

# SODIUM CHLORATE PLANT—EQUIPMENT FOR SALE

## AVAILABLE AS COMPLETE PLANT OR EQUIPMENT

### CENTRIFUGES

- 2246 11" Diameter Baker Perkins 316 SS S-11 Pusher Type Centrifuge.
- 2303 13.5" Diameter Baker Perkins Titanium Single Stage Pusher Centrifuge. Rebuilt 1992 (by Baker Perkins)

**We also have 8", 10", 18" and 21" S/S Pusher centrifuges from other liquidations**

### CRYSTALLIZERS/EVAPORATORS

- 2300 14,000 TPY Titanium Crystallization System, Mfg. by Swenson / Astro Metallurgical, single effect draft tube baffle type. Rated FV @ 100°F.
- 2250 Approx. 2000 Gallon Nadler Inc. Titanium Evaporator Body. Rated for 15 psi @ 248°F. Built 1994.

### AMMONIUM PERCHLORATE PLANT LIQUIDATION!

#### CALCINER

2313 48" (4') dia. x 40' long Rotary Calciner with Hastelloy C-276

#### DRYER—ROTARY

2314 Approx. 7' diameter x 36' long horizontal 316 Stainless Steel Standard Steel Corp rotary dryer

#### REACTOR

2316 Reglassed and Unused 1000 Gallon Pfaudler Glass Lined Reactor Body.

#### FILTER PRESS—PLATE & FRAME

2305 100 Sq. Ft. Perrin Polypropylene Plates, Plate & Frame Filter Press. 17 plates

### ELECTROLYSIS CELLS & RECTIFIER

- 2329 Sodium Chlorate Electrolysis Cells and Reactor System: (8) titanium reactors each with 3 Krebs NC 30 electrolysis cells with all interconnecting piping, buss bar and structural steel supports.
- 2328 Toshiba Rectifier-460 V, three phase, 60 hz transformer with 250 A DC output at up to 80 volts. Also (1) Thyristoformer – Polarization Rectifier

### DRYERS—FLUID BED

- 2304 Approx. 6 Sq. Ft. Sulzer Chemtech Fluid Bed Dryer system. Type FTF 60/500, 316L Stainless Steel. Design pressure of 0.7 psi @ 600 Deg. F.

### FILTERS

- 2247 160 Sq. Ft. Vertical Dr. M - Fundabac (Germany) filter for dry and slurry discharge. Type R 15-36-1650/T140. Rated 90 psi @ 140 F. Year Built 1994.
- 2306 150 Sq. Ft. US Filter Brine Filter. Model # 44VJ-36-150F DCD, Type Verti-Jet with swing bolt door design, Year Built 1988.
- 2248 118 Sq. Ft. Vertical Dr. M - Fundabac (Germany) filter for dry and slurry discharge. Type R 11-26-1650/T140. Rated 90 psi @ 140 F. Year Built 1994
- 2307 28.2 Sq. Ft. Komline Sanderson 316 Stainless Steel (Contact Parts) Rotary Vacuum Filter.
- 2529 Titanium Basket Filter.

### HEAT EXCHANGERS—TITANIUM

- 16024 1,320 sq. ft. Wyatt Industries Shell and Tube Heat Exchanger. 150/75 psi
- 2145 1,110 Sq. Ft. Alaskan Copper Works Titanium Shell & Tube Heat Exchanger. 150/150 psi
- 2249 462 Sq. Ft. Astro Metallurgical Titanium Shell and Tube Exchanger. 100/100 PSI. Built 1994.
- 2252 449 Sq. Ft. Monticello Tank, Vertical Titanium Shell and Tube Exchanger. 160/25 PSI. Built 1993.
- 2253 317 Sq. Ft. Astro Metallurgical Horizontal Shell & Tube Exchanger. 150/75 PSI. Built 1994.
- 2310 294.7 Sq. Ft. Tranter Inc (Texas Division) Titanium Plate Heat Exchanger. 100 psi Built 1989.
- 2254 216 Sq. Ft. Monticello Tank Horizontal Titanium Exchanger. 170/116 PSI. Built 1993.
- 2444 119 Sq. Ft. Graham Mfg. Plate Titanium Heat Exchanger. 100 psi. Built 1994.
- 2534 18 Sq. Ft. Monticello Tank Company Titanium Shell & Tube Heat Exchanger, 75/150 psi. Built 1994.

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### PUMPS

- 2259 4000 GPM @ 68' TDH Durco Mark III Alloy D4 Centrifugal Pump.
- 2266 1750 CFM steel Nash Compressor (Vacuum Pump), size H9.
- 2251 1541 GPM @ 10TDH Goulds Titanium Circulating Axial Flow Pump.
- 2630 30 HP Titanium Labour Pump, 4 x 3 (Qt. 2)

See our website ([www.phxequip.com](http://www.phxequip.com)) for smaller titanium centrifugal pumps

### SCRUBBERS

- 2308 Complete Hydrogen Scrubber System for a 14,000 TPY Sodium Chlorate Plant. Consisting of 1st and 2nd stage hydrogen scrubbers, circulating pumps, plate heat exchanger, Nash vacuum pump, piping and instrumentation.
- 2301 24" diameter x 8' high Cosmos Material Corporation Titanium Grade 2 Vertical Vent Scrubber.

### SILO

- 2319 3,200 Cubic Feet Carbon Steel Salt Silo. Approx. 9' diameter x 50' high with 10' skirt. Complete with salt elevator, slat blower and baghouse. Year Built

### **CHLORINE (MEMBRANE CELLS) 25 TPD PLANT**

Built in 1987 and shut down in 2002, this plant is capable of producing 25 TPD of Chlorine and Caustic Soda.

#### **Major Equipment:**

- (11) Chlorine Engineers DCM-404 Electrolysers (Actually 22 cells)
- (1) Thyristor Rectifier- 3612 KW, 84 V, 43 KA
- (1) Thyristor Polarizing Rectifier- 1.1 KW, 55 V, 20 A
- (3) Spare Anodes

**Visit our website for plant pictures and more details!**

### TANK—TITANIUM

- 2302 10,350 Gallon Vertical Titanium (Grade 2 B265) Storage Tank. Flat top and bottom. Approx. 12' diameter x 13' high. Year Built 1988. Previous Use: Sodium Chlorate

### TANKS—STAINLESS STEEL

- 2311 19,068 Gallon 316L SS Vertical Mix Tank. Open top, flat bottom. Unit is complete with baffles (4) and 3 pitched impeller agitator driven by 7.5-10 HP Chemineer bridge mounted agitator. Dimensions: 13'6" diameter x 18' high. 1/4" thick. Year built 1987. (Qty. 2)

Visit us on the web at [www.phxequip.com](http://www.phxequip.com)

Email us at [sales@phxequip.com](mailto:sales@phxequip.com) or call 732-442-6990

### TANKS—FIBERGLASS

- 2323 19,500 gallon Tankinetics FRP storage tank. Flat bottom and dome top. Material hetron 980. Dimensions 14'0" x 16'H. Year built 1989
- 2320 14,382 gal vertical Tankinetics FRP storage tank. 12'6" x 17' H, flat bottom & top. Serial # 6818-02. Year built 1988. Estimated weight 3,275 lbs. (Qty. 2)
- 2318 12,200 Gallon Justin Tanks Inc. FRP Vertical Storage Tank. Approx. 12' diameter x 14'6" high, flat bottom and dome top.
- 2326 11,750 gallon vertical Diamond Fiberglass FRP storage tank. Material Heron 980. Flat bottom/dome top. Approximate dimensions 9'0" x 25'0 H. Serial # 3455. Year built 1993. Estimated weight 3500 (Qty. 2)
- 2324 6,187 gallon Vertical Tankinetics FRP storage tank. Flat bottom/dome top. Material hetron 980. Approximate dimensions 9'0" x 13'0" H. Serial # 6818-04. Year built 1988. Estimated weight 1,675 lbs. (Qty. 2)
- 2322 2,870 gallon vertical Ershigs, Inc. FRP storage tank. ATMOS & 200 degree F, spec gravity 1.0, structure and liner resin: Hetron 980. Approximate dimensions 7'0 x 9'9" H. Serial# D-871623438. Year built 1988. Estimated weight 1,000