Switch	SOR 9NN-K45-N7_C1A	Pressure switch, 316 SS body, EPR seal, teflon coated polyimide diaphragm 3/4" FPT electrical connection, 1/4" FPT process connection, UL and CSA listed, SPDT snap action, 15 Amp 250 VAC Range 200-1750 PSI, set at 980 psi	CFM	
2	Transmitter	Endress Hauser PMC41-RC21F4A11N1	Pressure/Level transmitter, ceraphire diaphragm, 6 psi range, 4-20 mA output, w/o display, 316 SS wetted with Viton seals, calibrate inches/ft H2O	Endress Hauser	
2	Transmitter	Thornton 58-001-303	pH transmitter, 110 VAC power, w/4 relay contact, 2 ea 4-20 mA output, nema 4x enclosure, 1/4 DIN panel mounting	FLW	
2	Electrode	Mettler Toledo	pH glass electrode, range 0-14 pH	FLW	
2	Holder	Mettler Toledo 53-300-021	pH electrode holder, CPVC, 3/4" MPT for insertion or submersion	FLW	
2	Cable	Mettler Toledo 52-300-110	pH VP cable, 33 ft long	FLW	
2	Transmitter	Thornton 58-001-304	Conductivity transmitter, dual channel, 110 VAC power, w/6 relay contact, 4 ea 4-20 mA output, nema 4x enclosure, 1/4 DIN panel mounting	FLW	

4	Sensor	Thornton 244-631	Conductivity sensor, 4-E electrode, 1" MPT connection, 316 SS electrode, CPVC insulator and body range 10-650000 μ S, VP Connector	FLW	
4	Sensor	Thornton 58-	Conductivity Sensor cable 25 ft long VP connector	FLW	
2	Meter	King	flow meter all 316 SS, 1" FPT connection, range 0-25 GPM	Harrington	
2	Meter	King	Flow meter all 316 SS, 1 1/2" FPT connection, range 0-35 GPM	Harrington	
2	Meter	King	flow meter all 316 SS, 1" FPT connection, range 0-16.5 GPM	Harrington	
2	Gauge	Ashcroft 25-1009-SWL-02B-XUC 100psi	Pressure Gauge, 2 1/2" dial, 316 SS tube & stem, glycerine filled, 1/4" MPT center back connection, w/U-clamp for panel mount range 0-100 psi	Scaler	
2	Gauge	Ashcroft 25-1009-SWL-02B-XUC 200 psi	Pressure Gauge, 2 1/2" dial, 316 SS tube & stem , glycerine filled, 1/4" MPT center back connection, w/U-clamp for panel mount range 0-200 psi	Scaler	
2	Gauge	Ashcroft 25-1009-SWL-02B-XUC 1500 psi	Pressure gauge, 2 1/2" dial, 316 SS tube and stem, glycerine filled, 1/4" MPT center back connection w/U-clamp for panel mount, range 0-1500 psi	Scaler	
2	Gauge	Ashcroft 25-	Pressure gauge, 2 1/2" dial, 316 SS tube and stem, glycerine	Scaler	
10	Valve	Hayward TB1150ST+C15 DA & DWG 13349	1 1/2" 3 piece PVC true union ball valve, SOC connection, teflon seats, viton sea;s. with compact spring return pneumatic actuator # C15DA and SEI maounting hardware DWG # 1339	Compact	
2	Valve	Hayward CV1200ST	2" 3 piece V-port PVC true union ball valve, SOC connection, teflon seats, viton seals	Ewing	
4	Valve	Hayward	2" 3 piece PVC ball valve, SOC connection, Viton	Ewing	
8	Valve	Hayward	3/4" 3 piece PVC ball valve, SOC connection, Viton seals	Ewing	
4	Valve	Hayward	1/2" 3 piece PVC ball valve, SOC connection, Viton seals	Ewing	
2	Valve	Flow-Tek	1/2" 1 piece 316 SS ball valve, threaded connection	Bray Sales	
4	Valve	Flow-Tek	1/4" 1 piece 316 SS ball valve, threaded connection	Bray Sales	
2	Valve	Compact II	1/2" 3 piece 316 ball valve, SW connection, 1000 WOG with	Compact	
4	Valve	Whitey SS-18RS8-A	1/2" concentrate control valve, 316 SS, body 1/2" Swaglok connections, .375" orifice, Cv=1.8, regulating stem, panel mount, angle pattern	SD Fluid Systems	
4	Valve	Whitey SS-43GS4	1/4 3-way ball valve, panel mount, swagelok connection	SD Fluid Systems	

2	Valve	Whitey SS-43ZF2	1/8" 5 way ball valve, panel mount, Swagelok connection	SD Fluid Systems	
8	Valve	GF 192.304.008	1" Y-Pattern check valve, PVC, spigot ends, Viton seals	Pen Valve	
4	Valve	GF 192.304.010	1 1/2" Y-Check valve, PVC, spigot ends, Viton seals	Pen Valve	
4	Valve	Sharp	1 1/2" 3 piece construction ball valve, 316 SS, 1000 psi WOG 2 ea. Socket weld and 2 ea. Threaded connection	Mc Master 4632K91	
12	Valve	MAC 45A-L00-	4-way solenoid valves 110 VAC coil, CSA approved, manifold	Provoast	
2	Housing	Haffman A-48H3612GQRL P	FRP enclosure, NEMA 4X 48" x 36" x 12"	B&K	
2	Housing	Hoffman A-	Steel panel for above enclosure	B&K	
4	Motor	Telemecanique	Motor Starter base, 12 amp rated, 115 VAC coil	B&K	
4	Motor	Telemecanique	Motor starter base 32 Amp rated, 115 VAC coil	B&K	
2	Overload Module	Telemecanique LUCA05-FU	Over load module, range 1.25-5 A	B&K	
2	Overload Module	Telemecanique LUCA18-FU	Over Load module, range 4.5-18A	B&K	
4	Overload Module	Telemecanique LUCA32-FU	Over load module, range 8-32 A	B&K	
4	Fuse	Little Fuse CCMR 1 1/2	Midget fuse, 600 VAC rated, time delay, rejection type 1 1/2 Amp	B&K	
2	Fuse	Little Fuse FLM 3 1/2	Midget Fuse, 600 VAC rated, time delay, non-rejection tupe 3 1/2 Amp	B&K	
2	Transformer	Square D 9070-TF300D1	Transformer, 480/240-120 VAC, 300 VA w/top mount fuse block	B&K	
2	Disconnect	Square D	60 Amp 3 pole disconnect	B&K	
2	Disconnect	Square D	60 Amp disconnect handle black NEMA 4X	B&K	
2	Disconnect Shaft	Square D GS1AE2	60 Amp disconnecting shaft, 10 mm x 10 mm x 12.6" long	B&K	
2	GFI	Leviton 7599-PW	Ground fault interrupter, 15 A, CSA approved	HD	
2	Switch	Square D 9001-SKS11B	2 position selector switch, non-illuminated, 30 mm. corrosion resistant, cam E, with KA2 contact block	B&K	

2	Button	Square D 9001-SKR9R	Push button, maintained, illuminated LED RED 120 VAC, 30 mm, corrosion resistant, with KA 3 contact block	B&K	
2	Pilot Light	Square D 9001-SKP38LW31	Pilot light WHITE LED 120 VAC 30 mm, corrosion resistant	B&K	
2	Pilot Light	Square D 9001-	Pilot light RED LED 120 VAC 30 mm, corrosion resistant	B&K	
2	Controller	GE IC200UAL006	Programmable logic controller, 23 pt, (13) 24 VDC input, (9) relay output, (1) 24 VDC output, (2) analog input, (1) analog output, 110 VAC power	GEXPRO	
2	Controller	GE IC200UEX211	Programmable logic controller relay expansion card	GEXPRO	
2	Controller Panel	GE IC754VSI06MT	Operator interface panel 6" mono touch screen VDC power, 32 MB DRAM 10/100 LAN	GEXPRO	
2	Power Supply	Omron S82K-01524	24 volt power supply, 15W, DIN rail mount	Mouser 653-S83K-01524	
2	Fuse	Phoenix	Fuse Holder, 6 amp max, 110-230 volt	Steven Eng.	
4	Fuse	Phoenix	Fuse holder, 6 amp max, 15-30 volt	Steven Eng.	
1	Fuse	Bussman GMA-200mA	5mm x 20mm fast acting glass fuse 200 mA	Mouser 504-GMA-2/10	
1	Fuse	Bussman GMA-1/2	5mm x 20mm fast acting glass fuse 500 mA	Mouser 504-GMA-1/2	
1	Fuse	Bussman GMA-3/4	5mm x 20mm fast acting glass fuse 3/4 Amp.	Mouser 504-GMA-3/4	
1	Alarm	Sonalert SC100N	Alarm buzzer, 30 mm, non-metallix, 120 VAC power	Mouser 539-SC110N	

