# S4M Asset Catalog

Listed in Category Order. Click on an Asset Name for more details.

## Asset Catalog for All Categories (643 Items)

| Asset | Description | Condition / Location |
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| **Agitators** | | **3 Items** |
| Agitators for Drilling Mud<br>Asset ID: 8847<br>Brandt NOV | **Brandt NOV Drilling Mud Agitators**<br>Model VMA-I. The Brandt VMA-I is a vertical plate-mounted mechanical mud agitator designed by NOV to mix and suspend drilling fluids in oilfield mud tanks. Designed for 15HP motor - motor not included. Shafts and paddles not included. Idled 2002, (2) available, priced separately | Used - Fair<br>Alberta Canada |
| Gearbox + Motor 10HP<br>Asset ID: A-1400<br>United Equipment Technologies | Gearbox and motor - inline. Was originally used for top entering agitator, United Equipment Technologies Model Xcel-22, S/N C1641-7B. Falk right angle gear box. Includes Motor 10HP, 1800 rpm. [Photos of shaft and blades are included for info only to indicate prior service - not available. Shaft diameter : 2.75". Came from 28 ft dia tank x 39 ft tall ] Idled since 2012. | Used - Good<br>Grant City, MO |
| Gearbox + Motor 15HP<br>Asset ID: A-1306<br>United Equipment Technologies | Right angle gearbox and motor, for top entering tank agitator. Model XCEL 500. Motor is 15 HP, 1800 rpm. United Equipment Technologies Corp. Includes Falk Right angle gear box. Output 47 rpm. This is gearbox and motor only - used. [Photos of shaft and blades are included for info only to indicate prior service - not available. Shaft diameter : 3.5". Came from 26 ft dia tank x 39.5ft tall ] Idled since 2012. | Used - Good<br>Grant City, MO |
| **Blower** | | **8 Items** |
| Blower Fan 1000HP<br>Asset ID: B2106<br>Buffalo | Buffalo blower with 1000 HP motor. Blower Fan Type L, size 1200, tag L-25 serial num 88302107. Motor is Siemens induction motor 1000 HP 2300 volts 3/60. RPM 1780, frame 588US. | Unrated<br>Peoria, IL |
| Blower Fan 50HP<br>Asset ID: AF93<br>Cardwell | Cardwell Industrial Exhauster blower, Size 350, Model IE857, serial 865-017-1. Approx size 60" front-to-back x 63" side-to-side x 65" tall. Blower 52" dia. Driven by Siemens motor 50 HP at 3545 rpm 460/3/60. | Used - Very Good<br>Illinois |
| Blower Fan 60HP + ss stack<br>Asset ID: cp102<br>Kice | Kice blower fan, Model FA33 ARR 9F, with inlet duct/transition. Fan is carbon steel with 36 inch inlet/outlet and 33 inch wheel. Airfoil fan wheel. Includes outlet duct/stack carbon steel duct 29" dia x 40 ft tall. Includes baseplate 60HP motor. Serial numbers 250431-4 & 250431-11. The fan has not been reconditioned but the motor is reconditioned. Depending on motor rpm, HP, and sp - cfm can be between 11,267 cfm and 25,039 cfm. See chart in links. This blower was sized for a baghouse silo (asset cp101) - both can be purchased together. Price here is for Blower/motor/stack only. Removed and ready to load | Used - Very Good<br>Marissa, IL |
| Blower Kice 7.5HP<br>Asset ID: B2075<br>Kice | Kice Blower, Model FC9, clockwise Arrgt 9FB. SN: 145410. Physical size is 38" x 34" x 27" tall. Inlet diameter 9" OD, wheel diameter 15 5/8", wheel circumference 4.09', fan outlet area 0.5205 sq ft inside. Flow depends on static pressure - range with this 7.5 HP motor on it is from 600 cfm at 3" SP to 1800 cfm at 16" SP. Driven by 7.5 HP Reliance Electric Motor 480/3/60. See links for dimensions and performance charts. Aprox size for shipping 39" x 40" x 27" high. Removed, ready to ship | Used - Good<br>Peoria, IL |

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| **Blower PD Fan (Roots Type) 25HP**<br>Asset ID: AF9<br>Sutorbilt | **Positive displacement blower (Roots Type)**<br>• Gardner Denver Sutorbilt Legend Series vacuum pump Model GAFMCRD, serial S378101. Catalog No. 5MR. Gear dia 6"<br>• Inlet/Outlet size 4"<br>• Capacity 292 cfm at 7 psig to 263 cfm at 11 psig.<br>• Driven by 25HP motor at 1770 rpm. 460/3/60.<br>• In sound attenuating enclosure. Enclosure dimensions 45" x 45" x 48" tall.<br>See brochure in links. | Used - Very Good<br>Illinois |
| **Turbo Fan Blower 1800HP**<br>Asset ID: B-1010<br>Howden Roots | **Howden High Heat Blower - Never Used**<br>**Howden High Heat Blower ExVel Turbo Fan**. Model HBXrG-20/675. Serial # NFF00019-10. Includes Siemens 1500 Series PLC, Bentley Nevada 3500 Series monitor system. This is NEW, old stock. Never used, still in protected crates.<br>• Design Pressure 272.4 psi and Temperature 446F<br>• Inlet Volume 6738.99 ACFM<br>• Main skid plus (1) nitrogen skid and (2) lube unit skids for fan and gear<br>**Driven by Toshiba 1800HP induction motor**<br>• Toshiba World Energy Series 3 phase induction motor, Serial # 140702955<br>• Model # 3VJM400LI6297I<br>• 1800 HP 3540 rpm 4160v 60 Hz 3 phase<br>ExVel™ turbo fans have unique, industry leading impeller and bearing technologies delivering the highest differential pressures available in the fan industry. They can replace more costly centrifugal compressors or multiple blowers with a single unit. This Howden Blower was to be part of the gasification system to move the hot syngas exiting the pyrolysis vessel in a biomass conversion system. It was never installed or used.<br>**Condition** - Still in crates. The crates are sealed against weather, protected, and in long term storage inside a third party protected warehouse. No known refurbishment required - assets are sold As Is Where Is. | New, Old Stock<br>Sparks, NV |
| **Tuthill Blowers 20HP (3)**<br>Asset ID: 2032<br>Tuthill | Tuthill blowers (3) with (6) FlowTek automtic valve manifold with Bray acturators, FlowTek AutoMater. Used. System has now been removed, cleaned, and ready for sale. Blower driven by 20 HP motor 230/460v 3/60 1775 rpm.. Priced for the LOT - 3 blowers and the valve manifold | Used - Very Good<br>Illinois |
| **Upblast Fan**<br>Asset ID: 2457<br>Cook | Upblast Blower fan still in crate - New, Old Stock<br>Generally Upblast fan, low silhouette with steel propeller. Mfg Loren Cook Co. Model 30 LXUL. Design 12,000 cfm at 0.125" sp. Fan rpm 870, Belt drive with 2 HP motor 3/60 460v 1725 rpm open drip proof. Motor in airstream. | New, Old Stock<br>South Dakota |

**Boiler/Auxiliaries** — **1 Items**

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| **Boiler Feedwater Pump**<br>Asset ID: 8818<br>Sulzer | **Sulzer Boiler Feedwater Pump**<br><br>400 GPM Sulzer Boiler Feedwater Pump, Model MSD 3x6x9E, 5-Stages. Flow Characteristics: 400 GPM at 1800 Ft. Hd. (780 PSI), Impeller trim diameter 9,813 inches. RPM: 3560. Like New Condition. Storeroom Spare Rebuilt 07/2021. Steam capacity of boiler rated between 150,000 - 200,000 Lbs. / Hr. IEN # 126835 | Reconditioned<br><br>Virginia |

| Boiler/Biomass | | 2 Items |
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| **Biomass Boiler 1500HP + 1MW GenSet**<br>Asset ID: 7258<br>Hurst | **BIOMASS BOILER. 1500 BHP 450 psig**<br><br>• Hurst Biomass Boiler, 450 psig saturated. Model # HYB 9570-450-1, Capacity 1500HP (51,750 #/hr steam). Heating surface 9750 sq ft.<br>• This is a HYBRID biomass boiler (part firetube & part watertube) designed so well by Hurst Boiler with reciprocating grate<br>• Steam turbine GenSet 1MW - inlet superheated steam 450 psig<br>• System only used for about 6 years, then idled. Built 2009<br>• Fuel was shredded carpet.<br>• Natural gas burner used for startup combustion only, then shut off for operation<br><br>Complete Steam Plant with a non-condensing type Steam Turbine Generator 1.0 MW (rated at 750 KW) , with Deaerator tank, high pressure boiler feed water pumps, wet ash removal system, controls, fuel feeding conveyors, all fans and standard boiler trim. Also includes an Air Technologies CEMS (continuous emissions monitoring system) and a Fabricated Steel Silo with auger discharge for fuel storage and conveyance.<br>Manufacturer Lists the following Features: "Hybrid" Firetube/Watertube Vessel Design; Watertube Section; Firetube Section with Blast Tubes; Reciprocating Fire Grates; Under Fire Air Fan; Reciprocating Drive; Over Fire Fan/Dampers; Carry-Over Reinjection Blower; 1500HP Fire Door; Ash Clean Out Door; Fuel Metering Bin; Ash Removal Conveyor; Refractory Arch. Includes operating manuals and some drawings.<br>See FLYER in link for more details and a component list. Last used for burning used shredded carpet. The blast tubes prevent fouling from ash on the first pass through fire tubes. We have shipping specs, weights, dimensions on file. | Used - Very Good<br><br>Southeast USA |

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| **Biomass Boiler Steam Plant 600HP (Qty 2)**<br>Asset ID: 8823<br>Hurst | **600 HP Hurst Hybrid Underfeed Stoker Boiler**<br><br>**Complete Steam Plant Solution**<br>Quantity Two (2) – Biomass boilers operating at 150 PSI. Capacity is 20,700 lb/hr each (41,400 lb/hr BOTH). – 3,948 SQ FT Heating Surface. Biomass Solid Fuel. IEN # 467525. Formerly fueled with saw dust. Hurst Boiler & Welding Co. hybrid underfeed stoker boiler designed for solid fuel combustion,<br>**Plant includes**<br>• All controls<br>• Deaerator (DA) tank<br>• Feedwater pumps<br>• Water softeners<br>• All available manuals and drawings<br>**PRICE is for BOTH BOILERS and incudes all listed accessories above** | Used - Good<br>Southwest USA |

| **Boiler/Burners & Gas Train** | | **1 Items** |
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| **Boiler Burner 5 MMBTU**<br>Asset ID: 8856<br>ACL Manufacturing | **Boiler Burner 5 MMBTU**<br><br>The ACL Rush Burner Package is designed to provide an all-in-one combustion solution for tank heaters, free water knockouts, boilers, line heaters, de-hys, and treaters. The<br>pre-assembled packages integrate a flame arrestor, fuel valve train, burner management controller, and a high-efficiency burner assembly. Serial # BP062618-01. | Used - Good<br>Alberta, Canada |

| **Boiler/Deaerator** | | **3 Items** |
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| **Deaerator**<br>Asset ID: 2097<br>Advance Boiler & Tank Co | Tray Type Deaerator. Was used as part of a 210,900 Lb/Hr Cogeneration Boiler.<br><br>• Horizontal deaerator with a vertical top with trays. Carbon steel SA516-70<br>• Overall dimensions including insulation: Horizontal bottom part size 8 ft diameter x 18'-6", Vertical top part size 8 ft dia x 8 ft tall<br>• Deaerator storage vessel is 90 inches dia x 16'-3" long, 0.50 " thick steel.(ID = 44.5" radius). ASME MAWP 100 psig. Serial number 490-07, ASME 491-007<br>• Top Heater Tray Evaporator part is 78" OD x 4'-6" length ASME MAWP 100 psig. Serial number 490-06. ASME 491-006<br><br>Deaerator was being actively used and maintained until it was mothballed about 2020. It is still installed, stored inside and dry. Price includes removal and loading of DA only. Structure and piping will be extra if wanted. | Used - Good<br>Northeast US |

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| **Deaerator & Storage Tank System**<br>Asset ID: 8816<br>Advanced Boiler & Tank Co. | **Deaerator System**<br><br>180,000 PPH Deaerator and Deaerator storage tank for boiler feedwater system. Manufactured by Advanced Boiler & Tank Co. in 1988. Specifications:<br><br>• 75 psig @ 300 degrees for both DA tank and feedwater storage tank<br>• DA tank dimensions: 7' 3" tall x 4' 6" diameter (2210mm x 1372mm diameter)<br>• DA storage tank dimensions: 21' 9" length x 8' diameter (6629mm x 2438mm diameter)<br>The DA system was designed to provide feedwater to a 180,000 lb./hr. Nebraska water tube boiler. Price includes dismantling, removal, and loading on your truck(s) | Used - Good<br><br>West Coast, USA |
| **Feed Water System for 150 HP Boiler**<br>Asset ID: 8801<br>Atomspheric | **DEAERATOR & FEED WATER SYSTEM**<br><br>One (1) reconditioned Atmospheric Boiler Feed Water System, complete with a 130/200 gallon carbon steel vented tank, new duplex Grundfos pumps, each sized for the full evaporation rate of a 150 HP boiler for 100% redundancy. System comes, complete with structural steel stand, steam sparge tube and temperature control to preheat and deaerate the makeup water, and water level controls. Cleaned and painted to match the boiler. Feedwater system can ship in 4 to 6 weeks ARO | Reconditioned<br><br>South Carolina |

| **Boiler/Electric Boiler** | | **1 Items** |
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| **84KW Fulton Electric Boiler**<br>Asset ID: 8088<br>Fulton | **84 kW 150 PSI Fulton Electric Steam Boiler with Feedwater System**<br>Boiler is in good working condition - will be shop tested prior to shipping.<br>These boilers are nearly 100% efficient with zero emissions - compact design<br><br>• Style FBE, Model FB084E<br>• Boiler Output: 84 kW or 9 BHP - 164 MBTU/hr, steam at 169 lbs/hr.<br>• Power Voltage: 480/3 Phase Power Amp: 101 Hertz: 50/60. Control Voltage: 120/1 phase<br>• Maximum Allowable Working Pressure: 100 PSI<br>• ASME National Board Number: 114141<br><br>**Includes**<br>Fulton Feed Water System (Single Pump)<br><br>Crane Pump w/ Weg Motor: 1/3 HP<br>Voltage: 208-230/460 60 Hz | Used - Excellent<br><br>Tennessee |

| **Boiler/Firetube** | **3 Items** |
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| **Firetube Boiler 150HP**<br>Asset ID: 8834<br>Superior | **Superior Firetube Boiler 150HP - Reconditioned**<br><br>One (1) 2011 150 HP Superior, 4 pass wet back, 150 PSI, with 15 PSI steam pressure controls for low pressure operation, with a PowerFlame Burner designed to fire natural gas. The boiler has been cleaned on the fireside, waterside, outside, and painted. New fireside and waterside gaskets have been installed. New blowdown piping has been installed. The boiler pressure vessel, tubes, piping, and blowdown valves have been hydrostatically tested. The Honeywell flame safeguard controls have been tested found good. New High Limit with manual reset, Operating Limit, and Modulating Limit steam pressure controls have been installed. The boiler has undergone a simulated test fire, and been electrically and mechanically checked throughout. Any components found defective or obsolete have been replaced. We guarantee that the pressure vessel and tubes are in good condition, and the boiler will pass a hydrostatic test at the time of startup. We will give a 1 year parts replacement warranty on the controls. No labor to change the part is included. The boiler is wired for 460/3/60 main supply voltage will have water level controls to turn the boiler feed water pumps “ON and OFF” to maintain water level control. No taxes of any kind are included in the price. We must receive a Resale or Use Tax Exemption Certificate or applicable taxes may be added to the price of the boiler. Ready to ship.<br><br>• Warranty 1 year | Reconditioned<br>North Carolina |
| **Firetube Boiler 200HP**<br>Asset ID: 8096<br>Johnston | One (1) 1998 200 HP Johnston boiler, 4 pass wet back, gas and No. 2 oil fired, 250 PSI design pressure.<br>The boiler will be cleaned on the fireside, waterside, outside, and painted. The boiler pressure vessel, tubes, piping, and blowdown valves will be hydrostatically tested. The existing Honeywell 7800L Flame Safeguard Controls will be checked and replaced if found defective. New Honeywell High Limit with manual reset, Operating Limit, and Modulating Limit Controls will be installed. The boiler will be electrically and mechanically checked throughout to identify and replace any defective components. The combustion air fan will be run to check for balance and bearing smoothness. We guarantee that the pressure vessel and tubes are in good condition and that the boiler will pass a hydrostatic test at the time of startup. We will give a 1 year parts replacement warranty on controls. These photos are representative - boiler is yet to be reconditioned - allow 6 to 8 weeks after order.<br>This quote is for the boiler only as reconditioned. No support equipment is included. Note that this boiler is a little shorter and wider than standard Johnston dimensions so will not be a direct drop in if replacing with like kind…… | Reconditioned<br>Southeast |
| **Firetube Boiler 300HP**<br>Asset ID: 7124<br>Garioni | Garioni firetube boiler 300HP. Type NG5000, serial 7118. Mfg by Garioni, Brescia, Italy. Capacity 5000 kg/hr (11,000 pph steam or about 300 HP at 12 barg max (180 psig). Firetube 2-pass dry back type boiler. Built in 2002 but only used about 6 months. Electrical for controls is 110V 60 Hz. Burner fires on #2 fuel oil - pumps not included.<br>The pictures show the boiler when it was installed, and now in the laydown yard. Will need new control panel. Sold As Is - price includes loading on your truck. | Used - Fair<br>Ft Worth, TX |

**Boiler/High Pressure** — **1 Items**

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| **High Pressure Boiler**<br>Asset ID: 2096<br>GTS Energy | **High Pressure Steam Generator - to 1,380 psig NEW**<br><br>High Pressure Steam Boiler. New- never used.7200 MBTU/hr. Built in 2015, engineered by GTS Energy. Serial # G-8410. ASME Nat'l Bd # 368 , MAWP 1380 psig at 600F, normal operating pressure is 1250 psig. Honeywell flame management control. Dual fuel Lo NOx burner fired with natural gas or oil. Industrial Combustion LNVLG-100 Lo NOx <30 ppm. Operating steam flow 12,124 lbs.hr at 1160 psig closed loop, 6 inch connections. NUK generator- top down firing. All automatic, closed loop system- requires no operator.<br>***Explanation of Operation*** - The NUK® High-Pressure Steam Generator was specifically developed for oil deodorization applications typically used in the food industry. The NUK is used as a heat source during the deodorization process to safely remove undesirable flavors and odors from edible oils; leaving the oil free from toxins. The NUK High-Pressure Steam Generator is a hermetically closed-looped heating system utilizing a water-steam mixture with maximum design pressures of 1950 psi. The system consists primarily of a vertical cylindrical combustion chamber, coil, burner, steam supply, and condensate return manifolds<br>See links for General Arrangement and P&ID's. | New, Old Stock<br>Tennessee |

| Boiler/Hot Water | | 3 Items |
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| **Hot Water Boiler**<br>Asset ID: U101<br>Bryan | Bryan hot water boiler Model RV800-S-150-FDG, serial 86714. Boiler HP 191 (8 MMBTU input/output 6.4 MMBTU), 942 sq ft surface area. ASME Nat'l Bd# 46145 MAWP 200 psi - operating pressure 150 psi. Natural gas fired. Gordon Piatt burner S12.1-G-50 8 MMBTU. Includes storage tank 275 gallons and recirc pump R4-14U. 1-1/4" 5HP | Used - Fair<br>New York |
| **Hot Water Boiler 5 MMBTU**<br>Asset ID: M33<br>Sellers | Hot water boiler Sellers 5 MMBTU (150HP). Model S-150-W Model 15 Senior. Fired by natural gas - automatic. LoNox burner 30 ppm, turn down ratio 3:1. Input 6.27 MMBTU, Output 5,021,000 BTU/hr, 150 psi max pressure . Water capacity 411 gallons. S/N 103390, ASME Nat'l Bd# 10610. Includes recirculation motor 7.5 HP. Boiler was removed in 2022, and is now in the laydown yard. Photos shown are of when it was installed and after it was removed. | Used - Very Good<br>Van Wert, OH |
| **Hot Water Boilers 2.9 MMBTU**<br>Asset ID: 8828<br>Bryan | **Bryan Hot Water Boilers**<br><br>New-old stock-never used. Two available.<br>Bryan Flextube hot water boilers. Model RV350-W-FD0. Serial # 99426. Input MBH 3500/1750, Output MBH 2940 (2.9 MMBTU/hr or 88 boiler HP). Relief valve 125 psig and MAWP water at 160 psig. Heating surface is 419 sq ft. ASME National Board # 58817. These are set up to run on #2 fuel oil with a Power Flame burner, but can be changed to Natural gas for an additional charge.<br><br>• Delivery in 1 week ARO for first boiler<br>• Delivery 7-9 weeks for second boiler if purchasing both boilers<br>• Quantity (2) available - priced separately | New, Old Stock<br>Tennessee |

| Boiler/HRSG & Gasifiers | 2 Items |
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| **Gas Fired Steam Generator (HRSG)**<br>Asset ID: 7644<br>Rentech | **Rentech Duct Fired HRSG System (Heat Recovery Steam Generator)**<br>**Price Just Reduced**<br>This is a ***brand new*** HRSG - never used. Model Waterfall Type "O"<br>• Rated at 200,000 pph at 400 psig saturated steam with economizer (can also run at 200 psig)<br>• Designed for feedwater flow 400 gpm at 439 psig and 228F<br>**INCUDES** (also see pdf list in link)<br>• Natural gas duct burner system and fuel skid with gas train and flame supervision, rated at 136 MMBTU/h<br>• Steam Generator System (HRSG) Evaporator. "O" type tube arrangement with steam drum and mud drum, 2" tubes<br>• Bypass stack 50 ft x 76" diameter<br>• Exhaust stack 50 ft x 76" diameter<br>• Economizer - finned tube single pass<br>• Boiler Control System: BMS - plc controlled burner management system, CCS - combustion control system, HMI touch screen, Allen Bradley plc and HMI<br>• Interconnecting duct work<br>• Ladders & Gratings<br>Rentech had pre-fit all structural steel in the shop. Once they were assembled, photos were taken, and pieces were disassembled for shipment.<br>Rentech can provide 3-D modeling of the complete boiler system including auxiliaries to assist in the system layout and to avoid costly interference and fit-up issues in the field. (ay be extra cost)<br>**System has been completed (never has been used)**<br>We have complete shipping documents for number of pieces and sizes. | NEW<br>Iowa |
| **Waste to Energy Gasifier Steam Generator**<br>Asset ID: 1964<br>Primenergy LLC (PRME) & Siemens | **Waste to Energy Gasifier & Steam Generator**<br>Steam Generator 50,000 lbs/hr at 150 psig. System disposes of wood flour and carpet waste (the fuel) by a staged combustion process in a Gasifier resulting in hot clean waste gases through a Rentech HRSG (heat recovery steam generator) to generate steam. Natural gas is used at startup to obtain combustion of the fuel, then shut off during the process. Feed is 3 tons/hr of blended waste (or 5 tons per hour of wood flour) generating 50,000 lbs/hr steam at 150 psig, and approx. 745 lbs per hour of ash. Includes ash recovery and silo, gasifier, combustion tube column, HRSG (heat recovery steam generator), baghouse dust collector for fly ash and stack. Siemens was the systems integrator and engineered the plant; PRIMENERGY (PRME) was the general contractor and manufacturer of the KC-17 Gasifier. See all links including PFD for all components. See documents for equipment list | Unrated<br>Georgia |

| Boiler/Thermal Fluid | | 2 Items |
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| **Hot Oil Thermal Boiler 25 MMBTU**<br>Asset ID: B-1000<br>FSE | FSE Energy Thermal Fluid Heater Hot Oil Boiler Model CH25L. Volume 1928 Gal, Heat Surface 2720 square ft, 140 psig @ 660F, Heat Capacity 25,000,000 BTU/Hr (746 BHP), 1254 GPM min flow. Control panel with Allen bradley Panelview Plus 400, Model CM11-G-30 Power flame burner S/N 091455322 Nat Gas | Illinois |

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| **Thermal Oil Heater 0.8 MMBTU**<br>Asset ID: U102<br>Fulton | Fulton thermal oil heater model FT-0080-C. The Fulton FT-0080-C is a gas-fired, vertical four-pass thermal fluid (hot oil) heater with a heat output of 800,000 BTU per hour (235 kW). ASME Nat'l Bd# 4563, serial number 3158C, MAWP 150 psig. Includes expansion tank 32" dia x 89" overall and recirculating pump Dean 1-1/2 x 3 x 8-1/2 RA-3146. and a 7.5 HP motor.<br>Heat Output: 800,000 BTU/hr (235 kW)Maximum Operating Temperature: 650°F (343°C)Maximum Allowable Working Pressure (MAWP): 150 psiRecommended Flow Rate: 50 gallons per minute (189 liters/min)Thermal Fluid Content: 10 gallonsNatural Gas Consumption: ~998 cubic feet per hour at full output | Used - Fair<br>New York |

| Boiler/Watertube | | 6 Items |
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| **Watertube Boiler 160,000 #/hr Superheat**<br>Asset ID: 8079A<br>Rentech | **Watertube Boiler Low Nox**<br>Superheat Steam Boiler 160,000 lbs/hr at 400 psig at 700F, manufactured by Rentech in 2015. Boiler includes:<br>• John Zink Low NOx EcoJet burner<br>• Fueled by natural gas<br>• Economizer & silencer<br>• FD Fan with motor and VFD<br>• Includes boiler trim, valves, catwalks, ladders and associated piping | Used - Very Good<br>Canton, NC |
| **Watertube Boiler 190,000 #/hr**<br>Asset ID: 1360<br>Indeck | **Indeck Watertube Boiler w/ Economizer 190,000 lb/hr**<br>• Operating pressure 100 to 360 psig<br>• Boiler Model A4-165-R<br>• Dual Fuel: Natural Gas at 237 MMBTU/hr or #2 fuel oil<br>• LoNOx Natcom burner: P-237-HL0G-39-2229 Hyper Mix, burner serial # 9167-1<br>• Economizer<br>• Grade mounted FD fan<br>**Still installed, Currently in Operation. Will be available toward end of 2026** | Used - Good<br>Illinois |

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| **Watertube Boiler 205,000 #/hr**<br>Asset ID: 1358<br>Victory | **Victory Watertube Boiler w/ Economizer rated at 205,000 lb/hr at 150 psig**<br>• Model VS-7-116 "O" Type design<br>• Boiler was in operation running at 190,000 #/hr at 150 psig. ASME MAWP 250 psig<br>• Natural gas fired includes gas train<br>• **Economizer** - includes steel structure and inlet/outlet breeching. Overall height about 18 ft, structure is 15.3 ft x 8 ft. Weight of all is approx 45,400 pounds. Ecxonomizer alone is 16.3 ft long x 6.5 ft wide x 6 ft tall, weight 24,300 pounds dry. Design ASME 490 psig at 700F, 2 inch tubes.<br>• Controls<br>• Combustion blower is a NY Blower with 400 HP motor<br>• Stack 5 ft dia<br>• Boiler 9301, Serial Number 541B.<br>• See Drawing and inspection report in Links<br><br>The VOYAGER® O-style Boiler is designed to provide a rapid ramp rate and is easy to ship, install, operate and maintain. These are 100% water cooled and refractory free front and rear walls.<br>**There are two identical boilers, other is opposite hand. See also asset 1359**<br>**Still installed, Idled in March 2025** | Used - Good<br>Illinois |
| **Watertube Boiler 205,000 #/hr**<br>Asset ID: 1359<br>Victory | **Victory Watertube Boiler w/ Economizer rated at 205,000 lb/hr at 150 psig**<br>• Model VS-7-116 "O" Type design<br>• Boiler was in operation running at 190,000 #/hr at 150 psig. ASME MAWP 250 psig<br>• Natural gas fired includes gas train<br>• **Economizer** - includes steel structure and inlet/outlet breeching. Overall height about 18 ft, structure is 15.3 ft x 8 ft. Weight of all is approx 45,400 pounds. Ecxonomizer alone is 16.3 ft long x 6.5 ft wide x 6 ft tall, weight 24,300 pounds dry. Design ASME 490 psig at 700F, 2 inch tubes.<br>• Controls<br>• Combustion blower is a NY Blower with 400 HP motor<br>• Stack 5 ft dia<br>• Boiler 9201, Serial Number 541A<br>• See Drawing and inspection report in Links<br><br>The VOYAGER® O-style Boiler is designed to provide a rapid ramp rate and is easy to ship, install, operate and maintain. These are 100% water cooled and refractory free front and rear walls.<br>**There are two identical boilers, other is opposite hand. See also asset 1358**<br>**Still installed, Idled in March 2025** | Used - Good<br>Illinois |

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| **Watertube Boiler 250,000 #/hr**<br>Asset ID: 2349<br>Cleaver Brooks | **Cleaver Brooks Industrial Watertube Boiler 250,000 lbs/hr superheated steam**<br>• Boiler model NB-801D-125-550-AL-LH, serial CP-4582<br>• NEW, never installed<br>• D-type watertube style<br>• Pressure 420 psig operating pressure (superheated, temp 650F +/- 25). Superheated steam<br>• Natcom LoNOX Burner, natural gas. Gas train included. Burner model NCB-330-68A-000-S10-000<br>• Stack included - 3 sections<br>• Economizer, ECO, Inc. vertical 7.5 ft dia x 20 ft tall<br>• Controls - 2 plc's + burner management + combustion controls<br>• Includes SCR for emissions reduction<br>• Under nitrogen purge with desiccant in furnace area<br>Removed and stored - ready to load. See additional information in document links | New, Old Stock<br>Illinois |
| **Watertube Boiler 90,000 lbs/hr**<br>Asset ID: 2116<br>Victory | **Watertube Boiler with Economizer 90,000 #/hr Natural Gas**<br>Victory Natural Gas Watertube Boiler Type O, Voyager Series VS-5-78SP SH. Capacity 90,000 lbs./hr saturated steam at 800 psig (design pressure 950 psig) ASME Nat'l Bd # 589.<br>• Economizer<br>• Feedwater System<br>• Stack 50 feet<br>• Electrical and PLC control systems.<br>With feedwater temperature 227 Fahrenheit to economizer inlet. Complete economizer system. Furnace Radiant Heating Surface 889 Sq. Ft, Boiler Convective Heating Surface 6,455 Sq. Ft., Total Heating Surface 7,344 Sq. Ft. Superheater surface is 980 sq. ft. Drums Submerged arc automatic welded and stress relieved with radiographed welded seams and tubes are rolled and expanded into the drum.<br>Drum material is SA-516 Gr. 70. Mud Drum is provided with a 12” x 16” hinged manway access in each drum head. Steam Drum is provided with a 12” x 16” hinged manway access in each drum head. All tubes enter the drum radially with full parallel bearing through the drum plate and all tubes are full diameter with no swaging.<br>All tubes are full diameter tubes with no swaging. | Used - Very Good<br>California |

**Centrifuge and Decanter/Centrifuge** — **14 Items**

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| **Centrifuge B214 A**<br>Asset ID: 5575<br>Alfa Laval | Alfa Laval B214A centrifuge - **Reconditioned**. The complete unit will be reconditioned, balanced, new seals/bearings, painted. Photo shows machine prior to reconditioning - allow 4 to 6 weeks delivery. Reconditioning includes, complete disassembly of machine, sandblast and paint all carbon steel parts, remove gear pump, install end plate, Rebuild using all new parts, Bearings, seals, and O-rings (Viton). All Vibration Isolators units will be tested and come with manuals, some tools and one set of gravity discs. High speed balance will also be performed. 40 HP motor will be rebuilt or new depending upon timing. Welcome to inspect the machine as tests are run to verify balance. Quantity (2) - price shows reconditioned value for one - priced separately. Centrifuge can also be purchased " as is, where is " if desired.<br>• Capacity for purifying jet fuel is 150 gallons per minute.<br>• Capacity for refining or water washing vegetable oil 30,000 pounds/hr (60 gpm) | Reconditioned<br>Houston, TX |
| **Centrifuge B214 C**<br>Asset ID: 7117<br>DeLaval | DeLaval B214C solid bowl disc centrifuge. Serial number 3532804. Capacity approximately 36,000 to 40,000 #/hr (84 gpm). Motor is 40HP. Cleaned and painted, epoxy internal coating but not reconditioned. Bowl removed and crated for shipping. | Used - Very Good<br>Texas |
| **Centrifuge MAB 206**<br>Asset ID: 1756<br>Alfa Laval | Alfa Laval centrifuge Model MAB 206-S-24-60-HZ. Serial No. 2965454 Throughput capacity approx 10.6 m3/h (46.6 gpm). Separation takes place in a solids-retaining bowl that can be arranged for either clarification or purification. Solids retained in bowl and removed by manually cleaning. Was in biodiesel service. Has been idle since 2018. Voltage: 3-Phase 575v. There are (2) MAB centrifuges here (Asset 1756 and Asset 1757). If both are bought, we can ship on the skid they are mounted on. Price is for EACH MAB centrifuge which includes removal and loading on your truck. Controls not included. Local Start/Stop Control Only. We can provide controls at additional charge. Note: Unit was in working condition in a biodiesel plant when idled in 2018. Now stored outside in laydown yard since 2023 - will need reconditioning - we can do that for you. | Used - Good<br>Saskatchewan |
| **Centrifuge MAB 206**<br>Asset ID: 1757<br>Alfa Laval | Alfa Laval centrifuge Model MAB 206S-24-60/4049-8. Serial No. 4032493. Throughput capacity approx 10.6 m3/h. (46.6 gpm). Separation takes place in a solids-retaining bowl that can be arranged for either clarification or purification. Solids retained in bowl and removed by manually cleaning. Was in biodiesel service. Has been idle since 2018.. Voltage: 3-Phase 575. There are (2) MAB centrifuges here (Asset 1756 and Asset 1757). If both are bought, we can ship on the skid they are mounted on. Price is for EACH MAB centrifuge which includes removal and loading on your truck. Controls not included. Local Start/Stop Control Only. We can provide controls at additional charge. Note: Unit was in working condition in a biodiesel plant when idled in 2018. Now stored outside in laydown yard since 2023 - will need reconditioning - we can do that for you | Used - Good<br>Saskatchewan |

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| **Centrifuge OSB-35**<br>Asset ID: 1748<br>Westfalia | Remanufactured Westfalia model OSB 35-02-576 single pump on light phase, heavy phase by gravity oil purifer. No controls. Capacity nominal 23,000 liters/hr (100 gpm). This machine is completely rebuilt. This includes replacement of bearings, seals and remanufacture of any substandard parts. The exterior cosmetics are restored to the best possible condition. The machine will be assembled, balanced, and run for several hours prior to shipping.. Ready to ship - one - two weeks ARO<br><br>• Includes:20 HP, 480 Volt, 3 Phase, 60 Cycle Explosion Proof Motor<br>• 6500 RPM Bowl Speed, 11,000 G Force<br>• Paring Device on Light Phase<br>• Gravity Discharge on Heavy Phase<br>• Direct Drive<br>• Powder Coated Frame<br>• 20 Litre Bowl Volume<br>• 11 Litre Sludge Space<br>• 40 Degree Bowl with 0.5 MM Caulk Space<br>• Stainless Bowl<br>• SS Bowl Liner, with set of Erosion Clips<br>• Water Harness<br>• Special Set of Tools<br>• Operation / Parts Manual<br>• Warranty 6 months | Reconditioned<br><br>Alberta |
| **Centrifuge PX30**<br>Asset ID: R214<br>Alfa Laval | Alfa Laval PX-30 degumming centrifuge. Serial no. 4118817, built 2001. Capacity on edible degumming is 4600 lb/hr (2100 L/hr). Rotation 8400 rpm, motor 7.5 kw. Includes (2) hydration tanks for water degumming with top entering agitator capacity 2.5 m3 (600 gallons each). (record E210) idled since 2006 | Used - Fair<br><br>New York |
| **Centrifuge PX65**<br>Asset ID: 8815<br>Alfa Laval | **Alfa Laval Centrifuge PX 65**. Used, good condition. Voltage 440v, 60 Hz. Serial number for one of the machines is 4147096-2006. Last use was in edible oil refinery in Asia.<br><br>• No tools but we can furnish as option<br>• No controls - we can furnish new controls with touch screen and ss panel as an option<br>• We can recondition, add new gaskets & seals, balance machine, and test running condition on water - as an option<br>• Allow 5 to 6 weeks for transportation from Asia to the U.S. More time prior to delivery would be necessary depending on options chosen<br>• Quantity (2) - Priced separately for EACH. Includes removal, transportation delivered to US Gulf Coast. Tariffs extra, expected to be $7,000 but will be assessed at cost. | Used - Good<br><br>Delivered to US West Coast, Gulf Coast |
| **Centrifuge PX80**<br>Asset ID: 8814<br>Alfa Laval | **Alfa Laval Centrifuge PX 80**. Used, good condition. Voltage 440v, 50 Hz. Serial number 4205800/2014. Last use was in edible oil refinery in Asia.<br><br>• No tools but we can furnish as option<br>• No controls - we can furnish new controls with touch screen and ss panel as an option<br>• We can recondition, add new gaskets & seals, balance machine, and test running condition on water - as an option<br>• Allow 5 to 6 weeks for transportation from Asia to the U.S. More time prior to delivery would be necessary depending on options chosen<br>• Price Includes removal, transportation delivered to US Gulf Coast. Tariffs extra, expected to be $7,000 but will be assessed at cost. | Used - Good |

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| **Centrifuge RSA-60**<br>Asset ID: 1680<br>Westfalia | Westfalia RSA 60-01-076 vegetable oil separator.serial # 1697-254. Max bowl speed 6450 RPM, solids 1.25 kg/dm3, heavy solids 1.1 kg/dm3. Driven by 15 KW (20 HP) explosion proof motor 400v 3 phase 50 Hz. Rated @ 13000 LPH (approx 60 gpm), both liquid phases discharged under pressure. No tools or controls. Was recently taken apart and thoroughly cleaned/inspected. Bowl has been rebuilt and installed. | Used - Very Good<br>Europe |
| **Centrifuge RSE 150**<br>Asset ID: 8826<br>Westfalia | **Westfalia Centrifuge / Separator**<br><br>Model RSE 150-01-776. Serial # 1724 266.Maximum admissible rated bowl speed is 4050. Does not include any controls or tools. | Used - Good<br>West Coast |
| **Centrifuge RSE 200**<br>Asset ID: S3211<br>GEA Westfalia Separator | GEA Westfalia Separator / Centrifuge. Model # RSE 200-01-776. Serial # 1727-062. Will be fully reconditioned., allow 6-8 weeks. Includes tools. We can furnish control panel if needed for extra. | Unrated<br>Texas |
| **Centrifuge RSI 300**<br>Asset ID: 8664<br>GEA Westfalia | Vertical Degumming centrifugal / separator centrifuge. Mfg. by Gea Westfalia in 2021. Model # RSI-300-01-072. Stainless steel 304. 80 psi design pressure @ 250°F.(barg). Design flow: 470 gpm.(91,650 lb/hr) Fluid density:<br>55.3 1b/ft3, fluid viscosity: 12.6 cP. Type--Self Cleaning Disc Stack, Max. admissible rated bowl speed 4500 rpm, Max. admissible density of the feed product 1.1 kg/dm3, Heavy liquid 1.1 kg/dm3, Solids 1.3 kg/dm3, Min/Max temp of feed product 5/90 °C,<br>Min/Max throughput 45/50 m3/h.<br><br>• Material: 304SS<br>• Manufacturer: GEA (Westfalia Seperator)<br>• Model: RSI-300-01-072<br>• V/H: V<br>• Driver Type: Motor<br>• HP: 75<br>• Bowl Speed: 4,500<br>New- Old Stock. Never been used. Includes control panel but no VFD. | New, Old Stock<br>Texas |

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| **Centrifuge VO 10 ss**<br>Asset ID: 1931<br>Alfa Laval | **New Alfa Laval VO10 centrifuge**<br><br>NEW centrifuge still in original crate. Built in 2021 and never used. This Alfa Laval VO-10 disk centrifuge is aimed for gentle and cost-efficient refining of vegetable oils.<br><br>• Rated at hydraulic capacity 44 gpm for a nominal capacity of 100 MTPD (19 gpm).<br>• Direct drive 18.5 KW (25 HP) motor with VFD. 480v 3/60<br>• All wetted parts in contact with product are stainless steel 304<br>• Controls included<br>• Tools included<br>• Still in original crates<br>• We have the complete specifications in our Virtual Data Room - by invitation<br>• Available for immediate shipment | NEW<br><br>Colorado |
| **Centrifuge, Water Wash**<br>Asset ID: E211<br>CSSC Nanjing Luzhou Machine Works | Water Wash Centrifuge Model ZYDR207JS-33 Bowl Speed 6370 rpm, Capacity 2500 l/hr, weight 753 kg | Used - Fair<br><br>New York |

| Centrifuge and Decanter/Decanter | | 11 Items |
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| **Decanter**<br>Asset ID: 1998<br>Siebtechnik | Siebtechnik short bowl decanter (SBD) model SBD 400K, serial 6790. Speed 2800 rpm. Drive motor approx 20 HP.<br>The SHORTBOWL decanter with cantilever design is the optimal solution for hot applications and high cleaning requirements. This over-hung design special geometry is highly suited for the separation of fine solid particles having a specific gravity that is very different from the liquid phase. The unit is ideal for pharmaceutical or food operations. | Unrated<br><br>Indiana |
| **Decanter**<br>Asset ID: P127<br>China | Decanter bowl speed 3500 rpm, develops 2560 G centrifugal vaue. Capacity 1-3 m3/hr. Rotary Bowl dimensions 380mm dia x 618mm long. Overall dimensions 2400 x 1400 x 910mm. Motor 11kw, weight 1100 kg. Last use was in extraction 2-phase meal vs oil. | Used - Fair<br><br>New York |
| **Decanter A-L NX-6541**<br>Asset ID: 7881<br>Alfa Laval | **Alfa Laval Decanter Centrifuge, Food Grade**<br><br>Alfa Laval NX-6541 solid bowl decanter centrifuge. **Food grade**. Maximum bowl speed 3100 rpm. 25" diameter x 98.75" long bowl. 360 degree solid discharge ports, 9" single lead conveyor, base, casing gearbox 127/1 ratio, 75HP main drive motor, 30HP backdrive motor, 460V, 3PH, 60Hz. The product contact areas are constructed from stainless steel. This system has approximately 500 hours of run time and is in excellent condition. Price is "As is". For an additional charge, we can add new bearings, seals, O-rings, and have balancing with test run done. | Used - Excellent<br><br>Iowa |

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| **Decanter A10-4**<br>Asset ID: 7885<br>Andritz | **NEW Decanter - Andritz A10-4**<br><br>***Price Reduced***<br>Andritz A10-4 decanter centrifuge with oil lubrication. New-unit is still on skid and in boxes. Was never installed. G force 2,700. Bowl Diameter 1000mm (39 inches). Motor 355/160 KW.<br>General Description: The ANDRITZ decanter centrifuge A10-4 is an industrial solid-bowl centrifuge optimized for the high-volume dewatering of fine solids and tailings. It features a large diameter-to-length ratio, delivers centrifugal forces up to 2,700 G, and utilizes a dual VFD drive for automated torque control.Electrical and controls not included | NEW<br>California |
| **Decanter CA-458**<br>Asset ID: 7638<br>Westfalia | Westfalia CA 458-00-02 decanter centrifuge, 316ss. Max bowl speed 3000 RPM, 2300 G's, 18 x 80" bowl ID. 6.25" single lead hardsurfaced conveyor, 30 KW motor 440/3/60/3535 RPM, hydraulic backdrive with 15 HP motor feed tube, chutes and control panel mounted on a stand. 1994 vintage. | Used - Very Good<br>Florida |
| **Decanter CB-505**<br>Asset ID: 1716<br>Westfalia | Westfalia solid bowl horizontal decanter centrifuge. 2 phase, Model CB-505-71-32 sanitary. Used. Bowl 500/265 mm/19,685" diameter x 84" long. Centripetal pump discharge with GEA Varipond P design for adjusting pond depth on the fly. T316L stainless steel contact surface. Main drive 120 HP (90KW). Back drive 20HP. Max bowl speed 3500 rpm. Lube system with pump and plate exchanger, casing, and frame. No stand, no controls. Priced As Is - will need a stand. We can also recondition for you | Unrated<br>Texas |
| **Decanter Frames & Bases**<br>Asset ID: B2092<br>Alfa Laval | Frames and bases for Alfa Laval decanter PM75000. Three steel frames for decanter, (4) decanter bases (one with cover), Sold as a LOT. | Used - Fair<br>Peoria, IL |
| **Decanter P-3400 3-Phase**<br>Asset ID: 6001<br>Sharples | 3-phase decanter Sharples P3400 Super-D-Canter. Bowl dimensions 14" x 48", beach angle 10 degree. Max speed of 4000 RPM, Max G force 3160 x G Force. Quasi-axial flow conveyor design. 316 ss rotating assembly & case and cover. P-165, Mounted to a unitized sub-base with vibration isolators. Main drive motor: 40 H.P. TEFC, 1800 RPM, 480 voltage, 3-phase, 60 cycle power required, NEMA-12 enclosure, Reduced voltage starter comes with it. No back drive motor. Built in 1980 - decanter was rebuilt in 2001. P.125 Gearbox Ratio - Max Allowable Torque on Gearbox 1.72kgf m. Capacity from 13 gpm to 75 gpm depending on viscosity of feed and rpm of motor. Rated at 11 ton/hr at infeed of 10% solids (264 TPD max). Price includes removal and loading - any crating or handling for international shipping will be extra. | Used - Very Good<br>Mexico |
| **Decanter PM38000 w/skid & controls**<br>Asset ID: 7889<br>Alfa Laval | **Decanter with controls, drives, conveyor - skid mounted**<br><br>Alfa Laval PM38000 horizontal solid bowl decanter style model CS5.5-10-Z-TW , 13.9 x 57.5 inch bowl. Capacity of 12-40 gpm. Was last running food & beverage active sludge and municipal waste active sludge (non-abrasive). Electric Reliance motor. 1071SF 40HP. Rotdiff hydraulic back drive. Baldor super E motor, 7.5HP, 230/460v, 19/9.5 amps,1770rpm, 60Hz, 3 phase. Includes screw conveyor 9" dia x 12 ft long. This unit has been reconditioned (rebuilt) with bearings, seal, gasket, balance. BD disc can be added to this machine for additional cost. Inspection report available upon request. | Remanufactured Rebuilt<br>Utah |

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| **Decanter, Gastight ss316**<br>Asset ID: 2350<br>Siebtechnik Tema | **Siebtechnik Tema SBD-210 gastight short bowl decanter, 316ss.**<br>• Gas tight decanter reconditioned by OEM in 2020<br><br>Max bowl speed 5000 RPM, 2933 x G, rated @ 11 GPM, 0.45 bar, 5.5 KW XP motor 690/400/3/50, gearbox, 0.37 KW XP backdrive, feed tube, guard, chutes, nitrogen purge system, SS support frame, PLC control panel with 2 VFDs and all documentation. 2013 vintage. | Reconditioned<br>Eastern Canada |
| **Sharples P3400 Decanter**<br>Asset ID: 2055<br>Sharples | Sharples P3400 completely reconditioned decanter centrifuge 14 x 48 52,500.00<br>Carbon steel skid and guards. 4.25 conveyor with hardfacing 4000 rpm max<br>Non Sanitary P3400 , 15 HP back drive, 40 HP Main Drive 3,100 g's max, 50 GPM<br>Gearbox assembly 125 to 1 gear box ratio<br>All new bearings, seals, mechanical seals, o rings<br>Paint Carbon steel base, White, paint carbon steel sub base white, and stand<br>New main motor coupling and belts and vibration switch<br>Control panel - Decanter Centrifuge control panel with 40 HP Bowl and 15 HP Backdrive<br>460 VAC / 3 phase power / 60 Hz<br>120 VAC transformer with protective circuit breakers<br>24VDC Power Supply with protective circuit breakers<br>NEMA 12 Freestanding enclosure with thermostat controlled cooling fan<br>Flange mount 100 amp disconnect and ground lug<br>150HP VFD with protective fuses for the Bowl<br>15HP VFD with protective fuses for the feed pump<br>Emergency Stop Pushbutton | Reconditioned<br>Texas |

| **Chiller** | | **3 Items** |
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| **Chiller 600 Ton**<br>Asset ID: 2094<br>Trane | Trane CTV CenTraVac CVHF water cooled chiller, 600 ton. Model CVHF485. Refrigerant R-123. Motor 480v 3/60 - chiller rated at 256KW, approx 350 HP. Includes evaporator and condenser plus controls. Quantity (4) - priced separately | Used - Good<br>Pennsylvania |
| **Chiller, 100 Ton**<br>Asset ID: 2100<br>Thermal Care | **Water Cooled 100 Ton Water Cooled Chiller**<br>• 100 Ton water cooled chiller by Thermal Care. Model MXW100. Built in 2012. Has cooling capacity of 100 tons (352 kw) with a set point range of 20 to 75 Fahrenheit. MCA @ 460v / 3phase / 60Hz -209 amps. MOP @ 460v / 3phase / 60Hz-350 amps.<br>• Rotary screw compressor with integral oil separator and filter. Direct drive at 166 FLA 460v 3/60 = approx 132 KW rated. Motor is probably 200 HP.<br>• Chiller set points from -20F to 75F<br>• Runs on R134a refrigerant.<br>• Stainless steel brazed plate evaporator<br>• PLC Control panel with high resolution 12" screen operator interface. NEMA-12 C-UL 508A listed and labeled control panel. Compact size with easy access to controls and components. Shipping weight is 4,315 lbs. | Used - Good<br>Illinois |

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| **Zero Chiller Tank**<br>Asset ID: U106<br>Zero | Stainless steel jacketed chiller Mfg Zero (originally designed for milk). Size is 3 ft dia x 9'-8" long. On short ss legs. Volume is 200 gallons. Cooling rate is 54,000 BTU/hr. Has 2 top entering agitators. Idle since 2006 | Used - Fair<br>New York |

| Columns | | 9 Items |
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| **Biodiesel Stripper**<br>Asset ID: VF-5020 | Biodiesel Stripper stainless steel system for a 10 MGY biodiesel plant. Consists of:<br>• Stripper Column VF 5020<br>• Pre stripper vessel VF-4035<br>• Pre stripper feed tank VT-4025<br>• Biodiesel stripper feed tank VT-5015<br>• Biodiesel Stripper Condenser (CH) ET-5029 Type BEM, built 2016 shell 150 psi at 250F / tubes 150 psi at 200F. Stainless 316L, area 139 sq ft<br>• Biodiesel Stripper Chilled Condenser (CV) ET-4037 Type BEM, built 2016. shell 150 psi at 150F / Tubes 150 psi at 150F. Stainless 316L Area 20.7 sq ft.<br>• Vacuum Pump Biodiesel Stripper KP-5035 Liquid ring vacuum pump driven by 25HP motor | Used - Very Good<br>Missouri |
| **Distillation Column 14"**<br>Asset ID: 8136<br>Paul Mueller Company | Glycerin Distillation Column. 14 inch Distillation Column built in 2006 by Paul Mueller Company. NEW S/N 357210-89. ASME NB# 43140 MAWP 50 psi @ 450F. Material: 304L stainless steel. 3 pieces - 313 inches overall height. NEW | New, Old Stock<br>Virginia |
| **Distillation Column 24"**<br>Asset ID: 8137<br>Paul Mueller Company | Methanol Distillation column. NEW - Built 2006 by Paul Mueller Company. 24" Distillation Column. S/N 357209 97-99. 4 pieces - 544 inch overall height. ASME MAWP 40 psi @ 250F. Material: stainless steel 304L. NEW. Empty Weight: 6116 pounds | New, Old Stock<br>Virginia |
| **HP Vertical Column**<br>Asset ID: C-210<br>EnerFab | Hydrolis Column - EnerFab 6000 gallon vessel. MAWP Interior 3000 psig @ 750F, MAWP Exterior 165 psig @ 750F, MDMT - 20 F @ 3000 psig, Jacket MAWP 150 psig @ 750F, MDMT -20F @ 150 psig, S/N 1410086-1. 2 ft I.D. Jacket and 50 ft 6 in OAL | Used - Good<br>Illinois |
| **HP Vertical Column**<br>Asset ID: C-310<br>EnerFab | EnerFab 400 gallon vessel. MAWP Interior 3000 psig @ 750F, MAWP Exterior 165 psig @ 750F, MDMT - 20 F @ 3000 psig, Jacket MAWP 150 psig @ 750F, MDMT -20F @ 150 psig, S/N 1410086-2. 2 ft I.D. Jacket and 35 ft 6 in OAL | Used - Good<br>Illinois |
| **HP Vertical Column**<br>Asset ID: C-408<br>EnerFab | EnerFab 400 gallon vessel. MAWP Interior 3000 psig @ 750F, MAWP Exterior 165 psig @ 750F, MDMT - 20 F @ 3000 psig, Jacket MAWP 155 psig @ 750F, MDMT -20F @ 150 psig, S/N 1410085-1. 2 ft I.D. Jacket and 50 ft 6 in OAL | Used - Good<br>Illinois |
| **Methanol Distillation Column**<br>Asset ID: VSL301<br>SRS Engineering | Methanol distillation column - 5 sections. Insulated, no jacket. Mfg by SRS Engineering Corporation, Model SRXC. Bottom section VSL5 is reboiler. Approx. size is 3.5 ft dia x 56 ft tall. Includes structure. The SRXC-Series is a completely automated methanol recovery/purification system for recovering methanol from crude glycerin produced in the biodiesel production process. The SRXC system is designed to process the glycerin stream providing a very dry methanol with a purity exceeding 99.5%. The SRXC employs a specially designed fractionating column with a reflux stream is used to separate the materials in a continuous mode. Specification vary a little - This column was reconditioned and modified in 2016. Price includes methanol distillation column, methanol distillation condenser, distillation reflux drum, everything in the structure plus the structure itself. Has been idle since 2022 | Used - Good<br>Moberly, MO |

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| **Packed Column Biodiesel Distillation**<br>Asset ID: C-805<br>Fenix | Packed Column - Fenix Column 8500 gallon, 5.6 ft dia x 79.6 ft SS, SN E-412 (330412.01.13), Design pressure FV/2.0 KG @ 250C. Last used as Biodiesel Distillation Column | Used - Very Good<br>Illinois |
| **Packed Column Methanol Distillation**<br>Asset ID: C-704<br>Fenix | Packed Column - Fenix Column 5400 gallon, 4 ft x 76 ft SS. Last used as Methanol Distillation Column | Used - Very Good<br>Illinois |

## Columns/Scrubber — 1 Items

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| **Wet Scrubber, Chemical**<br>Asset ID: FB-51<br>Viron | Acid scrubber. Chemical scrubber, vertical, Sits on reservoir 34" x 60" rectangular with pump. Scrubber is 2 ft dia x 15 ft tall. Designed for vacuum. Mfg is Viron International, Model VCA-36-FRP-0.3-36 Carbon. Serial 13352. Designed for 300 cfm. Has EchoSpan level indicator transmitter and FRP mist eliminator pad at packing depth 28" | Used - Good<br>Illinois |

## Compressor/Air Compressor — 3 Items

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| **Air Compressor**<br>Asset ID: 8844<br>Kaishan | **Single Stage Rotary Air Compressor**<br>Manufactured by Kaishan. Model krsp 50. Serial # K372012840U/01. Capacity is 239 CFM with a 50HP motor. 460V/3 ph/60HZ. Hours of operation: 3,412 hrs.<br>Comprressor was idled in 2022 with no issues. Ran perfectly. | Used - Excellent<br>Alberta Canada |
| **Air Compressor, Recip 2HP**<br>Asset ID: 2066<br>Ingersoll Rand | Ingersoll Rand recip air compressor Model P1.5IU-A9, serial P20288T19051. Capacity 4.6 cfm at 135 psig. Voltage 115/1/60 2HP. With integral reservoir tank 20 gallons. Overall size 23" wide x 43" tall. Belt driven quiet operation 75 dBA. This is part of gryphon CBD dryer system belt tensioner and NOT SOLD Separately. Part of an entire CBD extraction system - enter PK6020 to see all components. | Unrated<br>Northern US |
| **Air Compressor, Recip plus Dryer**<br>Asset ID: 2052<br>EMAX | **Reciprocating air compressor and refrigerated dryer**<br>Emax air compressor, sits on top of its own 80 gallon air receiver. Driven by 7.5 HP motor, 220v 1 phase. Maximum 175 psi and 26 scfm. Includes refrigerated air dryer refrigerant is 134A. Refrigerated dryer is EMAX Model EDRCF1150030. pk6020 | Used - Very Good<br>Northern US |

## Compressor/Gas Compressor — 2 Items

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| **Vapor Compressor (MVR)**<br>Asset ID: K-1651<br>AC Compressor Corp | **MVR Gas Compressor built by AC Compressor Corporation**<br>• Model D24JR. Skid Mounted<br>• Single stage centrifugal compressor with Buffer/Educt labyrinth shaft seals, and remote oiler<br>• Includes 2000 HP Reliance squirrel cage induction electric motor, 1800rpm, 4000v 249A 60Hz/3 phase<br>• Includes motor starter<br>• Lufkin gearbox model N1400C<br><br>Inlet volume: 49,375 ACFM. Serial number 1634-11461. Rated speed: 6012 RPM, temperature: 217F, pressure: 15 PSIA. Discharge pressure: 22.9 PSIA. Removed, ready to load on your truck. | Used - Good<br>Grant City, MO |
| **Vapor Compressor (MVR)**<br>Asset ID: 380-EQ-882<br>AC Compressor Corp | MVR Vapor Compressor by A C Compressor Corporation. Skid Mounted. Model # D20JR, Serial # 1634-11671. 22,543 ACFM Centrifugal Air Compressor. Single stage with buffered labyrinth type shaft seal. Features a cast iron housing with a stainless steel impeller and shaft. Inlet temperature 223 degrees F, Inlet pressure 15.6 MMH20, Discharge pressure 19.52 MMH20, Rated speed 628 RPM. Maximum continuous speed 6289 rpm, Maximum allowable discharge temperature 400 degrees F, Maximum allowable discharge pressure 15.7 psig. Driven by a Siemens, Type CG II 500 HP, 1775 RPM, 4000 volt motor. Motor rated for 60 amps @ 60 Hz. Compressor is coupled to motor through a Westech high speed gear unit with oil cooler, model # 10705. Drive couplings are by Rexnord and system features oil control and vibration analysis with a Bently Nevada 3300 system. Part of Evaporator package PK-6045 and might not be able to be sold separately - Ask Us. For a list of all components, enter "pkevap" in the keyword search terms box. | Used - Very Good<br>Saskatchewan |

| Conveyor/Belt | | 5 Items |
|---|---|---|
| **Belt Conveyor**<br>Asset ID: 2057 | Belt conveyor, rubber cleated 23.625" wide. .Includes hopper infeed. Drive motor is 1/2 HP 230/460 3/60 1725 rpm with Nord gaer unit. Built 2019. Part of an entire CBD extraction system - enter PK6020 to see all components. | Used - Very Good<br>Northern US |
| **Belt Conveyor 12 ft**<br>Asset ID: AF8 | Inclined belt conveyor (last used to feed hopper). Approx size 18" wide x 12 ft long. | Unrated<br>Illinois |
| **Biomass Belt Conveyor ss**<br>Asset ID: 8569 | Biomass belt conveyor for bulk conveying. Stainless steel frame with cleated belt. In a "Z" configuration. Driven by a 1/2 HP motor at 1720 rpm 230/460v 3/60. Conveyor is 19 ft long x 6ft-6in tall x 31 inches wide. Pick-up height at bottom infeed is 8.5 inches. Belt runs slow - approx. a few feet per minute; material is either rubber or perm. | Used - Good<br>Colorado |
| **Biomass Conveyor ss**<br>Asset ID: 8561<br>Marathon | Biomass stainless steel conveyor, approx size 16 inch wide x 24 ft long. Belt conveyor with flights. Driven by 1 HP motor 230/460v 3/60 TEFC. . The motor is 3-phase so it can be set up for a variable speed. | Used - Good<br>Colorado |
| **Conveyor ( Bag Flattener )**<br>Asset ID: 8821<br>Slidell | **Inclined Bag Flattener Conveyor**<br><br>Slidell inclined flattener. Model # 1550. Travel length of belt/flattener is: 13' discharge section and 4.5' infeed section. Belt width is 19", frame width is 24". Overall physical dimensions are 17' x 3' x 9'. Flattener was in operation through early 2026. Now idled and stored in protected warehouse | Used - Good<br>Pennsylvania |

| Conveyor/Screw | 1 Items |
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| **Screw Conveyor, ss 10 ft**<br>Asset ID: AF5 | Conveyor for hopper. Stainless steel screw conveyor 9" OD x 118" long with 8" screw. Belt driven with 5 HP motor. Trough inlet x 4" pipe outlet with cylinder driven knife gate valve. | Used - Very Good<br>Illinois |

## Dryer/Belt — 1 Items

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|---|---|---|
| **Biomass Belt Dryer Gryphon**<br>Asset ID: 2042<br>Gryphon | **Gryphon Biomass Hot Air Belt Dryer**<br>• Gas fired recirculating counter current air dryer. Model A.318.<br>• Dryer section is 3 ft wide x 18 ft long.<br>• Evaporation rate (condensate rate) will be approximately 213 lbs/hr of water<br>• Used for drying hemp with inlet moisture of 50-80% and outlet moisture of 7% to 11% moisture running at 3,000 pouds per 24 hours inlet and approximately 1,000 pounds per 24 hours dry mass outlet.<br>• Natural gas burner rated at 1.5 MMBTU with all gas train valves, firing controls and Honeywell fire eye safeties. Supplemental electric heaters in each of the three sections.<br>• Air flow is by blower rated at 2500 scfm with VFD drive AB PowerFlex 753. AirPro Fan Type HPSM254 high pressure radial shrouded fan. 600 rpm serial 23894 40HP built on 2008.<br>• Six VFD drives in all Allen Bradley PowerFlex 525.<br>• Condenser coils.<br>• Includes infeed sifter and lid lift assembly for easy maintenance and operation.<br>• Includes fabricated feed belt 23.625" wide cleated belt.<br>• Full automation by Rockwell Allen Bradley and controls provided. Software plc controlled air volume, temperature and cycle time. Automated washing of chambers, air filter, and belt.<br>• CTS cooling tower and condenser unit is part of the package.<br><br>No need for baghouses, scrubbers, or exhaust stacks. See brochure in link for more information. Unit was purchased new in 2019 - only has 1,289 hours operation. Last used for hemp drying. Includes spares: (4) condenser filters, 1 dryer belt, bed skirts & spacers. Part of an entire CBD extraction system - enter PK6020 to see all components. | Used - Very Good<br>Northern US |

## Dryer/Compressed Air — 1 Items

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| **Air Dryer, Regenerative Desiccant**<br>Asset ID: B2098<br>Hankison | Hankison heatless regenerative air dryer Model DH-950. Rated at 590 scfm, 100 psig at -40 PDP. Desiccant activated alumina. S/N 3338-1-9505-13SD. Desiccant tanks ASME MAWP 250 psig at 200F. | Used - Good<br>Peoria, IL |

## Dryer/Flash Dryer — 2 Items

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| **Swirl Fluidizer Flash Dryer System Niro**<br>Asset ID: AF94<br>GEA Niro | **GEA Niro Swirl Fluidizer System - Flash Dryer**<br><br>Complete skid with inlet air gas heater, fluidizing slurry tank, controls. This is an agitated flash dryer. GEA Model 6.3 Mobile Unit, ID No. 128-1650-1-01 built in 2009. Stainless steel skid size 86" x 87" x 82" tall. Fluidizing slurry tank stainless is approx 3 ft dia x 3 ft tall with bottom scraped-wall blade agitator and outlet to screw conveyor.<br><br>• Air flow 450-630 kg/hr<br>• Inlet temp 100-350C<br>• Outlet temp 60-150C<br>• Water evaporation 0-55 kg/hr<br>• Max powder rate 100 kg/hr<br>• Max feed rate 150 kg/hr<br>• Gas supply natural gas or propane<br><br>Used for drying cellulose pastes prior to filtration. In feed tank, the vertical bottom driven agitator will disintegrate the viscous feed material into homogeneous feed. A specialized auger then pushes the slurry to the drying chamber. The Niro SWIRL FLUIDIZER™ offers a cost-effective solution for drying of pastes, filter cakes, and highly viscous liquids for obtaining a fine, homogeneous and non-agglomerated dry product – in one compact process step.<br><br>**See detailed presentation in the Document Links** | Used - Excellent<br><br>Illinois |
| **Vacuum Dehydration Unit**<br>Asset ID: 2087<br>IFS | **Vacuum Dehydration Unit**<br><br>Compact vacuum dehydration unit to remove free water, emulsified water, and minor impurities from oil. Designed for most lubricating, EHC and hydraulic fluids down to 150 ppm. Possible to use for dewatering used cooking oil (UCO) upon proper testing and approval. Standard features: 300 gph process flow rate, 5kW heater with programmable temperature controller, dry seal vacuum pump,, adjustable flow controls, skid mounted with casters, controls. 440v 3/60. These units are built to order - allow 10-12 weeks ARO. Photo is a catalog photo. | NEW<br><br>Michigan |

| Dryer/Rotary | 3 Items |
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| **Rotary Dryer System Dual Drum**<br>Asset ID: 8810<br>Aeroglide | **Complete Rotary Dryer System - 2 drums, 3 pass**<br><br>Stainless steel grade 409, late model rotary dryer system with cooling drum. The 3 pass rotary dryer drums continually lifts and showers the product through the moving air stream. System is based on dual (2) 13' X 60' triple-pass rotary drum dryers with trunnion and drives with controls, motors, including natural gas burners rated at 68 MMBTU/h with an 8:1 turndown, max thermal output of 42.200.000 kj/h, discharge cyclone, multi-clones, fans with motors, stack, all relating ducting and steel structure. These dryers are fired with natural gas or propane. Main cyclone at discharge of dryer has 3.66m diameter, secondary multicyclones (8/dryer) are 1.07m diameter each, stack is 37m above grade, Volumetric airflow rated 30.68 cubic meter/second. See motor list for complete list - dryer drum driven by 150 HP motor (2), exhaust fans 400HP motor (2), cooling exhaust fan 100HP<br>Original use was with wet distillers grain (corn) at 151,463 lbs/hr infeed at 67% moisture dried to 10% moisture for 21,071 lbs/hr output - see chart. Temp out of dryers is 185 F, and out of cooler is 25F above ambient. Evaporation rate is 45,439 lbs/hr (one dryer) | Used - Excellent<br><br>Southeast U.S. |

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| **Rotary Steam Dryer**<br>Asset ID: 5380<br>Davenport | 96 inch dia Davenport Rotary Steam Dryer. Used Rotary Counter Flow Steam Tube. Shell & tube: 304 stainless steel. 104" OD x SCH.10. Pitch 0 DEG to 32 DEG. 46'9 O.A.L. 30HP motor, 349 RPM. Batch capacity: 80,000 lbs./hr. Shell rated for 1 ATM of pressure @ 370F. Tube rating 175PSIG @ 370F. Steam Rating: 130PSIG. Manufactured by Davenport. Previous Use: PTA Dryer. | Unrated<br>Texas |
| **Rotary Steam Dryer ss**<br>Asset ID: PK-2347<br>Drying Solutions | **Rotary Steam Dryer stainless steel- Evap Rate 900 lb/hr**<br><br>Rated at 1500 lbs/hr capacity with co-current single-pass superheated steam. Approx conveying air feed 1,973 acfm at 266F to 288F. (Max inlet temp 680F). Last was running soybean meal<br><br>• Evaporation rate 900 lb/hr. Set for 65% moisture IN and 5% moisture OUT at 1500 lb/hr feed rate.<br>• Dryer drum size is 1800 mm dia x 14750 mm drum length (5.9 ft dia x 48.4 ft length). Co-current flow. MOC stainless steel 304L. Cup flights around the perimeter - hollow middle<br>• Natural gas fired burner with controls and fire-eye, Blower, belt drive. Rated at 7.3 MMBTU/hr<br>• This is a steam dryer set up for either steam injection or water injection. Steam heated by hot air interchanger to 680F. Steam usage 4087 lbs/hr at 266F (approx 25 psig)<br>• Cyclone and vertical condenser<br>• Drag conveyer and 3 screw conveyors<br>• All controls including plc and touch screen HMI built into panel<br>• Electrical 200 amp service 460v. Starters and VFD's are located in the control cabinet. There are 4 VFD's. 60HP blower, 60HP conveying fan, 40 HP burner, 40HP drum motor.<br>• Footprint of entire system 65.4 ft x 36.4 ft x 16.4 ft tall (19950 mm x 11110 mm x 5000 mm tall)<br><br>In excellent operating condition. Idled in mid 2022. Tested operation again for 2 weeks in Aug 2024. See drawings in LINK<br>**Price includes removal** and loading on your trucks. (no freight but we can quote for that if desired) | Used - Excellent<br>Iowa |

| **Dryer/Spray Dryer** | | **1 Items** |
|---|---|---|
| **Mini Spray Dryer**<br>Asset ID: 8825<br>Buchi | **Mini Spray Dryer Like NEW**<br><br>Buchi Mini Spray Dryer S-300 Advanced, 220°C with a two-fluid nozzle. Serial number: 1100142181. Power 2,300 maximum watt, 220/240 volts, 50/60Hz.<br>**Was only used one time**<br>Evaporation capacity: 1.0 L/h for H2O, higher for organic solvents<br>Final particle size: 1 - 60 µm<br>Yield: up to 70 %<br>See Links for details | Like New<br>Massachuetts |

| **Electrical** | | **5 Items** |
|---|---|---|
| **Air Core Reactors 2000 KVA**<br>Asset ID: B2094<br>Trench Electric | Air core reactors by Trench Electric, Canada. Dry type, air cooled, rated at 2000 KVA, system volts 13.8 kV, 60 Hz, 1 phase. Rated impedance 0.5 ohm. Built 1993. Serial numbers 117770-4, 117770-3, and 117770-6. Weight 2150 pounds each. Two assembled, one in pieces. Qty (3) - sold as a LOT | Used - Good<br>Peoria, IL |

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|---|---|---|
| **Disconnect 100HP**<br>Asset ID: AF91<br>Square D | Square D disconnect for 100HP vacuum pumps 460v. Quantity (2) - priced separately. | <br>Illinois |
| **Grow Lights**<br>Asset ID: V2214<br>Gavita | Gavita 1000 watt grow light. 120-240v AC | <br>Texas |
| **MCC**<br>Asset ID: MCC-1<br>Square D | MCC-1 Motor Control Center - Square D | <br>Illinois |
| **MCC**<br>Asset ID: MCC-2<br>Square D | MCC-2 Motor Control Center - Square D | <br>Illinois |

| **Electrical/MCC** | | **1 Items** |
|---|---|---|
| **Vacuum Starters Contactors, HV**<br>Asset ID: 2035<br>Allen Bradley | Double vertical section with (2) Allen Bradley vacuum motor starters 1520-V4DBDA-1. rated at 2500 - 7200v 400A. Equipped with AB power monitors 3000 and GE 369 Motor Management Relays and GE 737 Feeder protection relays. | Used - Very Good<br>Illinois |

| **Electrical/Motor** | | **17 Items** |
|---|---|---|
| **Motor**<br>Asset ID: M107<br>Marathon | Marathon electric motor. Frame 286T. 1765 RPM. 230/460V | Used - Good<br>Grant City, MO |
| **Motor**<br>Asset ID: M1012<br>Toshiba | Toshiba electric motor | Unrated<br>Grant City, MO |
| **Motor 100 HP**<br>Asset ID: M111<br>Pacemaker | Pacemaker 100 HP electric motor. Frame 405TS. 1730 RPM. 230/460V | Used - Fair<br>Grant City, MO |
| **Motor 100 HP**<br>Asset ID: M103<br>GE | GE 100 HP electric motor. Frame 405TS. 1780 RPM. 230/460V, 140/70A. | Used - Good<br>Grant City, MO |
| **Motor 30 HP**<br>Asset ID: H114<br>Marathon Electric Blue Chip | Marathon Electric Blue Chip 30 HP electric motor. EPFC enclosure, 3530 RPM. Built in 2010. Model JJ286TSTGP4001CDL. Frame 286TS, 230/460V, 72/36 FLA, 60 Hz. SF 1.15 continuous duty. Physical weight 205 pounds | Used - Very Good<br>Grant City, MO |

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|---|---|---|
| **Motor 30 HP**<br>Asset ID: M1005<br>Marathon | Marathon 30 HP electric motor. Frame 286TS. 3545 RPM. 230/460, 68.4/34.2A. | Used - Good<br>Grant City, MO |
| **Motor 40 HP**<br>Asset ID: H113<br>Marathon Electric Blue Chip | Marathon Electric Blue Chip Severe Duty 40 HP electric motor. NEW 3545 RPM. Built in 2005. Model CN324TSTGP4001CDL. 230/460V, 95/47.5 FLA, 60 Hz. Enclosure EPFC, Frame 324TS, continuous duty. Physical weight 584 pounds. | New, Old Stock<br>Grant city, MO |
| **Motor 40 HP**<br>Asset ID: M101<br>GE | GE 40 HP electric motor. Frame 324TS. 3565 RPM. 460V, 43.7A. | Used - Fair<br>Grant City, MO |
| **Motor 40 HP**<br>Asset ID: M102<br>GE | GE 40 HP electric motor. Frame 324TS. 3565 RPM. 460V, 43.7A. | Used - Fair<br>Grant City, MO |
| **Motor 40 HP**<br>Asset ID: M108<br>Pacemaker | Pacemaker 40 HP electric motor. Frame 404T. 1185 RPM. 220/440V, 147/73.5A. | Used - Good<br>Grant City, MO |
| **Motor 400 HP**<br>Asset ID: H2001<br>Siemens-Allis | Siemens-Allis electric induction 400 HP motor, vertical shaft. Model 145, S/N 1-5117-51041-1-1. Type FODV. Frame 507UP. 52.8 Amps, 4000V, 60 Hz. 1780 RPM. Includes 400W space heater. Last service was on cooling tower pump. The motor was rotated in August 2025 and it turns freely. | Used - Good<br>Grant City, MO |
| **Motor 450HP**<br>Asset ID: B2083<br>Marathon Electric | Marathon Electric 450 HP Motor, 460V, 60 Hz, 3565 RPM, Frame 449TSD | Used - Good<br>Peoria, IL |
| **Motor 50 HP**<br>Asset ID: M106<br>Marathon | Marathon 50 HP electric motor. Frame 365T. 1180 RPM. 230/460, 124/62A. | Used - Good<br>Grant City, MO |
| **Motor 60 HP**<br>Asset ID: M109<br>Pacemaker | Pacemaker 60 HP electric motor. Frame 404T. 1185 RPM. 220/440V, 147/73.5A. | Used - Good<br>Grant City, MO |
| **Motor 60 HP**<br>Asset ID: H109<br>Marathon Electric Blue | Marathon Electric Blue Max electric 60 HP motor. NEW, old stock. 3000 RPM. Model EVD 364THFS8046BT W. S/N WAA033158. Enclosure TEBC, Frame 364TC. 230/460V, 60Hz. Built 2007 - not used, instorage since then | New, Old Stock<br>Grant City, MO |
| **Motor 60HP**<br>Asset ID: M110<br>Pacemaker | Pacemaker electric motor 60HP 1200rpm | Used - Fair<br>Grant City, MO |

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|---|---|---|
| **Motors 1500HP**<br>Asset ID: 8827<br>Nidec US Motors | **New 1500 HP motors by Nidec US Motor, Inverter Duty**<br><br>Model Titan II. Steel cage, total enclosed fan cooled motor TETC. Manufactured by Nidec US Motors. Inverter duty 1500HP, 3 phase, 60Hz, 3585rpm, 4160 volt, 177.0 amp.<br><br>• Three available - priced separately<br>• New motors - idle since 2023 outside<br>• The TOTALLY ENCLOSED TUBE COOLED TITAN® motor type JT has a cast iron brackets and heavy fabricated steel frame construction with oversized grease lubricated anti-friction bearings. To ensure a high degree of corrosion resistance, steel tube construction is standard. Further, the top hat assembly is treated with a Vacuum Pressure Impregnation cycle of 100% solid epoxy coating all surfaces. The VPI system, along with other internal and external protective treatments, provides exceptional durability in hostile environments. The winding is constructed with full Class F materials and receives two cycles of 100% solid epoxy VPI. | New, Old Stock<br><br>Kansas |

| Electrical/Panels | | 7 Items |
|---|---|---|
| **Control Panels**<br>Asset ID: V2243 | Two stainless steel control panels with Allen Bradley PanelView touch screen and plc. New - never used. Built as reactor control panels Lot 116. Qty (2) - priced separately | Jacksonville, IL |
| **Electrical Boxes**<br>Asset ID: V2344 | Two enclosed electrical boxes. Formerly lot 117 &118. Priced for the set of (2) | Texas |
| **Fuse Panel 400A**<br>Asset ID: V2254<br>Square D | Square D fuse panel disconnect. Rated at 400A. 3 fuses, 480v 3/60 | Texas |
| **Fuse Panel 600A**<br>Asset ID: V2255<br>Square D | Square D fuse panel disconnect. Rated at 600A. 3 fuses, 480v 3/60 | Texas |
| **Heater Control Cabinet**<br>Asset ID: V2251 | Heater control cabinet | Texas |
| **Logic Control Panel**<br>Asset ID: V2252<br>Magnum Engineering | Control panel with cooler on side ready for your electronics and use. Mainly empty. Approx size 6' x 6' x 1' deep with (2) 32" doors | Texas |
| **Logic Control Panel**<br>Asset ID: V2253<br>Magnum Engineering | Control panel with cooler on side ready for your electronics and use. Mainly empty. Approx size 6' x 6' x 18"' deep with (2) 32" doors | Texas |

| Electrical/Switchgear | 2 Items |
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| **Switchgear 13.8 kV**<br>Asset ID: B2100<br>S&C | S&C metal-enclosed switchgear.13.8 kV, main bus 600 A. Three phase 60 Hz. Catalog number CDA-749682 | Unrated<br>Peoria, IL |
| **Switchgear, Gas Insulated 69kv (GIS)**<br>Asset ID: B2111<br>ABB | **Gas Insulated Switchgear (GIS) 69kv**<br>ABB switchgear 69kv - insulated gas, small footprint (GIS) with leak tight Sulfur Hexafluoride gas (SF6). Model ELK-04<br>• Two (2) 69kv distribution busses with disconnects,<br>• Eight (8) 72kv feeder circuit breakers, ELK-04<br>• Four (4) tie breakers<br>• Panel<br>• All inside protected building - never energized or used<br>See 16 page detail sheet attached in LINKS.<br>We can also offer the service as additional: remove, take back to shop, replace missing components and recondition with warranty.<br>Packaged back into original Hitachi shipping containers. | New, Old Stock<br>Illinois |

| Electrical/Transformer | | 5 Items |
|---|---|---|
| **Transformer 15 kva**<br>Asset ID: V3001<br>Square D | Square D Transformer. 15 KVA, 3 phase, 60 Hz. Primary 480v, secondary 240v. Model # NHA8058903, Serial # 1110719211.Category # EX15T6HCT. | Used - Very Good<br>Texas |
| **Transformer 30 kva**<br>Asset ID: V3002<br>Square D | Square D Transformer. 30 KVA, 3 phase, 60 Hz. Primary 480v, secondary 208Y/120v.. Model # PHA9586703, Serial # 1112421081.Category # EX.N30T3H. | Unrated<br>Texas |
| **Transformer (25kva)**<br>Asset ID: 7882<br>Hitachi Energy | **Transformer**<br>Liquid-Filled MTR Mini-Pak Padmounted Transformer- 25 KVA 2400VGY – 240/120V radial feed, one phase, 60Hz. Serial # 1LUJ250178772388. Includes bushings: loadbreak inserts, bushing wells and secondary studs. Fuses: partial range cl fuse in series with bayonet. Pressure relief valve. Manufactured by Hitachi Energy. Two available. Priced separately. | NEW<br>Missouri |
| **Transformer (50kva)**<br>Asset ID: 7883<br>Hitachi Energy | **Transformer**<br>Liquid-Filled MTR Mini-Pak Padmounted Transformer- 50 KVA 2400VGY – 240/120V radial feed, one phase, 60Hz. Serial # 1LUJ250178772392. Includes bushings: loadbreak inserts, bushing wells and secondary studs. Fuses: partial range cl fuse in series with bayonet. Pressure relief valve. Manufactured by Hitachi Energy. Two available. Priced separately. | NEW<br>Missouri |

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|---|---|---|
| **Transformer 47.7MVA ABB**<br>Asset ID: 8103<br>ABB | Transformer - Used 47.7 MVA by ABB (Asea Brown Boveri, Power T&D Company)<br>Made in: Saint Louis, MO<br>Type: 47.7 MVA Oil-filled transformer, Type SL, Non-PCP; Cu/Cu<br>Specifications:<br>• Three-phase, 60 Hertz<br>• Class: OA/FA/FA<br>• Windings: 11,500 GRDY/66,395 Volts, 13,800 Volts<br>• Capacity: 28,600/38,100/47,700 KVA<br>• Temperature Rise: 65°C average<br>• Impedance: 10.49% at 28,600 LVA, 115,000 to 13,800 Volts<br>• Test Levels: High Voltage: 550 KV; Low Voltage: 110 KV<br>• Oil Volume: 4,822 gallons | Unrated<br>Northeast US |

## Electrical/VFD — 2 Items

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| **VFD (LOT of 5HP and 1HP) Qty 15 NEW**<br>Asset ID: V7898<br>ABB | **VFD Variable Frequency Drives by ABB**<br>**Priced for the LOT of all 15** Sold as a package, ready to ship stretch wrapped on a pallet<br>• Variable Frequency Drive 1HP. Manufactured by ABB. Model # ACS355-03U-04A7-2. Input voltage 208/240V, 50/60Hz, 3PH. Output: 4.7 KV-A. New-old stock. Quantity (9) available,<br>• Variable Frequency Drive 5HP. Manufactured by ABB. Model # ACS355-03U-17A6-2. Input voltage 208/240V, 50/60Hz, 3PH. Output 19 KV-A. New-old stock. Quantity (6) available. | New, Old Stock<br>Jacksonville, IL |
| **VFD 7.5 HP**<br>Asset ID: AF90<br>SEW | SEW variable frequency drives (VFD) Movidrive. Inverter. SEW part number 08249571. Type MDX61B0055-5A3-4-OT. Size 5.5KW (7.5HP). Input 3x380-500v with 3HP output. Small footprint 105mm x 314mm weighing 2.8kg. Quantity (10) - priced separately | Used - Good<br>Illinois |

## Evaporator — 7 Items

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| **Dehydration Unit Oil Dryer 21 gpm**<br>Asset ID: 6227<br>Wintek | **Oil Dryer - Vacuum Dehydration Unit**<br><br>**Wintek Corporation Dehydration Unit. Like NEW - only 31 run hours!!**<br>**Evap Rate up to 23 lb/hr water**<br>This DeHy is a flash tower with condensate/receiver and vacuum system. Capacity feed content is designed for 12 to 21 gpm feed oil (5,492 to 10,000 lbs/hr) with up to 0.25% water and will dry to 0.02% water - based on soy oil modeled as a triglyceride. System consists of feed heat exchanger, a flash tank, a transfer pump, a pre-condenser, receiver tank with transfer pump, and a 10HP liquid ring vacuum system. Flash tower is cs 16 inch dia. Dehydration Unit is used to remove the water from your feed oil. When hot feed oil is exposed to a high vacuum, the water will flash into water vapor and be removed by the vacuum system. This system is skidded - removed and ready to load. Loading fee may apply depending on customer requirements and destination. See complete dehy design specs in attached file (link).<br>NOTE: This unit only has 31 working hours on it and was in working order in a biodiesel plant when idled in 2018. It has been moved outside to a laydown yard in 2023. Unit will need reconditioning. The manufacturer, Wintek, still supports this unit and can recondition it in their NJ factory. | New, Old Stock<br>Saskatchewan |
| **Evap System**<br>Asset ID: PK-6045<br>Unitech Titanium | Evaporator system rated at 45,000 lbs/hr. Unitech Titanium falling film evaporator manufactured in 1993 but unused until 2008 then operated for approximately 9 months. Includes Incoloy 825 vapor body, 15,862 SqFt heat transfer section with 872 Grade 2 Titanium 2 inch OD tubes x 36 ft long; and MVR compressor driven by a 500HP motor. Design train capacity is 92 GPM, distillate flow 83.95 gpm. This converts to 44,457 lbs/hr water evaporation. Price includes manual valves and selected ss304 and ss316 piping manifolds, and structural foundation for evap vessel and deaerator. Ladders, grating, and access steel also available. | Used - Excellent<br>Saskatchewan |
| **Evaporator System Quadruple Effect**<br>Asset ID: 8811<br>Dedert | **Dedert Evaporator System**<br><br>**Evap Rate 205,475 lbs/hr**<br><br>• Feed rate 264,496 Lbs.hr, Product rate 59,020 Lbs/hr<br>• Stainless steel 304L contact parts<br>• ASME pressure vessels<br><br>This evaporator is designed as a quadruple effect using live steam, flash process vapor, and process water as the heating medium. Originally designed for 265,000 pounds per hour of corn stillage. The first effect is designed using forced circulation type heat transfer surface. The 2nd, 3rd and 4th effects are designed using recirculated falling film type heat transfer surface. The final vapors from the 4th effect are condensed in a shell and tube type condenser supplemented by a vacuum pumps and motor. The entire system can be used for a biofuel, boi-diesel or other moisture reduction, drying and processing facility.<br>System footprint is approximately 25' wide by 90' long | Used - Very Good<br>Southeast U.S. |
| **Falling Film Evaporator**<br>Asset ID: 380-EQ-870<br>Unitech | Evaporator rated at 45,000 lbs/hr. Unitech Titanium falling film evaporator manufactured in 1993 but unused until 2008 then operated for approximately 9 months. Includes Incoloy 825 vapor body, 15,862 SqFt heat transfer section with 872 Grade 2 Titanium 2 inch OD tubes x 36 ft long; and MVR compressor driven by a 500HP motor. Design train capacity is 92 GPM, distillate flow 83.95 gpm. This converts to 44,457 lbs/hr water evaporation.<br>The system was evaporating water from canola isolate. Specific gravity was about 8 lb/gal. So Feed in was approximately 173 gpm (83,000 lb/hr) [feed pump is actually rated at 215 gpm] with 89 gpm (44,457 lb/hr) water evap = 84 gpm out (40,300 lb/hr).<br>This is the Evaporator and structure only - Part of Evaporator package PK-6045 and might not be able to be sold separately - Ask Us. For a list of all components, enter "pkevap" in the keyword search terms box. | Used - Excellent<br>Saskatchewan |

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| **Molecular Sieve Alcohol Dehydration Unit**<br>Asset ID: 1760<br>Wintek | **Molecular Sieve Dehydration Unit (MSDU)**<br><br>For drying liquid phase alcohols or solvents by molecular sieve dehydration. Wintek Model MSDU-M02.05, serial 110401.<br>The unit is steam regeneration, 600 volt, 3 phase, 60Hz. The capacity is 2 gallons per minute. Includes a 10HP vacuum pump and a 1HP transfer pump. Complete system wired and piped, mounted on skid.<br><br>• Operation<br>This Liquid Phase MSDU Design passes a liquid stream of wet alcohol or solvent through a column filled with molecular sieve beads in a process known as molecular sieve dehydration. The bed of sieve beads adsorbs water molecules from the liquid as it passes through it. This occurs due to polar attraction. The internal surfaces of the molecular sieve adsorbs more of the water as the bulk liquid flows through the column. This continues until the molecular sieves are at capacity, and dried alcohol product (or solvent) exits the column. This process continues until the sieve becomes saturated with water, at which time the molecular sieve must be changed, or regenerated. Molecular Sieve Dehydration (MSDU) can provide considerable energy savings (up to 50%) compared to distillation<br><br>NOTE: This unit was in working order when idled in 2018. It has been moved outside to a laydown yard in 2023. Unit will need a complete reconditioning. The manufacturer, Wintek, still suports this unit and can recondition it in their NJ factory | Used - Fair<br>Saskatchewan |
| **Thin Film Evaporator Dryer**<br>Asset ID: 7135<br>Cherry Burrell | Cherry Burrell Thin film evaporator 36-144. Turba Film Processor wiped film evaporator. Scraped surface area 106 sq ft. Model 36-144, S/N 35465EA, Mfg # A4154. All contact surfaces are 304 stainless steel. Has 2 sections, designed for steam in jacket. ASME MAWP shell FV at 400F, jacket 150 psig at 400F. Nat'l Bd# 927. Belt Driven by 40 HP motor 1182 rpm in/260 rpm at dryer (missing motor). Capacity depends on moisture and feed - on lecithin (gums) drying it was doing 10 tpd (833 #/hr). Physical size 36" dia x 144" tall for 252 inches OAH. Weight of dryer only empty 13,200 pounds. Equipment has been removed and is ready to load on your truck - price includes removal & loading. We can also offer in reconditioned state. | Used - Fair<br>Bethany, MO |
| **Thin Film Evaporator Dryer**<br>Asset ID: 7141<br>Cherry Burrell | Cherry Burrell Thin film evaporator 36-144. Turba Film Processor wiped film evaporator. Serial no. A4156. Scraped surface area 106 sq ft. Model 36-144. All contact surfaces are 304 stainless steel. Has 2 sections, designed for steam in jacket. ASME National Board # 929., ASME MAWP shell FV at 400F, jacket 150 psig at 400F. Direct Driven through a Nord 6.74:1 gear reducer by 40 HP motor 1182 rpm in/260 rpm at dryer. Has a standard mechanical seal. Capacity depends on moisture and feed - on lecithin (gums) drying it was doing 10 tpd (833 #/hr). Physical size 36" dia x 144" tall for 252 inches OAH. Weight of dryer only empty 13,200 pounds. Equipment has been removed and is ready to load on your truck - price includes removal & loading. We can also offer in reconditioned state. | Used - Fair<br>Bethany, MO |

| Filters | 3 Items |
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| **Bag Filter**<br>Asset ID: BDFB-001<br>Pall Filter Specialists | Bag Filter - Pall Filter Specialists 150 psi @ 500F MAWP, MDMT <20F @150 psi S/N 81739 FSPN-1100 #4 C/S<br>Illinois |
| **Bag Filter**<br>Asset ID: BDFB-002<br>Pall Filter Specialists | Bag Filter - Pall Filter Specialists 150 psi @ 500F MAWP, MDMT <20F @150 psi S/N 81728 FSPN-355 #4 C/S<br>Illinois |
| **Vertical Leaf Filter**<br>Asset ID: VLF-113<br>LEEM | Vertical Leaf Filter 3.58 feet x 7.5 feet, 560 capacity, Model VLD-160-9, S/N 25133, 90 psig<br>Illinois |

# S4M Asset Catalog

Listed in Category Order. Click on an Asset Name for more details.

| Filters/Bag Filter | | 5 Items |
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| **Bag Filter**<br>Asset ID: 8854<br>Klear | Multiple Bag Filter by Klear. Connections 8” 150# inlet/ outlet;. Has Quick Change Head, Service Pressure Rating - 150 PSI, No. of Bags – 8. An 8-bag industrial multi-bag filter housing typically handles a maximum flow rate of 1,500 to 2,000 GPM (gallons per minute) (or up to roughly 320 m³/h), using eight standard Size #2 filter bags (7" diameter by 32" length) Must be verified by opening up filter housing. | Used - Good<br>Alberta Canada |
| **Bag Filter ss with platform**<br>Asset ID: 2101<br>Ess Corp | Stainless Steel Bag Filter with platform, Model # BG1122FHJSS, year built 2003. Uses #2 bags x 30". Certified by ESS Corp. MAWP 800 gpm maximum flow rate /150 psi at 200 Fahrenheit. Serial # 2046, Includes platform and handrail shown in photos - size approx 3 ft x 4 ft. | Used - Good<br>Illinois |
| **Bag Filters 4" ss**<br>Asset ID: 8817<br>PRM Filtration | **Bag Filter NEW 4-Bag with 4" Connections**<br>NEW Bag Filter 4" inlet / outlet. Manufactured by PRM Filtration. Model BFHBFM4SSXV2. Rated 150 psig / 525 gpm. Uses (4) #2 size filter bags (7-1/16" dia x 32" L). Easy open top with toggle bolts and handwheel.. In stock - ships immediately, subject to prior sale. Price includes shipping and delivery to areas of the US from the middle to Eastern US. Delivery to West of that will be slightly more. Qty (4) available ( priced separately ) | NEW<br>North Carolina |
| **Filter Bags - Qty 155 Size 2**<br>Asset ID: H2036 | Filter bags for polish filter, size #2. There are 6 boxes of 25 bags each. P2S Polyester Felt Filter Bag. Bags measure 2 ft 5 in long. Priced for the LOT. | New, Old Stock<br>Grant City, MO |
| **Multi Bag Filter System 1200 gpm**<br>Asset ID: 8829<br>Eaton | **Multi Bag Filter Housing System**<br>New - never used<br>7 filter bag housings on a common manifold. Model M-TBF-0702. This was custom built with a 4" manifold. There are seven x 2" flanged Bag filters. Takes #2 long bags. Quick opening lids with lugs. Flow rate at 1,233 GPM. | New, Old Stock<br>Colorado |

| Filters/Baghouse Dust Collector | 2 Items |
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| **Baghouse Dust Collector 62sf**<br>Asset ID: 8121<br>MAC | **MAC Baghouse Dust Collector - very low hours**<br><br>MAC Baghouse dust collector. Model 54ST9. Serial # 161448-006-1. Used only for about a week for a research project - idled outside.<br><br>• Mounted on structural frame with MAC MD20 airlock and 0.75 HP motor.<br>• Filter includes (9) 16 oz polyester-dacron bags w/ ground wire and galvanized cages providing 62 sq ft surface. Bags change from clean air side.<br>• Air to dust ratio of 4:1 at 250 cfm.<br>• Baghouse dimensions 24" x 24" x 6 ft tall<br>• Interior contact areas coated with epoxy<br>• See drawing in Links<br><br>Type ST dust collectors utilize bag media. A Mac baghouse type ST is a square baghouse-type dust collector that uses fabric filters to remove dust, particulates, and pollution from the air. (Square Top-Removal) - top removal. The filter media is installed and removed through the clean air plenum of the filter. Has a hinged top door to allow clean air access to the filter media | Used - Good<br><br>South Dakota |
| **Baghouse Filter Silo 4300 sf**<br>Asset ID: cp101<br>Kice | Baghouse Filter, used. Kice model CR288-12 built 2006. Has 288 filter bags with cages - bag size 4-3/4" x 144" long. (Approx 4300 sf surface area). Baghouse size 12 ft dia. X 38 ft tall with 60 degree cone, partially insulated. On steel structure 14 ft x 14 ft x 9 ft tall. OAH approx. 45 ft tall. Carbon steel. With 3 ft screw conveyor at outlet. We have blower fan that went on this system - avaiable for extra cost - see asset cp102. NOTE: Baghouse system has been removed - stored at crane yard near Winnebago, MN. The optional Kice 60 HP blower system and ss stack (25,000 scfm) is in separate location (Marissa, IL). Baghouse filter shipping details: 13'-11" x 13'-10" x 44'-10 1/8 OAH, weight empty 30,500 pounds - allow 35,000 pounds. See links for baghouse filter drawing. We also have operating manual and wiring diagram + erection tips from Kice. Price quote for baghouse silo only. | Used - Good<br><br>Winnebago, MN |

| **Filters/Belt Dewatering** | | **2 Items** |
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| **Belt Dewatering Filter Press 1.2 meter**<br>Asset ID: 1234<br>Ashbrook | **Klampress Belt Filter Press**<br><br>Dewatering, desludging filter press - Model KP-1. Mfg by Ashbrook.<br>Part # KP000586, MPS number 20407, serial number 66448-1765. Belt size 59'-11" long x 47.25" wide.<br><br>• Includes hydraulic unit<br>• Has spare main belt<br>• Idled in 2022 - Still installed<br>• See drawing for all dimensions<br>Belt presses are a common type of mechanical dewatering equipment used to dewater most biosolids generated at municipal wastewater treatment plants and many industrial applications. Belt presses are used to remove water from liquid wastewater residuals and produce a non-liquid material referred to as “cake”. The Belt Filter Press is a broadly applicable product for dewatering municipal biosolids and industrial sludges. | Used - Good<br><br>Iowa |

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| **Dewatering Belt Press**<br>Asset ID: 8558<br>Frontier | **Dewatering Belt Press**<br><br>Frontier dewatering belt press. Model FTXI-4700. Serial # 0182.<br>Dewatering belt press delivers reliable solid-liquid separation & effective sludge or slurry dewatering. Ideal for use in wastewater treatment, mining, food processing and the chemical industry.<br>Technical Data:<br>• Belt Width- 47 inches<br>• 3HP motor<br>• Spray water flow- 35 to 45 GPM<br>• Spray water pressure- 100 to 120 psig<br>• Air flow @ 100 psig / 2 scfm<br>• Main air pressure- 100 psig<br>This belt press has been removed and is located in protected warehouse. Price incudes loading on your truck. Any special handling or crating/skidding will be extra. | Used - Good<br>New York |

| Filters/Cartridge Filter | | 3 Items |
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| **Cartridge Filter Vessel**<br>Asset ID: 7899<br>Champion Process | **Cartridge Filter Vessel**<br><br>Horizontal filter vessel with 19 elements for coalescing or particle cartridges. Max flow 7,000 gpm gasoline and 5,000 gpm water. ASME MAWP 200 psig at 100F.. Size 36" dia with 12" Inlet. For 6" dia cartridge filters of 40", 60" & 80" long. Particle filter cartridges are normally 6" dia x 80" long. Coalescing cartridges are normally 6" dia x 40" long. On saddles and steel skid. Used but in good condition. | Used - Good<br>Texas |
| **Cartridge Filters**<br>Asset ID: FC-1513 | Cartridge filters, material stainless steel 304. Has . 4" inlet and 4" outlet. Filter specs are approximately: hold (20) two inch cartridges that are 40" long. Diameter on filter is 16 inches. OAH is 48" ( 44" to the first lip ). Filter is on angle iron legs 4" tall. Quantity (2) - priced for the set | Grant City, MO |
| **Dust Cartridge Filter 129sf**<br>Asset ID: AF11<br>Wam | Wamflo stainless steel cartridge filter for powder. Type FNC2J12PPOY, serial 11-FN-13-0004866. Size 24" dia x 36" tall on ss skid. Has 8 elements x 920mm long. Filter elements are pleated non-woven polyester. Filter surface area is 12 sq m (129 sf). Self-cleaning - uses compressed air countercurrent cleaning system with timer. Manufactured by Wam. | Used - Very Good<br>Illinois |

| Filters/Coalescer | | 2 Items |
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| **Coalescer Decanter ss**<br>Asset ID: 7308<br>Par Piping & Fabrication | Coalescer. Horizontal 800 gallons. Material stainless steel 316. Size 42 inches ID. ASME MAWP 15 psig at 250F and 75 psig at -20F. Last used in biodiesel service as wash system decanter VC 4053 and VC 4058. Qty (2) priced separately | Used - Excellent<br>Moberly, MO |
| **Filter**<br>Asset ID: 31-FL-244<br>TM Industrial | Vertical single stage filter, 10 micron, carbon steel, 3" pipe in/out top entry. Designed for 101,940 #/hr (205 gpm) solvent with 0.2 PPMW solids, 5 PSID. MAWP 450 psi/FV @350F, Nat'l Bd# 6166, s/n 6171. Used as solvent filter - like new. Mfg by TM Industrial in 2009, used 42 days. | Used - Excellent<br>Soperton, GA |

| Filters/Membrane | | 3 Items |
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| **Membrane Filter Press 1000sf**<br>Asset ID: 5547<br>Industrieterrein Belgium | **Membrane Filter Press** 6 bar (90 psi) and 1000 sf surface area. With hydraulic press and polypropylene plates. Supplied by DeSmet, built by Welders. Built 1985. Model OMF-1200, S/N 81630. 1000 square ft. filter area. 3" inlet/outlet. 51" W x 24' L x 90" H. Bed is 15' long. Uses 47" x 47" x 3.5" polypropylene plates. 64 plates included. Built for 6 bar (90 psi). 5.5kW, 440V, 3 Phase 50 Hz. Ram Info: Model CE 200.140.900KT5A. Co. No. 406383. Design No. 114357C. 900mm length. Includes manual for installation, operation, and maintenance. This filter will need new controls - we can furnish if desired. Price includes removal & loading. Available immediately. | Used - Fair<br>Kingston, Jamaica |
| **Membrane Nanofiltration System**<br>Asset ID: V2267<br>SciPhy | **SciPhy X-Spiral 2.5 Solvent Recovery Nanofiltration System Like NEW - Still in Crate**<br><br>The SciPhy Systems X-Spiral Membrane System, (which processes 60 gallons per hour) performs bulk solvent recovery, dewaxing, and color remediation for botanical extracts using cross-flow nanofiltration. The membrane skid, still in crate, includes compressor and pneumatic motor and tank. This is an. affordable nanofiltration membrane recovery system (OSN).<br>***This machine is in excellent shape - selling as used but has only been used less than a dozen times***<br><br>• Complete Control Over Product Purity: The X-Spiral gives operators full control over concentration of solution.<br>• No Solvent Phase Change: Creates greatly reduced energy use that lowers operating expenditure and raises profit margins.<br>• All In One Skid Including Utilities: No boiler or cooling tower necessary means greatly reduced startup and commissioning time.<br>• Highly Efficient: Unique dual pump system only uses a third of the energy of other single pump systems.<br>• Full Parameter Control. Design features and mounted HMI provide ease of use and optimal workflow.<br>• Affordable Membranes. X-Spiral uses lower cost membranes than many competitors.<br><br>**Key Functions<br>**<br><br>• Bulk Solvent Recovery: It removes over 80% of heating and cooling requirements by continuously separating liquid solvent from dilute extract solutions via membrane filtration rather than a traditional phase-change thermal boiling process<br>• Dewaxing: It operates above freezing temperatures (0°C / 32°F), which removes the need for separate low-temperature chilling, complex batch winterization, and extra labor<br>• Color Remediation: It filters out color impurities in a single pass without requiring powder or granular media changeouts.<br><br>Shipping dimensions: 2 pieces<br>Membrane skid already on a pallet 45” x 49” long x 54” tall, weight 567 pounds<br>Also box of replacement filters size 16 x 16 x 50” long, weight 50 pounds<br><br>SHIPPING. Best to ship crate LTL, and send box via USPS or UPS. | Like New<br>Jacksonville, IL |

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| **Reverse Osmosis Membrane Filter**<br>Asset ID: 2028A | **Reverse Osmosis RO Membrane Filter System**<br><br>Material specs are 316 stainless. Tanks are 304 stainless. Includes controls and HMI. Designed for flow rate of 50-60 gpm at 150 - 250 psig. Membranes not included. Last used on well water - removed and stored in controlled warehouse, ready for loading<br>**Three stage**<br><br>• Stage One has (18) 4" vessels, 5 elements per<br>• Stage Two has (18) 4" vessels, 5 elements per<br>• Stage Three has (12) 4" vessels, 5 elements per<br>**Includes 6 pumps. All 6 pumps driven by VFDs**<br>• (3) recirculation pumps (40HP, 40HP, 20HP)<br>• (3) feed pumps (30HP each)<br>**Tanks**<br>• One Feed tank 500 gallons and two smaller tanks (perm & conc) at 120 gallons each.<br>**Controls and HMI incuded** | Used - Very Good<br><br>Kansas City, MO |

| Filters/Microfiltration | 1 Items |
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| **Microfiltration**<br>Asset ID: 1922<br>Memtek | **Memtek EFC 3600 tubular microfiltration system by Siemens**<br><br>• (3) microfiltration skidded modules in this set as shown.<br>• Crossflow tubular membranes pvc<br>• Concentration FRP tank 8 ft dia x 9 ft tall (3300 gallon capacity).<br>• Mix Tank, FRP with top entering agitator<br>• Circulation pump is centrifugal 50 HP 460/3/60 rated at 1060 gpm.<br>• Overall footprint of system is approx 43 feet x 25 feet wide x 12 feet tall. Each skid is 33 ft x 8 ft x 12 ft tall.<br><br>The basic EFC system is a skid-mounted package consisting of membrane modules, recirculation pump, in-place cleaning loop, backpulse mechanism, instrumentation and controls. The rugged fluorocarbon membranes are non-plugging, abrasion and chlorine resistant. The skid-mounted design is compact and requires minimal floor space. The Memtek® E-Series systems incorporates proprietary crossflow tubular membranes which remove precipitated contaminants and produce a high quality filtrate suitable for discharge or further treatment.<br>Please note the price incudes removal and loading - contractor quote is budgetary until scope clearly defined. Price may vary based on scope. We can also deliver to you. | Unrated<br><br>MN |

| Filters/Plate & Frame | 3 Items |
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| **Filter Press 240 sq ft**<br>Asset ID: 8813<br>M W Watermark | **M W Watermark Filter Press**<br><br>** 30 poly plates 630mm x 630mm (2 ft x 2 ft) plus front & back plate.** Used cloths<br>Surface area 240 sq ft. Hydraulics air driven, 2" feed pipe and 1.5" discharge piping<br><br>• Max feed pressure: 100psi, Air supply pressure: 100psi<br>• Hydraulic clamping pressure: 35,000psi, Relief pressure: 4,100psi<br><br>• Serial # FP01199. | Used - Good<br><br>Colorado |
| **JWI J-Press Filter Press 3075 sq ft**<br>Asset ID: 1088<br>Evoqua Water Technologies | **JWI J-Press 1500 mm**<br><br>Evoqua Water Technologies (now part of Xylem) 1500 mm J-Press. Model #1500N32-76-150SYLC. Filter area 3075 sq ft. 76 plates. Cake thickness 32 mm, Capacity 150 cu ft. Low Operating Hours. Less than 60 days in operation.<br>The J-Press filter press is one of the most versatile dewatering devices on the market, being used in a wide variety of industrial and municipal applications. The J-Press filter press can be used to recover both solids and liquids from a waste or process stream. With superior materials of construction, the J-Press filter press is especially useful in the dewatering of aggressive acid and alkali suspensions. | Used - Excellent<br><br>Illinois |
| **Plate and Frame Filter Press 2362 sf**<br>Asset ID: F3000<br>McLanahan | **McLanahan Recessed Plate Filter Press 2362sf Like NEW**<br><br>• These 4 presses were installed and tested - never ran in production<br>• Polypropylene plates - plate size 2m x 2m (approx 6.5 ft x 6.5 ft).<br>• Two presses have 151 plates for 1961 sq ft surface area. Press model pe035e34 (Membrane)<br>• Two presses have 180 plates for 2362 sq ft surface area. Press model pe035e42 (Recessed Plates)<br>• Pressure rating at 200 psi<br>• Approx size 843 inches long x 109 inch wide x 169 inch tall, weight each about 140 tons<br>• Discharge opening 89 inch x 613 inch<br>• Each press has integral hydraulic system<br>Overhead beam design. The Overhead Beam style results in faster opening and closing for greater production and better cake release in tailings applications. It also provides larger plate openings for better cleaning and maintenance access. Unlike the traditional plate and frame presses, McLanahan's Filter Press line features modern recessed plates or membrane plates, both of which create a chamber for dewatering the slurry without trapping the cakes within the frames. This allows the dewatered cakes to discharge more easily than with traditional plate and frame presses. McLanahan's membrane filter plates offer higher production rates for compressible slurries or slurries that require a cake wash or cake blow.<br>**Priced for the LOT - Qty (4) presses** | New, Old Stock<br><br>Indiana |

**Filters/Pressure Leaf** — **7 Items**

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| **Filter Press 86 sf Vertical**<br>Asset ID: 2021<br>Sharplex | Sharplex vertical filter presses with structural steel frames. Pressure leaf filters. Capacity 8 sq meters (86 sf) 6 bar at 150 C (90 psig at 300F). There are 3 of these filters - and a place in the structure for one more. Includes some leaves but new sets will have to be purchased. There are some instruments, valves, and small polish filters on these skids surrounding these filter presses - they are included. Includes the 16" butterfly valve on 2 of these filters. Quantity (3) filters in (2) structures. Package - All included in quoted price. Loading on your truck is free. | Used - Fair<br>Iowa |
| **Filtration Skid - Pilot Size NEW**<br>Asset ID: 7467<br>Leem | **New Filtration Skid - Pilot Size**<br><br>**Stainless Steel Skid mounted self contained filter skid. All wetted parts stainless steel 304**<br>Leem Model 24-MVS-40 Vertical Tank, Vertical Leaf, Pressure Leaf Filter Skidded Unit. MAWP ASME and stamped - rated for 90 psig at 300F & Full Vacuum.<br><br>• Filter vessel is 24" outside diameter with (6) 5-Ply Riveted filter leaves with PZ-80 outer filter cloth constructed of type 316ss on 3" spacing affixed to a common 304ss manifold pipe for 40 square feet (3.716 m2) of filter area. Constructed of type 304 stainless with top & bottom swing bolt closures, top to have a davit and hydraulic jack cover lift for ready access to the filter leaves and hinged bottom cover with a counterweight to facilitate filter cake removal.<br>• Includes all necessary ball valves, gaskets, and piping<br>• Slurry tank - 160 gallon pre-coat tank, motor & pump unit: 1x2-8 pump, 3500 RPM, 5 HP; Agitator: Neptune model NO. JG-4.0, gear drive mixer<br>• Control panel mounted to skid.<br>• Entire assembly mounted to 304 SS support skid.<br><br>Depending on the product being filtered, the amount of solids, and temperature of the product, the flow rate can vary through the filter. With a typical veg oil product with little solids (maybe 1-2%) the flow rate can be as high as 3,000 to 4,000 PPH. If used for tallow or other fats and oils that may have larger amounts of solids, the flow rate can drop to 2,000 PPH through the filter.<br>Please allow 14-16 weeks for delivery ARO. Note: We can offer this unit as a **Rental** on a per month basis, first come, first served. | NEW<br>New Jersey |

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| **Filtration Skid - Pilot Size Used**<br>Asset ID: 8809<br>Leem | **Used Filtration Skid - Pilot Size**<br><br>**Stainless Steel Skid mounted self contained filter skid. All wetted parts stainless steel 304**<br>Leem Model 24-MVS-40 Vertical Tank, Vertical Leaf, Pressure Leaf Filter Skidded Unit. MAWP ASME and stamped - rated for 90 psig at 300F & Full Vacuum.<br><br>• Filter vessel is 24" outside diameter with (6) 5-Ply Riveted filter leaves with PZ-80 outer filter cloth constructed of type 316ss on 3" spacing affixed to a common 304ss manifold pipe for 40 square feet (3.716 m2) of filter area. Constructed of type 304 stainless with top & bottom swing bolt closures, top to have a davit and hydraulic jack cover lift for ready access to the filter leaves and hinged bottom cover with a counterweight to facilitate filter cake removal.<br>• Includes all necessary ball valves, gaskets, and piping<br>• Slurry tank - 160 gallon pre-coat tank, motor & pump unit: 1x2-8 pump, 3500 RPM, 5 HP; Agitator: Neptune model NO. JG-4.0, gear drive mixer<br>• Control panel mounted to skid.<br>• Entire assembly mounted to 304 SS support skid.<br>• Comes with two sets of screens a) PZ-80 outer filter screening 316ss, and b) 24 x 110 mesh stainless<br><br>Depending on the product being filtered, the amount of solids, and temperature of the product, the flow rate can vary through the filter. With a typical veg oil product with little solids (maybe 1-2%) the flow rate can be as high as 3,000 to 4,000 PPH. If used for tallow or other fats and oils that may have larger amounts of solids, the flow rate can drop to 2,000 PPH through the filter.<br>This unit was used as a rental unit but has been completely checked by the factory to ensure good working order. | Used - Very Good<br>New Jersey |
| **Pressure Leaf Filter Horizontal 412 sf**<br>Asset ID: 2025B<br>Industrial Filter | Reconditioned Industrial Filter Horizontal pressure leaf filter press, Model D, Series 60-4-16, Type 122.902, Filtration area 412 sq ft. Tank dia: 60 inches dia Includes Set of 16 filter elements (leaves) 5-Ply with wire mesh, All stainless steel leaves. Used leaves in great condition. Hydraulic power pack with oil reservoir and 5 HP pump, basic controls to open/close bundle of leaves and door. Pneumatically operated vibrator. Hydraulic cylinders with oil piping. A-frame and beams are included. Unit will be sandblasted, primed, and final painted.. Delivery approx 4-5 weeks. Quantity available (2). Priced separately, discount offered if both are purchased. | Reconditioned<br>Texas |
| **Pressure Leaf Filter Horizontal 516sf**<br>Asset ID: F20820<br>Industrial Filter | Horizontal pressure leaf filters - filter shells and cylinders only<br>Industrial filter press (used), Series 60-6-20 Horizontal pressure leaf filter. Has 516 sf filtration area. Built for a project in 1994 and never used. Note that these are NOT reconditioned - will need refurbishment. Type 122.902, Serial F-20818. ASME Nat'l Bd# 3627 , rated at 70 psi at 310F. No A-frame or trolleys. No hydraulic power pack. No filter leaves. Approximate size 6 ft wide x 15 ft long x 8 ft tall, Empty weight 6800 pounds. See LINK for drawing of a representative filter - not the exact one. These are single filter units, not head-to-head. Price quoted is As Is loaded on your truck. NOTE: We actually have (4) of these filter shells. {F20818, F20819, F29820, F20821) - priced separately.<br>We can recondition, add filter leaves, and add hydraulic unit if desired for extra | Used - Good<br>Texas |
| **Pressure Leaf Filter, Vertical 250sf**<br>Asset ID: F7239<br>Mahle | Mahle vertical pressure leaf filters. Model VPLF 1000-24/1500. Has 12 filter leaves for surface area of 24 sq m (258 sf). Can hold cake volume 530 dm3. Tank is cs, leaves are ss 5-ply. Physical size 1000 mm dia x 1500 mm element height., weight 1190 kg. Serial No. 90570, ASME Nat'l Bd# 570 rated at MAWP 87 psi @ 302F. Built 2009. Used as cold soak clarification filters for biodiesel. Idle since 2022. Qty (2) - priced separately | Used - Very Good<br>Moberly, MO |
| **Vertical Pressure Leaf Filters**<br>Asset ID: R258<br>FFEC | Vertical pressure leaf filters. Size 3 ft dia x 60" tall. Has 18" discharge butterfly.Last used as Bleach Filters. Idle since 2006. Quantoty (2) priced separately | Used - Fair<br>New York |

# S4M Asset Catalog

Listed in Category Order. Click on an Asset Name for more details.

| Filters/Reverse Osmosis | | 2 Items |
|---|---|---|
| **Reverse Osmosis Unit**<br>Asset ID: V2213<br>GrowniX | Dual element reverse osmosis unit (RO), GrowniX | <br>Texas |
| **RO Reverse Osmosis System**<br>Asset ID: 1923<br>Siemens | **Siemens reverse osmosis system (RO)**. Two identical RO systems - each arranged in a 3-stage 5-3-2 array. Designed to treat process tertiary effluent water and supply demineralized water. Flow is 190 gpm at 55 psig. Filter cartridges with 5 micron pore size protect the membranes. The membranes reduce the total dissolved solids (TDS) of the incoming stream of 14,309 mg/l to 138 mg/l in the final product water. The membranes also reduce the TOC content by >80%. Has 4" inlet, 3" outlet permeate pvc flanges. The RO pump is designed for 190 gpm at 410 Ft TDH and is driven by a 75 HP motor 480v 3/60. Each RO has its own controls but the VFD is not included. Built in 2007, decommissioned in 2011. Still installed. Special note: Qty (2) completely separate systems - priced separately. If both systems are bought, we can give a $10,000 discount from the total. Please note the price includes removal and loading - contractor quote is budgetary until scope clearly defined. Price may vary based on scope. We can also deliver to you. Spare set of membranes available. | Unrated<br>MN |

| Filters/Special | | 1 Items |
|---|---|---|
| **Seitz Filter 3 sq ft**<br>Asset ID: 2060<br>Seitz | Seitz Enzinger Noll filter press. Model EF60/65CB serial no. 963048 rated at 6 bar (90 psi). Removable filter plate, Surface area 0.29 sq m, 100 liter. Construction ss316 stainless steel. Chamber 24" dia rated at 6 bar (87 psi) jacketed for 6.5 bar (94 psi) with manual screw lift. Built 1989. Note: This filter had a chiller no longer available. Part of an entire CBD extraction system - enter PK6020 to see all components. | Used - Very Good<br>Northern US |

| Filters/Strainer | | 2 Items |
|---|---|---|
| **Basket Strainer**<br>Asset ID: 6003<br>Fluid Engineering | Fluid Engineering Series 105 Simplex Strainer. Cast 316 Stainless Steel. S/N 3100. 150 max pressure. Size 3. | Unrated<br>Grant City, MO |
| **Motorized Strainer**<br>Asset ID: 7161<br>Fluid Engineering | Fluid Engineering Strainer Model 793, S/N 2919, Size 10, Max Pressure 150, Temp 32-150F, SS Mesh Screen, 1/16th in or 1575 Micron Equivalent | Used - Good<br>Grant City, MO |

| Gear Reducers | | 7 Items |
|---|---|---|
| **Expeller Vertical Hopper Feeder Drive**<br>Asset ID: 6015<br>Anderson | Rebuilt Vertical Hopper Feeder Drive for 33 or 55 DUO Expeller<br>• Thrust Unit Housing, cleaned, Sandblasted and Primed.<br>• Thrust bearing.<br>• Front and Back End Bearings.<br>• Crown & Gear set.<br>• Seals and Gaskets. | Unrated<br>Ft. Worth, TX |
| **Gear Box for Paddle Mixer**<br>Asset ID: H117 | Gear box for double shaft paddle mixer. Rebuilt. | Unrated<br>Grant City, MO |

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|---|---|---|
| **Gear Reducer, Right Angle**<br>Asset ID: GR103<br>Marley | Marley Gear Reducer, series 27A. Ration 8.66/1. Serial # 10976, with Marley fan blade clamp fastener. For 12 blades. Originally a right angle gearbox for a cooling tower - can be used for any right angle gear reducing by taking off the top fan blade holder bracket. Has been reconditioned - ready to run. | Reconditioned<br>Grant City, MO |
| **Gear Reducer, Right Angle**<br>Asset ID: GR104<br>Western Gear | Gear Reducer by Western Gear Corporation. Ration 8.42-1. Frame FWD-55, sn# 654. Set up for 6 blades. Originally a right angle gearbox for a cooling tower - can be used for any right angle gear reducing by taking off the top fan blade holder bracket. Has been reconditioned - ready to run. | Reconditioned<br>Grant City, MO |
| **Gearbox, Falk**<br>Asset ID: B2113<br>Falk | Falk Gearbox, Inline speed reducer. Includes double chain sprocket. Model 1080FZ2A s/n 95-0A0584-01. Input 1750 rpm ratio 25.63, Output 68.3 rpm. Rated 40 HP. Shaft size input 2-1/4, output 3-1/2". Chain sprocket D200-18H | Unrated<br>Peoria, IL |
| **Gearbox, Falk**<br>Asset ID: B2103<br>Falk | Falk Gear reducer Model 2100FC2AC, s/n 06-031686-01. Input rpm 1750, ratio 17.29. output 101 rpm. Rated 309 HP. Includes double chain sprocket | Used - Good<br>Peoria, IL |
| **Gearbox, Lufkin**<br>Asset ID: B2093<br>Lufkin | Lufkin Gear reducer | Used - Fair<br>Peoria, IL |

| **Heat Exchanger** | | **21 Items** |
|---|---|---|
| **Circulation Heater 30 KW**<br>Asset ID: V2239<br>Trivolt | Trivolt electric circulation heater CIRH-0024. Rated at 30 KW 480v 3/60. NEMA. Pressure MWP 150 psi. Quantity (4) priced separately Price includes loading on your truck. Any crating or protection will be additional. | Used - Very Good<br>Jacksonville, IL |
| **Circulation Heater 60 KW**<br>Asset ID: V2238<br>Trivolt | Trivolt electric circulation heater CIRH-0024. Rated at 60 KW 480v 3/60. NEMA. Pressure MWP 150 psi. Price includes loading. Crating or protection extra | Used - Very Good<br>Jacksonville, IL |
| **Heat Exchanger**<br>Asset ID: H-810<br>Rubicon | Rubicon Heat exchanger, MAWP shell 100 psi @ 250F, Tubes 100 psi @ 500F, MDMT -20F, Model WC4B1-168HE, S/N 4024-4, 4 1/2 inch OD x 185 inch OAL | <br>Illinois |
| **Heat Exchanger**<br>Asset ID: H-209<br>API | API Basco heat exchanger 6 x 132 AW Hairpin P/N 1470-06-132-000, S/N E140279-201. MAWP Shell 110 psi @ 820F, Tubes 3350 psi @ 775F, MDMT Shell -20F @ 110 psi, Tubes -20F @ 3350 psi. 41.63 inch OAH, 154.56 inch OAL, 28.25 OAW, 129.82 sq ft | <br>Illinois |
| **Heat Exchanger**<br>Asset ID: H-211<br>API | Heat Exchanger by API Basco 10 x 312 AW Hairpin, P/N 1470-10-312-000. S/N E140279-301. Shell MAWP 110 psi @ 690F, Tubes 3320 psi @ 775F, Shell MDMT -20F@110 psi, Tubes -20F @ 3320 psi. Year 2014. 42 inch OAW, 57.25 OAH, 342 OAL, 1070 sq ft area | <br>Illinois |

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|---|---|---|
| **Heat Exchanger**<br>Asset ID: H-308<br>API | API Basco heat exchanger 12 x 300 AW hairpin P/N 1470-12-300-000, S/N E140279-401. Shell 110 psi @ 650F MAWP, Tubes 3360 psi @ 590F, Shell - 20F @ 110 psi, Tubes -20F @ 3360 psi. 61.63 inch OAH, 332.38 inch OAL, 45 inch OAW. Year 2014, Empty Weight 14305 lbs | Illinois |
| **Heat Exchanger**<br>Asset ID: H-309<br>API | API Basco heat exchanger 4 x 132 AW Hairpin P/N 1470-04-132-000, S/N E140279-501. MAWP Shell 110 psi @ 820F, Tubes 3350 psi @ 690F, MDMT Shell -20F @ 110 psi, Tubes -20F @ 3350 psi. 34.38 inch OAH, 152.69 inch OAL, 21 inch OAW | Illinois |
| **Heat Exchanger**<br>Asset ID: H-311<br>API | API Basco heat exchanger 12 x 312 AW Hairpin (stacked) P/N 1470-12-312-000, S/N E140279-601. MAWP Shell 110 psi @ 650F, Tubes 3320 psi @ 690F, MDMT Shell -20F @ 110 psi, Tubes -20F @ 3320 psi. 98 inch OAH, 343.88 inch OAL, 57.63 inch OAW | Illinois |
| **Heat Exchanger**<br>Asset ID: H-406<br>API | API Basco heat exchanger 10 x 324 AW Hairpin P/N 1470-10-324-000, S/N E140279-701. MAWP Shell 110 psi @ 650F, Tubes 3360 psi @ 690F, MDMT Shell -20F @ 110 psi, Tubes -20F @ 3360 psi. 57.25 inch OAH, 356 inch OAL, 42 inch OAW | Illinois |
| **Heat Exchanger**<br>Asset ID: H-407<br>API | API Basco heat exchanger 12 x 300 AW hairpin P/N 1470-04-120-000, S/N E140279-801. Shell MAWP 110 psi @ 820 MAWP, Tubes 3350 psi @ 690F, MDMT Shell - 20F @ 110 psi, Tubes -20F @ 3350 psi. 34.38 inch OAH, 141.69 inch OAL, 21 inch OAW, Year 2014, Empty Weight 1800 lbs | Illinois |
| **Heat Exchanger**<br>Asset ID: H-409<br>API | API Basco heat exchanger 12 x 306 AW hairpin (stacked) P/N 1470-12-306-000, S/N E140279-901. Shell MAWP 110 psi @ 650F MAWP, Tubes 3320 psi @ 690F, MDMT Shell -20F @ 110 psi, Tubes -20F @ 3320 psi. 337.38 inch OAH, 337.38 inch OAL, 57.63 inch OAW, Year 2014, Empty Weight 29185 lbs | Illinois |
| **Heat Exchanger**<br>Asset ID: H-503<br>Rubicon | Rubicon Heat exhanger, Shell & Tube, SS304, MAWP Shell 150 psi @ 450F, Tubes 150 psi @ 350F, MDMT Shell -20 @ 450F, Tubes -20@350F, S/N 4021-2, 8 5/8 inch O.D. x 71 7/8" L, 71.6 sq ft area, Model VT8A1-72VE | Illinois |
| **Heat Exchanger**<br>Asset ID: H-707<br>Rubicon | Rubicon Heat exchanger condenser, Shell & Tube, SS304, Rubicon MAWP Shell 75 psi @ 250F, Tubes 50 psi @ 250F, MDMT Shell - 20 F @ 100F, Tubes -20 @ 50F, S/N 4024-5, VS34CU2-180H | Illinois |
| **Heat Exchanger**<br>Asset ID: H-802<br>Rubicon | Rubicon Economizer Model WC10B1-168HE, MAWP Shell 100 psi @ 400F, Tubes 75 psi @ 400F, MDMT Shell -20F @ 100 psi, Tubes -20 @ 75 psi, S/N 40242 | Illinois |
| **Heat Exchanger**<br>Asset ID: H-803<br>Rubicon | Rubicon Heat exchanger condenser, Shell & Tube, SS304, Rubicon MAWP Shell 100 psi @ 250F, Tubes 100 psi @ 350F, MDMT Shell -20 F @ 100psi, Tubes -20 @ 50psi, S/N 4024-3, WC18B1-168HE, 18 inch diameter x 194.875 inch L | Illinois |
| **Heat Exchanger**<br>Asset ID: H-804<br>Rubicon | Rubicon Heat exchanger, MAWP Shell 125 psi @ 700F, Tubes 75 psi @ 500F, MDMT -20F @ 125 psi, Tubes -20F @ 75 psi, S/N 4024-1, Model WC10B1-168HE | Illinois |
| **Heat Exchanger**<br>Asset ID: H-1001<br>Rubicon | Heat Exchanger MAWP Shell 125 psi @ 500F, Tubes 125 psi @ 750F, MDMT Shell -20F @ 125 psi, -20F @ 125 psi, S/N 4031-2 | Illinois |

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|---|---|---|
| **Heat Exchanger**<br>Asset ID: H-1002<br>Mason Mfg | Mason heat exchanger 1835 sq ft area, MAWP Shell: 130 psi @ 600F, Tubes: 75 psi @ 600F, MDMT Shell: -20 @ 75 psi, Tubes: -20F @ 75 psi, S/N 17-6809 | <br>Illinois |
| **Heat Exchanger**<br>Asset ID: H-103<br>WCR | Heat Exchanger 7.09" W x 1905" H x 9" L, 10.7 Sq Ft area | <br>Illinois |
| **Heat Exchanger**<br>Asset ID: H-104<br>WCR | Heat Exchanger by WCR, Single pass flow heat exchanger | <br>Illinois |
| **Heat Exchanger Hairpin 862 sf**<br>Asset ID: H-208<br>API | Heat Exchanger by API Basco 10 x 300 AW Hairpin P/N 1470-10-300-000. S/N E140279-101. Shell MAWP 110 psi @ 690F, Tubes 3360 psi @ 775F, MDMT Shell -20F @ 110 psi, Tubes -20F @ 3360 psi. 57.25 OAH, 42 inch OAW, 329.88 OAL, 861.84 sq ft area | <br>Illinois |

| Heat Exchanger/Condenser | | 6 Items |
|---|---|---|
| **Condenser 1950sf**<br>Asset ID: 8069<br>Crown Iron Works | Unused Crown Iron Works stripper condenser 1950 sqft (181 sqmt) has (414) 3/4 inch (19.05 mm) diameter x 24 feet (7315 mm) long t304 stainless steel tubes rated 45 psi (3.1 bar). Has 24 inch (610 mm) diameter x 24 ft (7315 mm) long carbon steel shell rated 15 psi (1.03 bar). Was used as stripper condenser | New, Old Stock<br>England |
| **Condenser 5088sf**<br>Asset ID: 8067<br>Crown Iron Works | Crown Iron Works condenser, NEW, Old Stock. Surface area 5088 sq ft (473 sq m) with (1080) 3/4 inch (19.05 mm) diameter x 24 ft (7315 mm) long ss304 stainless steel tubes rated 45 psi (3.1 bar) design pressure. Carbon steel shell 40 inch (1016 mm) diameter x 24 ft (7315 mm) long rated +/-1 psi (-0.06/0.06 bar) design pressure. New 2004. Was used as Desolventizer Toaster condenser. | New, Old Stock<br>England |
| **Condenser Vertical SS 1148sf**<br>Asset ID: 7893<br>Melter | Used condenser manufactured by Melter approximately 1148 sq. ft. surface area. Vertical 316L stainless steel shell and tube heat exchanger. Size 28" diameter X 7'-9" face to face length. Carbon steel shell rated 150 PSI @ 302 degrees F, Has (731) 3/4" OD 316L stainless steel tubes rated 116/FV@ 302 degrees F. S/N MDI-763-7, ASME NB# 401. Nozzles: (2) 3" service nozzles. (1) 4" and (1) 10" inlet and outlet on the process side. (4) 2" inlets and outlets for level and (2) 1.5" nozzles for temperature. Last used as a water stripper column condenser. We will hydrotest upon issuance of purchase order.<br>Removed - ready to load. | Used - Good<br>Texas |
| **Evaporative Condenser 5013sf**<br>Asset ID: 8066<br>Crown Iron Works | Unused Crown Iron Works approximately 5013 sqft (466 sqmt) 1st stage evaporator. T304 stainless steel tubes has (1064) 3/4 inch (19.05 mm) diameter x 24 feet (7315 mm) long 304 stainless steel tubes rated 15 psi/full vac (1.03 bar/full vac) design pressure. Has 58 inch (1473 mm) diameter x 24 feet (7315 mm) long shell rated +/-1 psi (-0.06/0.06 bar) design pressure. New 2004. | New, Old Stock<br>England |
| **Evaporative Condenser 9,498sf**<br>Asset ID: 8068<br>Crown Iron Works | Unused Crown Iron Works 9498 sqft (882 sqmt) 304 ss horizontal evaporator condenser. Has (2016) 3/4 inch (19.05 mm) diameter x 24 ft (7315 mm) long 304 stainless steel tubes rated 55 psi (3.70 bar) design pressure at 100 deg.f (38 deg.c). Has 56 inch (1422 mm) diameter x 24 ft (7315 mm) long shell rated +/-15 psi (-1.03/1.03 bar) design pressure at 212 deg.f (100 deg.c). 4 pass tube side, 2 pass shell side. New 2004. Vapor inlet 36:. Shell 56" OD x 24 ft.Overall size 6 ft top to bottom x 27ft-2" long, empty weight approx 32,970 pounds | New, Old Stock<br>England |

| | | |
|---|---|---|
| **Flash Drum**<br>Asset ID: 31-V-164<br>PPV Precision Pipe & vessel | Flash drum, Manufactured by Precision Pipe & Vessel in 2009 - ran 42 days only - like new. Physical size 72" dia x 11'-6" . Has demister pad at top of vessel. Has a 5'-6" skirt on bottom and a 4 ft top skirt for OAH of20'-8" tall. Inlet 4", vapor outlet 1-1/2", liquid outlet 4". ASME rated MAWP 200/FV at 250F. Nat'l Bd# 879, s/n CV-0884. Material: carbon steel SA-516-70 with 2" insulation and ss covering. Note: Photos show both the flash drums stacked on top of each other. Part of module fp311. Used as Flash Drum, High Pressure | Used - Very Good<br>Soperton, GA |

| Heat Exchanger/Immersion | | 2 Items |
|---|---|---|
| **Flanged Immersion Heater 260 kw**<br>Asset ID: 8850<br>Durex | NEW, still in crate- never used. Model: DRX 305 6CKTS, IMMER 100", 0.475" INC 800EL, NEM, ME1448 – N100P – 260KW, Duty 260KW, Power: 480V 3PH<br>• Specification sheets (and design data) from manufacturer Total Power: 260KW, 3PH, 3 circuits, 104.36 AMPS per circuit<br>Flange Size: 14" 150# 304SS Flange; Immersion Length: 100". The DRX 305 6CKTS is a heavy-duty industrial electric flange immersion heater rated at 480V, 3-phase, and 260 kW. | NEW<br>Alberta Canada |
| **Immersion Heater 300 kw**<br>Asset ID: 8842<br>Durex | **Immersion Heater**<br><br>Immersion heater, ANSI 14" 150# 304 SS Flange Heater.<br><br>• Manufactured by Durex. Model # MF1604-S860P. 300KMW. Design is 2630 kPag@500/-29C. 480V / 3 phase / 60Hz. NEMA 4<br>• Has 54 elements 0.475 dia metal incoloy rated at 4814W 480v<br><br>The Durex Industries MF1604-S860P is a heavy-duty industrial 300 kW electric inline immersion and circulation heater operating on 480V 3-phase power, typically used for high-capacity fluid heating in oil, gas, and industrial process applications | NEW<br>Alberta Canada |

| Heat Exchanger/Plate Exchanger | | 4 Items |
|---|---|---|
| **Heat Exchanger Plate Pack**<br>Asset ID: 2369<br>Alfa Laval | 72 new plates for Alfa Laval TS20M heat exchanger. 316ss 0.6mm Flow Plate w/ EPDM Flow Gasket | Unrated<br>Ohio |
| **Heat Exchanger, Plate**<br>Asset ID: 2368<br>Alfa Laval | New Alfa Laval TS20M plate & frame heat exchanger with 72 plates. | Unrated<br>Ohio |
| **Heat Exchanger, Plate 4448 sf**<br>Asset ID: 6013<br>Polaris | Used Polaris Plate Heat Exchanger. 304 Stainless Steel. Approximately 4,448.50 Square Feet. (330) Stainless steel plates. Rated 150 psi at 284 degrees F. (4) 12" diameter inlet/outlets. Flow rate 3600 gallons per minute. Maximum # of plates 348. Mounted on a painted carbon steel expandable frame. Serial# 11738. Built 2010. | Unrated<br>Illinois |
| **Heat Exchanger, Plate ss 280 sf**<br>Asset ID: E-1513<br>APV | APV stainless steel plate heat exchanger. MAWP 200 PSI @ 320 F. MDMT -20 F @ 200 PSI. Surface area: 280 sq. ft. with 2" inlets/outlets. Includes 153 ss316 plates at 0.6mm thick. S/N 30326.1. Last used as a product cooler for ethanol. See drawing for more information. | Used - Good<br>Grant City, MO |

| Heat Exchanger/Scraped Surface | | 1 Items |
|---|---|---|
| **Scraped Surface Heat Exchanger**<br>Asset ID: 7145<br>Votator | Cherry Burrell Votator Scraped Surface Heat Exchanger 6x72 single barrel - Shown As Is but we can recondition if needed. S/N 3455353. Direct Driven by 20HP motor, 1755 rpm/230 rpm out. All wetted surfaces are stainless steel 304, barrel is Chromium plated Nickel. Has 4 rows of ss blades (24 total). MAWP shell 250 psig at 375F/-20F, jacket 150 psig at 375F/-20F. Heat exchange surface area 9 cu ft. Gear reducer Reynold ser No. 3455353, size 5. ratio 7.63:1, output 230 rpm. Volume in tube (product) 880 cu in, volume in jacket 1080 cu in. Physical weight of cylinder & tube is 1100 pounds. Total weight with frame & motor is approx 2500 pounds. Price includes removal & loading on your truck Sold As Is Where Is however, this unit can be reconditioned for additional cost. Cleaned, painted, inspected, new seal, new bearings - 3 month guarantee material and workmanship. New blades and barrel re-chrome are extra options | Used - Fair<br>Grant City, MO |

| Heat Exchanger/Shell & Tube | | 15 Items |
|---|---|---|
| **Heat Exchager cs/ss 10,259 sq ft**<br>Asset ID: 8865<br>Heat Transfer Systems | **UNUSED 10,259 Sq. Ft. Horizontal Heat Exchanger**<br>• Shell: CS Shell rated 150 psi/fv @ 400F. Size 6' dia x 33' 3" OAL Shell nozzles 30" in & out<br>• Tubes: 304-SS tubes rated 150 psi/fv @ 200F. 1.25" dia. tubes X 18'L. 1 Pass Shell. 1 Pass Tubes. Tube Nozzle 54" IN and (2) 6" out.<br>Built by Heat Transfer Systems, MFG 2007. S/N: 12928-7, ASME NB# 1845. | New, Old Stock<br>Texas |
| **Heat Exchanger 5700 sf**<br>Asset ID: 1340<br>Joseph Oat | Unused- Joseph Oat Corporation 8 Pass U Tube Shell & Tube Heat Exchanger, 5700 Square Feet, 8 Pass U Tube. ASME "N" Stamp NB # 3607. Horizontal. Carbon steel shell rated MAWP 150 psi at 200 degrees F, diameter 55.5" OD. Tubes: (1194) 3/4" Diameter x 11' long; 304L stainless steel tubes rated MAWP 150 psi at 200 degrees F. 304L Stainless steel head and tubesheets. Openings for shell (2) 14", for tubes (2) 10". Mounted on saddles. Serial # 2692B, Built 2012. | New, Old Stock<br>Illinois |
| **Heat Exchanger cs/ss 9,760 sq ft**<br>Asset ID: 8867<br>A & B Process Systems | **UNUSED 9,760 Sq. Ft. Vertical Heat Exchanger**<br>• Shell: CS Shell rated 150 PSI @ 400F. Size: 4'-6" dia x 24' OAL: Nozzles (2) 12"<br>• Tubes: 304-SS tubes rated 75 PSI @ 500 F. Nozzles (2) 30". Has 1554 Tube Holes - 1" dia tubes X 24'L. 1 Pass Shell. 1 Pass Tubes.<br>Built by A&B Process Systems, MFG 2009. S/N: 0909450607, ASME NB# 839. | New, Old Stock<br>Texas |
| **Heat Exchanger, Shell & Tube 1819sf**<br>Asset ID: 8084<br>Thermotran | Heat Exchanger, Mfg by Thermotran. Tube & shell material both are carbon steel. MAWP: Shell Pressure 150 psig at 150F. Tube Pressure 1040 psig at 355F. Arrangement is 2-pass shell and 2-pass tubes. Has 340 tubes 0.75" dia x13 feet. Heat exchanger overall length 18.75 feet. Shell 2 ft-10" dia x 1/2 inch thick. ASME NB# 139, S/N H-1441. Inlet/outlet 10". Designed for 306,500 #/hr water shell side at 630 gpm. Designed for syngas tubeside 107,813 #/hr. Heat exchanged 9.2 MMBTU/hr. See link for U-1 and heat exchanger drawing. | Unrated<br>Texas |
| **Heat Exchanger, Shell & Tube 2151sf**<br>Asset ID: 41-E-112<br>HED | Heat exchanger shell & tube TEMA AEU design. U-tube type, Heat transfer area 2151 sq ft, ASME MAWP tubes 1650 psig/FV at 385F, shell 150 psig at 250F. Nat'l Bd # 2932, serial# 4017C. Rated for 98 MMBTU/hr, Water 90/110F, Reactor Effluent 300/105F. Material 304L stainless steel tubes/CS shell. There are 325 tubes sized 5/8" OD with 0.065" wall, Physical size 25" dia x 20 ft. Manufactured by Heat Exchanger Design (HED) in 2009. Physical weight 16,620 pounds. Ran 42 days - like new. We have U-1A - see Links. (Part of module fp413) | Used - Very Good<br>Soperton, GA |

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|---|---|---|
| **Heat Exchanger, Shell & Tube 5861 sf**<br>Asset ID: 31-E-188<br>Heat Exchanger Design Inc. | Shell & tube heat exchanger, Heat transfer area 5,861 sq ft, Physical size 38" dia X 28 ft long. Material shell KCS (killed carbon steel)/ tubes carbon steel SA179. Rated at 450 psig 4.02 MMBTU/hr, HP Solvent 36/102, Lean Solvent 121/46F. TEMA type BFU, 2-pass shell side, 2-pass tube side. Manufactured by Heat Exchanger Design in 2009 - ran only 42 days - like new. ASME MAWP 450/FV at 350F, Nat'l Bd# 2891, s/n 4015. Has (611) 3/4" tubes. We have drawings and U-1A - see Links. Used as Solvent / High Pressure Liquid Exchanger on fp311. | Used - Very Good<br>Soperton, GA |
| **Heat Exchanger, Shell & Tube 135 sf**<br>Asset ID: 31-E-236<br>Precision Pipe & Vessel | Shell & tube heat exchanger, Surface area 135 sq ft, physical size 10 in dia x 8.5 ft long. Designed for 1.44 MMBTU/hr, operating pressure 80 psig. Shell side Steam 324psi/307F, tube side HP Solvent 102psi/125F. ASME rated at shell 150 psi at 400F, tube 200 psi at 250F. TEMA Design NEN. Has 81 tubes 3/4" 14 gage tubing, 0.75/0.083, empty weight 1913 #. Manufactured by Precision Pipe & Vessel in 2009 - ran only 42 days - like new. Material: shell is seamless pipe carbon steel SA-106 grade B, tubes are carbon steel 14 gage. We have drawing in Links. Used as High Pressure Liquid Heater on fp311. Still installed - allow 2-3 weeks for removal and loading. | Used - Very Good<br>Soperton, GA |
| **Heat Exchanger, Shell & Tube 280sf**<br>Asset ID: 31-E-234<br>Precision Pipe & Vessel | Shell & Tube heat exchanger, Rated at 800 psi 0.364 MMBTU/hr, Treated Gas 21/100F, Raw Syn Gas 110/64F. Shell & tube, TEMA design NEN, 280 sq ft, 0.75/0.065, 3237 #. Physical size 10 in dia x 23 ft 5 1/8 inch long. On channel saddles 2'-6". ASME MAWP 800/Fv at 350F shell, 800/fv at 250F tubes. Manufactured by Precision Pipe & Vessel (PPV) in 2009. Material tubes 304L Stainless/shell CS. Insulated calcium silicate. See drawing in Links. Used for Gas Clean-up Feed/Effluent Exchanger. Part of fp311. Still installed - will be difficult to remove. | Used - Very Good<br>Soperton, GA |
| **Heat Exchanger, Shell & Tube ss 102sf**<br>Asset ID: 8138<br>Paul Mueller | Paul Mueller Company Heat Exchange Tube. Stainless steel shell and tubes ss304. Brand NEW - never used, stored in warehouse. Style TEMA BEM. Size 6-5/8" OD x 247" OAL. (6" ID x 240" tube length). Built 2006. ASME Nat'l Bd # 42489, S/N 357149-16. MAWP shell 125 psi @ 600F, tubes 150 psi @ 400F. NEW. 26 Tubes at 0.75" OD x 240" for 102 sf heat exchange surface area. Inlet/Outlet flange connections all are 2". Empty weight: 607 pounds. | New, Old Stock<br>Pennington Gap, VA |
| **Heat Exchangerr cs/ss 10,761 sq ft**<br>Asset ID: 8864<br>Yuba SPX | **UNUSED 10,761 Sq. Ft. Horizontal Heat Exchanger**<br>• Shell: CS Shell rated 250 PSI/fv @ 420 Deg F. Shell:size 3-0" dia x 53'-7" L<br>• Tubes: 304-SS tubes rated 700 PSI @ 420 deg. F. Has 1158 Tube Holes - 0.75" dia tubes X 47'10 L. 1 Pass Shell. 2 Pass Tubes. Shell Nozzles: 10", 18", 20. Tube Nozzles (2)16".<br>MFG 2011. S/N: WUH/700.110493/1A. ASME NB# 8679. Built to be used as LP Feed Water Heater. | New, Old Stock<br>Texas |
| **Reboiler Heat Exchanger 100 sf**<br>Asset ID: H-105<br>Rubicon | Heat Exchanger 10.75 diameter x 71 7/8 inches, 100 sqft area, Rubicon Model VT10B2-72VE, S/N 4021-1, Shell MAWP 150 psi @ 450F, MDMT -20F @ 150 psi,Tubes 150 psi @ 350F, -20F @ 150 psi | Illinois |
| **Reboiler Heat Exchanger 1635 sf**<br>Asset ID: H-809<br>Rubicon | Rubicon Heat exchanger, MAWP Shell 150 psi @ 750F, Tubes 75 psi @ 500F, MDMT -20F @ 150 psi, Tubes -20F @ 75 psi, S/N 4026, Model VT22C1-168VE, 22 inch dia x 218.75 inches, 1635 sq ft | Illinois |

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| **Reboiler Heat Exchanger 7062 sf**<br>Asset ID: 7879<br>Heat Transfer Systems,Inc. | **Rectifier Reboiler Heat Exchanger 7062 sf**<br><br>Like new. Reboiler is from an cellulosic ethanol distillation pilot plant project. Total production of ethanol was 20,000 gallons, so very little time in operation.<br>**Specifications**<br>• 304L SS tubes and tube sheets, carbon steel shell jacket for steam<br>• ASME NB# 2068. Designed for Shell 75psi/FV @ 320F, Tubes 60psi/FV @ 320F<br>• Exchanger Configuration: BEM. Vertical Orientation but can be mounted on horizontal<br>• Size 57" Diameter, 16'-0: shell length (over all length 23"-8")<br>Removed - ready to load. Price includes rigging and loading. | Used - Very Good<br>Georgia |
| **Reoiler Heat Exchanger 1635 sf**<br>Asset ID: H-706<br>Rubicon | Reboiler 30 inch dia. X 221.375 inches H, 1635 sq ft area; design pressure 150 psi @ 500F, Tubes 75 psi @ 350 F | <br>Illinois |
| **Shell & Tube Heat Exchanger 374sf**<br>Asset ID: 8071<br>Crown Iron Works | Unused Crown Iron Works 374 sq ft (35 sq mt) horizontal shell & tube heat exchanger Has (119) 3/4 inch (19.05 mm) diameter x 16 feet (4877 mm) long 304l stainless steel tubes rated -15/75 psi (-1.03/5.17 bar) design pressure at 250 deg F (121 deg C). Has 14 inch (356 mm) diameter x 16 ft (4877 mm) long carbon steel shell rated -15/165 psi (-1.03/11.37 bar) design pressure at 300 deg F (149 deg C). New 2004. | New, Old Stock<br>England |

| **Hemp & Botanicals/Oil Extraction** | **5 Items** |
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| **Cup 30 System**<br>Asset ID: 8863<br>Delta Separations | **Delta Separations CUP-30 System**<br><br>The Delta Separations CUP 30 is a centrifugal botanical and cannabis extraction system designed to process 25 to 30 pounds of biomass per batch.<br>Includes:<br>• Main Panel<br>• Control Panel<br>• 2' Hose<br>• 10' Hose<br>• Discharge Tank | Used - Good<br>Utah |

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| **Cup 30 System**<br>Asset ID: 8862<br>Delta Separations | **Delta Separations CUP-30 System**<br><br>The Delta Separations CUP 30 is a centrifugal botanical and cannabis extraction system designed to process 25 to 30 pounds of biomass per batch.<br>Includes:<br><br>• Main Panel<br>• Control Panel<br>• 2' Hose<br>• 10' Hose<br>• Discharge Tank | Used - Good<br><br>Utah |
| **Ethanol Botanicals Extractor CUP15**<br>Asset ID: 7894<br>Delta Separations | **CUP 15 Extractor**<br><br>The CUP15 is a small capacity system that uses alcohol to extract your target compounds from various botanical materials.<br><br>• Size 37" x 25" x 56", weight 1095 lbs.<br>• Batch size 8-14 lbs. plant material, avg run time 10-20 minutes<br>• Alcohol requirement is 12-15 gallons per run, Working temp range from -40C to +60C<br>• Liquid/vapor tight vessel with EPDM lid seal; 1 gallon jacket volume with 1/2" NPT male jacket ports;<br>• Industrial Hazardous Location (HazLoc) control panel; Touchscreen HMI; Dual emergency stop<br>• On stainless steel cart with rollers<br><br>The CUP-15 combines closed loop alcohol extraction with centrifugal technology, ensuring consistent and convenient results by a single operator. A touch screen HMI features a menu with various agitation and spin-dry cycles, each of which is programmable to the operator's specifications. With a runtime of only 10-20 minutes and a throughput of approximately 300 lbs. per 8-hour work day, this system will efficiently attain your processing goals.<br>**Applications**<br><br>• Botanical Oil Extraction: Hemp, cannabis, essential oils, plant extracts<br>• Pharmaceutical & Nutraceutical Processing<br>• Food & Beverage Industry: Flavor and fragrance extraction<br>• Cosmetic & Skincare Industry: Active ingredient extraction<br>• Chemical Solvent-Based Extraction Processes<br><br>**Compatible Products & Uses**<br><br>• Ethanol-Based Cannabis and Hemp Extraction<br>• CBD and THC Oil Production<br>• Essential Oil and Botanical Extract Processing<br>• Industrial-Grade Ethanol Extraction for Herbal and Plant-Based Ingredients<br>• Solvent Recovery and Purification for High-Purity Extracts | Used - Good<br><br>Nevada |

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| **Supercritical CO2 Extractor 20L**<br>Asset ID: 8564<br>IES Isolate Extraction Systems | **Supercritical 20L Hydraulic CO2 extractor**<br><br>Closed loop liquid CO2 extractor. Model CDMH.20-2X-2F, mfg by Isolate Extraction Systems<br><br>• Material of Construction 304/316 stainless steel<br>• Manual available on request<br>• Volume 20 liters per extraction (40 total liters)<br>• Capacity 4 - 17.6 lbs per extraction vessel<br>• max flow rate 4 kg/min<br>• Solvent Range: 850-3500 psi (58.6-241.3 bar), 50°-140°F (10°-60°C)<br>• Expansion Range: 400-650 psi (27.5-44.8 bar), 65°-140°F (18°- 60°C)<br>• Includes chiller<br><br>**Understanding Supercritical CO2 Extraction**<br>The CDMH.20-2X-2F is an industrial-grade CO2 extraction machine designed for professionals seeking a safe, efficient, and high-capacity extraction solution.. Traditional extraction methods often rely on harsh solvents like butane or propane, which can leave residual traces in the final product, raising safety concerns. Supercritical CO2 extraction offers a cleaner and safer alternative. Carbon dioxide (CO2) is a naturally occurring gas, readily available and non-toxic. Under specific conditions of high pressure and temperature, CO2 transforms into a supercritical fluid, possessing properties of both a liquid and a gas. This supercritical CO2 acts as a solvent, effectively dissolving and extracting desired bioactive compounds from botanical materials. | Used - Good<br><br>Colorado |
| **Supercritical CO2 Extractor 10L**<br>Asset ID: 8565<br>IES Isolate Extraction Systems | IES supercritical CO2 extraction system 10L - skid mounted, closed loop liquid CO2 Extractor.<br>Model CD10000H-2x-2f<br><br>• Volume: Dual 10L solvent chambers, 10 liters per extraction vessel [20 total liters]<br>• Capacity: 2 – 8.8 lbs (0.9 – 4 kg) per extraction vessel*<br>• Max Flow Rate: 2.4 kg/min +/-5% **<br>• Solvent Range: 850-3500 psi (58.6-241.3 bar), 50°-140°F (10°-60°C)<br>• Expansion Range: 400-650 psi (27.5-44.8 bar), 65°-140°F (18°- 60°C)<br>• Materials of Construction 304/316 stainless steel<br>• Manual available on request<br>• Chiller by Thermo Scientific ThermoFlex 5000 operated at 2900w at 19 degrees C, rated at 5000w. Circulating chiller<br><br>**Understanding Supercritical CO2 Extraction**<br>Traditional extraction methods often rely on harsh solvents like butane or propane, which can leave residual traces in the final product, raising safety concerns. Supercritical CO2 extraction offers a cleaner and safer alternative. Carbon dioxide (CO2) is a naturally occurring gas, readily available and non-toxic. Under specific conditions of high pressure and temperature, CO2 transforms into a supercritical fluid, possessing properties of both a liquid and a gas. This supercritical CO2 acts as a solvent, effectively dissolving and extracting desired bioactive compounds from botanical materials. | Used - Good<br><br>Colorado |

**Instrument** — **4 Items**

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| **Generator Gas Dryer and Analyzer**<br>Asset ID: 8881<br>e One ( Environmental One Corp ) | **GAS STATION™ From E/One**<br><br>**GAS STATION is a new modular approach to gas control and monitoring for hydrogen-cooled generators**<br>The E/One Gas Station is a modular approach that combines monitoring and control systems onto a single skid<br>**MODULES**<br><br>• Generator Gas Analyzer - GGA<br>The Generator Gas Analyzer (GGA) continuously analyzes generator cooling gas during normal and purge operations to ensure optimum purity levels and maximum operational efficiency. Assembly # HD0135G01. Serial # GS 0109. Single phase, 120 VAC, 30 Watts, 50/60Hz. Thermocnductivity measurements designed for gas flow rates fro 100 to 700 cc/min. Triple-range sensor/analyzer that provides continuous monitoring of gas purity during all phases of generator operation.<br>• Generator Gas Dryer - GCD<br>eOne's Generator Gas Dryer (GGD) removes contaminants from the hydrogen cooling gas through all phases of generator operation. Assembly # DD0125G07. Serial # GGD 0112. Single phase, 480 VAC, 2.4 KW, 50/60 Hz. Dual-chamber system continuously dries and recirculates generator cooling gas | Used - Good<br><br>Illinois |
| **Instrument Components (complete LOT)**<br>Asset ID: 8861 | INSTRUMENTS<br>Priced for the lot. Representative photos shown here for list below. **Click on Link for all details and photos**<br><br>• **One - Vegapuls 62 Radar Sensor** PS62.KFEAMHHANXX VEGA PS62.KFEAMHHANXX 75<br>• **One - Filter Regulator** LFR-D-MIDI with On/Off Valve HE-D-MIDI FESTO LFR-D-MIDI 75<br>• **One - Explosion Proof Pressure Transmitter** IDP25-T22B21F-M2VL1 Foxboro IDP25-T22B21F-M2VL1 75<br>• **One - Pointek CLS200 Level Switch** 7ML56400BF011JA0 SIEMENS 7ML56400BF011JA0 75<br>• Two - Vegaflex 86 Wave Radar Level Sensor FX86.CDCAD2HXDNAX VEGA FX86.CDCAD2HXDNAX 75<br>• One - 8800D 4-20mA HART Meter LCD Indicator Kit 8800-5640-1003 Rosemount 08800-5640-1003 75<br>• Two - Vegaflex 86 Wave Radar Level Sensor FX86.CDCAD2HXDNAX (No Cable) VEGA FX86.CDCAD2HXDNAX 75<br>• One - Sitrans LR250 Radar Level Transmitter 7ML54310AD100BB1 SIEMENS 7ML54310AD100BB1 75<br>• One - VEGABAR 61 Pressure Transmitter w/ Separating Diaphragm BR61.CXFRH1RPKMAX VEGA BR61.CXFRH1RPKMAX 75<br>• Three - Diaphragm Pressure Switch, 0.03-3ps. 125/250VAC D1X-A3SS-UL Barksdale D1X-A3SS-UL 75<br>• One - 3051S Coplanar Pressure Transmitter 3051SAL2SG2AA2A2620ZFF w/ Diaphragm Rosemount 3051SAL2SG2AA2A2620ZFFG2DAA 75<br>• Four - Electric Level Controller L2e FISHER L2e 75<br>• Two - SITRANS P Pressure Transmitter 7MF4234-1FA10-1NC6-Z SIEMENS 7MF4234-1FA10-1NC6-Z 75<br>• One - 8800 Vortex Flow Meter Body Only 08800-5622-1011 Rosemount 08800-5622-1011 75<br>• Two - 3051S Coplanar Pressure Transmitter 3051SAL2SG2AA2A2620ZFF w/ Diaphragm Rosemount 3051S 75<br>• One - Pointek CLS200 Level Switch 7ML56300BB000GA0 SIEMENS 7ML56300BB000GA0 75<br>• Two - Electric Flow Switch 1520B-F5A-C-L9-EF-CSCV SOR 1520B-F5A-C-L9-EF-CSCV 75<br>• Two - Side Mounted Level Switch 1510B-G2A-C-L9-ES-CSCV SOR 1510B-G2A-C-L9-ES-CSCV 75<br><br>**29 Pieces - All above equipment is sold as One LOT for price quoted.** | Unrated<br><br>Alberta Canada |

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| **Isolated Signal Converter**<br>Asset ID: S2000<br>Adtech | Adtech powered isolated signal converter, model SCT 502 snap track mounting. Input 4-20 maDC, output 4020 maDC. Power 115 vac. The Adtech Model SCT 502 AC powered Isolated Signal Converter provides a user configurable solution for ground loops and problems encountered in connecting together recorders, process control systems, computers, DCS and PLC systems. The SCT 502 breaks the galvanic path between the transmitted signal and the output receiving device insuring reliable and accurate signal transfer. Qty (10) - priced separately | Used - Very Good<br>Jacksonville, IL |
| **Load Cell Weight Modules**<br>Asset ID: V2266<br>Hardy | Hardy load cell weigh module HI PRC03-45C with integral load cell model HI RCH04-50K rated at 50,000 pounds each. Includes mounting plates for this weigh module: 16" x 16" leg mounting plate and 14" x 25" base plate. Carbon Steel, zinc plated. Qty (20) - priced separately We can offer a 50% discount if all 20 are bought as a lot. | Used - Excellent<br>Texas |

| Instrument/Flow Meter, Mass | | 4 Items |
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| **Mass Flow Meter 1"**<br>Asset ID: SM01<br>Micro Motion | Micro Motion 1 inch mass flow meter with transmitter. Model DL100S202SU, Serial 239517. DL sanitary series. Originally calibrated for 53 gpm oil. Sensor attached to flow meter, sn 2395175. Includes transmitter model RFT9739E4SUJ sn 7016482 - for transmitting to plc or touch screen. Suitable for max flow 800 lb/min. (If Oil at 7,9 lb/gal - max flow 100 gpm). This is a used mass flow meter - we will clean recondition and calibrate to your liquid with warranty 24 months. Allow 3 to 4 weeks ARO | Reconditioned<br>Jacksonville, IL |
| **Mass Flow Meter 1/4 in**<br>Asset ID: S3101<br>Micro Motion | Micro Motion 1/4 inch mass flow meter DS series, stainless steel 316. Meter Model DS025H999SU, ser 214093. Sensor mounted on meter. Temp range from -240 to 177 C. | Used - Excellent<br>Jacksonville, IL |
| **Mass Flow Meter 2"**<br>Asset ID: 1450<br>Micro Motion | Micro Motion mass flow meter with transmitter. Model CMF200M418PU. Remanufactured. Material: 316L, size 2" x 1 1/2" 105# weld neck RFF. Nominal flow rate 105,000 lb.hr, max flow rate 192,000 lb/hr. Transmitter is remanufactured model RFT9739MVD, 4-20 ma HART protocol. Allow 2 weeks ARO for shipping. | Remanufactured Rebuilt<br>Louisiana |
| **Mass Flow Meter 4" Piping ss (8)**<br>Asset ID: 1727<br>SWR | Mass Flow Meter NEW. Size 4" pipe flanged. SWR type DensFlow HD DN4, model 75-5080-11.2B or some are 75-5080-11.2C PN825. Process temp -10 to +120 C. Max pressure 1650 psi (110 bar). Output 24 vDC/0.3A. Made in Germany, distributed in USA. Stainless steel, ceramic lined. DensFlow is a measuring system specially developed for flow metering of solids in dense-stream conveying. DensFlow is used in the online measurement of powders or granules. Contactless measuring - no mechanics. Quantity (8) - priced separately | New, Old Stock<br>Marissa, IL |

| Instrument/Flow Transmitter | | 1 Items |
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| **Transmitter for Mass Flow**<br>Asset ID: S2301<br>Micro Motion | Transmitter for Micro Motion mass flow meter. Elite Model RFT9739E4SUJ, sn 7016467. 85-250 VAC, 50/60 Hz, ,Explosion proof. | Used - Good<br>Jacksonville, IL |

| Instrument/Level Transmitter | | 3 Items |
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| **Level Transmitter**<br>Asset ID: S1210<br>Foxboro | Foxboro Electronic level transmitter, 827DF-IS1NHSA1, Ref. No. 86N50387-1A2, 250 deg F max, 12.5-65 VDC, MWP 150 PSI, range 0 to 170 inches water (14 ft), 3" flange. Used | Good<br>Jacksonville, IL |

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| **Level Transmitter XP**<br>Asset ID: L215<br>Foxboro | Foxboro Pressure Level Transmitter with local readout for explosive areas. Silicone interface 316L. Supply 12.5-42 vdc, Output 4-20ma. 07184443. ICP10-T22B21F-M1L1 | Used - Good<br>Jacksonville, IL |
| **Level Transmitter, Radar**<br>Asset ID: S105<br>Vega | Vega Puls 65 (PS-65) radar level detector, RECONDITIONED. Quantity (1). Rod style radar transmitter - all wetted parts are PTFE. Range can be set up to 114 feet and accuracy to +/- 8mm (1/4 inch). Temp range -40 to 266F; 1.5" NPT, ANSI Flanges, 2 wire 4-20mA HART, measuring range 0-99'. Suitable for explosion proof environment Class I, Div II and dust environment Class II, Div 1. Reconditioned and Factory certified to be working to factory specs | Reconditioned<br>Jacksonville, IL |

| Instrument/plc & HMI | | 1 Items |
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| **AB PanelView 900**<br>Asset ID: H2007<br>Allen Bradley | Allen Bradley Panelview 900. Has 9 inch screen. Cat 2711-K9A2. Series F. Display is AC plasma monochrome 640 x 400 pixel resolution, it has 16 function keys with a keypad operator interface. Serial MK1LN91K, Operator Interface features a DH-485 communication port so the device allows connectivity with an SLC controller, a DH-485 network, a MicroLogix controller, or a Wallmount Power Supply. 100-240 vac 50/60 Hz. Display area 8.27 x 5.17 inches. | Used - Very Good<br>Jacksonville, IL |

| Instrument/Pressure Gauge | | 9 Items |
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| **Pressure Gauge & Vacuum 0-300 psi**<br>Asset ID: G11<br>Ashcroft | Ashcroft General Service pressure gauge Model 45-1010-A-02L-30IMV&300#. 4 1/2 inch dial, 1/4 inch NPT Lower connection, 0-300 psi & 0-30 in Hg vac. 2 available, priced separately. | New, Old Stock<br>Jacksonville, IL |
| **Pressure gauge 0-100**<br>Asset ID: G14<br>Ashcroft | Ashcroft pressure gauge 2 inch dial. 0-100 psig, brass1/4 inch back connection | New, Old Stock<br>Jacksonville, IL |
| **Pressure gauge 0-160 psi**<br>Asset ID: G300<br>Ashcroft | Ashcroft 45-1279-AS-04B-160# Duragauge Pressure gauge. 4 1/2 inch dial, 1/2 inch NPT, Back connection, No fill (dry). 0-160 psig | New, Old Stock<br>Jacksonville, IL |
| **Pressure gauge 0-30 psi**<br>Asset ID: G13<br>Ashcroft | Ashcroft pressure gauge 0-30 psig. Brass 1/4" male NPT. | New, Old Stock<br>Jacksonville, IL |
| **Pressure Gauge 0-300 psig**<br>Asset ID: G200<br>Ashcroft | Ashcroft 45-1379-AS-02B-300# Duragauge Pressure gauge. 4 1/2 inch dial, 1/4 inch NPT, Back connection, No fill (dry). 0-300 psig. Qty (2) available, priced separately. | New, Old Stock<br>Jacksonville, IL |
| **Pressure Gauge 0-60 psi**<br>Asset ID: G19<br>Ashcroft | Ashcroft Receiver Gauge 45-1279-AS-04L-LL-60#. 1/2 inch NPT Lower connection, Plus! Performance, 0-60 psi. | New, Old Stock<br>Jacksonville, IL |

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| **Pressure Gauge 0-600 psig**<br>Asset ID: SJ208<br>Anderson | Anderson pressure gauge - NEW, in box. Range 0-600 psig, glycerin filled, 2 inch NPT connection. Model EL08201044111A, S/N 0920989. | New, Old Stock<br>Jacksonville, IL |
| **Pressure Gauge, 0-160 psi**<br>Asset ID: 6057<br>Spirax Sarco | Spirax Sarco pressure gauge, 0-160 psi, 1/2 NPT Pressure gauge. New in box. Open box, old stock. 30604862/240610. Made in EU | New, Old Stock<br>Jacksonville, IL |
| **Pressure Gauges, Lot of 7**<br>Asset ID: 6085<br>Ashcroft | Lot of 7 used pressure gauges. Ashcroft Duragauge plus! - 4 inch face. 0-160 psi. AISI 316 tube and sockets. Priced for the LOT | Used - Good<br>Jacksonville, IL |

## Instrument/Pressure Transmitter — 1 Items

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| **Pressure Transmitter**<br>Asset ID: S2302<br>Foxboro | Foxboro Pressure Transmitter 821GM-DK1NM2, Ref No. 92480188; Used. MWP 150 PSI, supply voltage 12.5-42 VDC; 4-20 ma Output Measures pressure and transmits a proportional electrical signal. | Used - Good<br>Jacksonville, IL |

## Instrument/Temperature Transmitter — 6 Items

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| **Temperature Probe RTD**<br>Asset ID: 2452<br>Weed instrument | Weed Instrument temperature RTD Model 7E40A1/4150 Temp. probe up to 550F, (used)/ 1/4 probe x 12 inch long. With Crouse-Hinds head enclosure (1/2 CUAB 16). We have thermowells for these RTD's - sold separately. See thermowell asset number 1753. Quantity (32) - priced separately. | Used - Good<br>Jacksonville, IL |
| **Temperature Transmitter**<br>Asset ID: 6109<br>Foxboro | Foxboro Temperature Transmitter RTT15-T1FLOTXF 0-300 degrees with Thermowell ANSI B16.5 2" 150#. S/N 08264716. Used | Used - Very Good<br>Jacksonville, IL |
| **Temperature Transmitter**<br>Asset ID: 6081<br>Foxboro | Temperature Transmitter - Foxboro micro processor based Temperature transmitter. Model RTT15-T1FSQTXF S/N 07390755 Range 0-200F. With Flanged Thermowell A/SA182F316/316L 2 x 150 BLRF B16.5 NACE SF7168. Unused NEW Old stock | New, Old Stock<br>Jacksonville, IL |
| **Temperature Transmitter XP**<br>Asset ID: L220<br>Rosemount | Rosemount Temperature Transmitter for explosive areas. Supply 12-42.4 vdc, Output 4-20ma. Rosemount 3144P DIAINAP4 S/N 0506717. 2 wire 0 to 1000F | Used - Good<br>Jacksonville, IL |
| **Temperature Transmitters (2)**<br>Asset ID: 6123<br>Foxboro | Lot of 2 used Foxboro RTT15 Temperature Transmitters. 0-200F Qty available (2) - priced separately<br>• Foxboro RTT15-T1FSOTXF S/N 07390754 0-200F with Thermowell SA182 316/316L 2 x 150 BLRF B16.5 NACE SF7168<br>• Foxboro RTT15-T1FSOTXF S/N 08121943 0-200F with Thermowell SA182 316/316L 2 x 150 BLRF B16.5 NACE MR0175 SF798B | Used - Very Good<br>Jacksonville, IL |

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| **Thermowell**<br>Asset ID: 1753 | Thermowell stainless steel 316 for 1/4" RTD probe. 3/4" FNPT and 1" MNPT x 9 inches long. Used. Fits the RTD we have for sale as asset number 2452. Qty (5) - priced separately | Used - Excellent<br>Jacksonville, IL |

| Lab | | 14 Items |
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| **Cloud Point Analyzer**<br>Asset ID: V2221<br>Koehler | Koehler KLA-1-TS cloud point analyzer. The Koehler KLA-1-TS is an automated, standalone cloud point analyzer featuring an integrated 12-inch TFT/LCD touch screen panel PC.. Temp range 80C to -40 C. Single position unit with touch screen. | <br>Jacksonville, IL |
| **Flask 20L**<br>Asset ID: V2211<br>Heidolph | Heidolph 20L evaporating flask | <br>Texas |
| **Heater Stirrer**<br>Asset ID: V2215<br>Across Int'l | Across digital heating and stirring Mantle. Model DigiM10. Capacity 10,000 ml. Power 110v, 2100 watts. Serial # 202491 | <br>Texas |
| **Heater Stirrer**<br>Asset ID: V2207<br>Across Int'l | Across Int'l Digital heating and stirring mantle. Model DigiM500. 500 ml capacity. Stirring from 110 rpm to 1500 rpm, heating from ambient to 300C, flask holder capacity 500ML Ai DigiM 500mL plug and play magnetic stirring and heating mantle. | <br>Texas |
| **Lab Centrifuge**<br>Asset ID: 1090<br>Hettich | **Rotofix 46 Benchtop Centrifuge**<br>Rotofix 46 Benchtop Centrifuge. Manufactured by Hettich. Model # 4600-01.<br>**Specifications:**<br>• Maximum Capacity 4 x 290ml<br>• Maximum Blood Tubes 4 x 100ml<br>• Maximum Conical Tubes 4 x 165ml<br>• Ambient Temperature, 4000 rpm<br>The Hettich Rotofix 46 Benchtop Centrifuge, for use in the industrial and research laboratory, carries a wide range of accessories for both routine tasks and specialty applications. Based on the popular Rotofix series, the centrifuge is a robust and economical choice for Organic and Inorganic Chemistry, Preparatory and Analytical Chemistry, Electroplating, Petro-chemistry and Dairy.<br>Note: one image is a representative catalog photo. | Used - Good<br>South Dakota |
| **Lab Centrifuge**<br>Asset ID: V2222<br>Thermo Scientific | **Continuous Flow Centrifuge**. Thermo Scientific Heraeus / Sorvall Contifuge Stratos is a high-performance, refrigerated benchtop centrifuge engineered for high-throughput batch and continuous-flow applications.<br>Key Specifications & Features<br>• Max Speed: 17,000 rpm<br>• Max RCF (Relative Centrifugal Force): Up to 25,040 × g (or higher depending on the specialized continuous-flow titanium rotor setup up to ~50,377 × g equivalents)<br>• Control System: Microprocessor-controlled via the Easycontrol / Easycontrol II interface with pre-saved and customizable programs<br>• Refrigeration: CFC-free refrigeration system designed for temperature-sensitive biological and chemical samples | Used - Very Good<br>Jacksonville, IL |

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| **Lab Oven**<br>Asset ID: V2212<br>Across | Across vacuum oven model AT19. serial # 20209007. Temp range ambient to 480F. Power110v 50/60 Hz single phase, 1500w | <br>Jacksonville, IL |
| **Lab Oven**<br>Asset ID: V2216<br>Galaxy | Galaxy lab oven, convection oven 1600W, 120v single. Half size countetop convection oven. | <br>Texas |
| **Lab Refrigerator**<br>Asset ID: M16<br>Marvel Scientific | Marvel Scientific Refrigerator Model 3RWWR, S/N 20130912109H. Has 15 inch Undercounter footprint for 3 cu ft capacity: Built for tight laboratory spaces and lab bench integration. Front-venting system: Operates without requiring extra side or top clearance for ventilation. Temperature stability: Engineered to maintain steady storage environments (commonly around 4°C). | Used - Good<br>Morristown, IN |
| **Tablet / Capsule Counter**<br>Asset ID: 8573<br>Pharmafill | Tablet or Pill Counter, Automatic. Pharmafill model TCA2-R electric table top pill counter with hopper feed and air guide system. Disk 20 inch diameter. This unit electronically counts tablets and capsules of various sizes and shapes at speeds up to 2000 tab/min or 1000 caps/min. Type AD1001-RA.<br>They can be used to count tablets, capsules, caplets, gel caps (hard and soft), and most common solid oral dose type products. They are also used to count cosmetic gel caps and other products with a shape similar to a tablet or capsule | Used - Very Good<br>Colorado |
| **Tensiometer**<br>Asset ID: V3009<br>Sigma | **Tensiometer**<br><br>Attension Sigma 700 Force Tensiometer. Includes:<br>• Julabo 200F recirculating heater / chiller<br>• Platinum Wilhelmy plate<br>• Sample holder for plates<br>• Piston burettes (2) Titronic 300<br>• Sensorex pH electrode- model S100C/BNC<br>See manual for all information and additional data. | Used - Very Good<br>Texas |
| **Turbidimeter**<br>Asset ID: M15<br>Hach | Hach Laboratory Turbidimeter Model TL2300, tungsten lamp turbidimeter. S/N 2018050C0189. See brochure in Links. | Used - Very Good<br>Morristown, IN |
| **UniMax Lab Ventilated Hood Enclosure**<br>Asset ID: V3012<br>Hemco | **Ventilated Hood Enclosure**<br><br>HEMCO UniMax is a modular, floor-mounted walk-in fume hood designed to isolate large-scale laboratory processes, tall distillation setups, roll-in reactors, and oversized analytical or botanical extraction equipment. Modular Construction: Built with 2-inch thick chemical-resistant composite resin. | Unrated<br>Texas |
| **Water Bath**<br>Asset ID: M21<br>Revolutionary Science | Water Bath - Poly ProBath Model RS-PB-100 S/N 062411E4 | Used - Very Good<br>Morristown, IN |

**Lab/Chromatograph & Mass Spec** **9 Items**

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| **Buchi Pump Module**<br>Asset ID: V2202<br>Buchi | The pump modules C-601 and C-605 are the core components of the BUCHI Sepacore® Chromatography systems. The three-piston pump module with a pulse-free flow rate from 2,5 to 250 ml/min guarantees fast separation at a maximum working pressure of 10 bar (145 psi) or 50 bar (725 psi) for isocratic or gradient mode. These pump modules are the core components of the Sepacore® chromatography systems. Quantity (2) priced separatey | Used - Very Good<br>Texas |
| **Chiller for GC**<br>Asset ID: V2224<br>Thermo Scientific | Thermo NESLAB M33 lab chiller. Last used for a gas chromatograph. | <br>Jacksonville, IL |
| **Chromatography Guard Columns 30x50mm**<br>Asset ID: V3014<br>Buchi | **PurePrep Guard Chromatography Guard Columns**<br><br>Manufactured by Buchi. PrepPure Columns 30 x 50 mm:Silica pore size 60A, part number 11070896. | Unrated<br>Jacksonville, IL |
| **Flash/Prep HPLC Chromatograph Buchi**<br>Asset ID: V2201A<br>Buchi | Buchi C-850 flash chromatography with flash prep. Laser class 1, serial 1100008620. Power 360 watts 100-240 VAC 50/60 Hz. We have four of these - please also visit asset V2201. Columns and pumps also available<br>Pressure & Flow Ranges:<br>• Flash mode: Up to 50 bar<br>• Prep HPLC mode: Up to 300 bar (4,350 psi)<br>The BUCHI® C-850 Pure Chromatography System is extremely compact and can be used outside of the fume hood. Choose from flash systems or combination flash/prep HPLC capable of small to large scale purification of complex mixtures. UV detection is standard or choose to add ELS detection to detect all compounds. Cartridge/ column holders on front of the system, Lowest sample loss for ELSD (30 uL/min). See manual in Link | Used - Very Good<br>Jacksonville, IL |
| **Flash/Prep HPLC Chromatograph Buchi**<br>Asset ID: V2201<br>Buchi | Buchi C-850 flash chromatography with flash prep. Laser class 1, serial 1100039437. Power 360 watts 100-240 VAC 50/60 Hz. We have four of these - please also visit asset V2201A. Columns and pumps also available<br>Pressure & Flow Ranges:<br>• Flash mode: Up to 50 bar<br>• Prep HPLC mode: Up to 300 bar (4,350 psi)<br>The BUCHI® C-850 Pure Chromatography System is extremely compact and can be used outside of the fume hood. Choose from flash systems or combination flash/prep HPLC capable of small to large scale purification of complex mixtures. UV detection is standard or choose to add ELS detection to detect all compounds. Cartridge/ column holders on front of the system, Lowest sample loss for ELSD (30 uL/min). See manual in Link | Used - Very Good<br>Jacksonville, IL |

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| **Gas Chromatograph GC-2010**<br>Asset ID: V2220<br>Shimadzu | **Shimadzu gas chromatograph Model GC-2010 Plus, with accessories**<br><br>Accessories include:<br><br>• Auto Sampler<br>• Auto Injector<br>• Dell Optiplex Computer<br>• Cables<br>• Syringes<br>• New Exhaust Duct<br>• Septa, Injection Port<br>• Manuals<br>We have chiller for this GC also for an additional cost - see asset V2224<br><br>Top end capillary GC analysis, redefining sensitivity limits for trace analysis, fast GC applications, and easy, robust operation | Jacksonville, IL |
| **HPLC Columns PurePrep 250 x 70 mm**<br>Asset ID: V3013<br>Buchi | **PurePrep HPLC Columns**<br><br>Manufactured by Buchi, PurePrep part number 11068647. Silica filled pore size 60A. Size 70mm dia x 250mm long, with default flow rate 100 - 400 mL/min at max pressure 130 bar. Qty (5) - priced separately | Unrated<br>Jacksonville, IL |
| **ICP-OES Agilent Spectrometer**<br>Asset ID: V3010<br>Varian (Agilent) | **ICP OES Spectrometer**<br><br>Varian Agilent ICP OES Spectrometer. Model 720-ES, serial # IP0805M053. Includes: Varian autosampler SP3 , cables, torch chamber parts, tubing & connections, nebulizer, spray chamber, low flow torch, and 1.4 mm torch injector. See attached manuals. On a pallet, shrink wrapped, 41 x 72 x 44 in high, , ready to ship. | Used - Very Good<br>Jacksonville, IL |
| **ICP-OES Spectrometer Thermo Scientific**<br>Asset ID: 8869<br>Thermo Scientific | **ICP Spectrometer**<br><br>The Thermo Scientific iCAP 7400 is a mid-range Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES) designed for precise, simultaneous multi-element trace metal analysis. Serial # IC74RC134819. Includes PC and software. Does not include the water chiller or the auto sampler. The instrument was fully functional when it was taken out of service in the fall of 2023. It is currently loaded on a pallet/shrink wrapped - ready to ship. | Used - Good<br>Nebraska |

**Lab/Rotary Evaporator** — **4 Items**

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| **Rotary Evaporator 20L**<br>Asset ID: 8833<br>Heidolph | **Heidolph Hei-VAP PRO 20L Rotary Evaporator Package**<br>• Hei-Chill 5000 Chiller included<br><br>5 - 8 months of slight usage - essentially like new. Excellent condition, original boxes for glassware and parts.<br>Evap P/N 518-16102-02-0, serial no. 200327336. 230v single phase 50/60 Hz. Chiller P/N 591-00710-01-0, serial No. S200003716<br>Refrigerant R-449A, 220v<br>Quantity (2) - priced separately. Quantity discount if purchasing both | Used - Excellent<br>Jacksonville, IL |
| **Rotary Evaporator, Lab Size 50L**<br>Asset ID: 2354 | **Vertical Condenser Rotary Evaporator 50L**<br>• 50L Rotary Evaporator - voltage 220 single phase<br>• Chiller DLSB-50/30, voltage 220v single phase.<br>• Rotate speed 0-122 rpm<br>• Very few hours<br>• Spare parts package- Does not include vacuum pump<br><br>The rotary evaporator can be rotated under constant temperature and under negative pressure to form a film, and is condensed and recovered in the evaporation solvent. It is especially suitable for concentration, crystallization, separation and recovery of heat sensitive materials. It is an important equipment for scientific research, pilot test and production in bio-pharmaceutical, chemical, food and other industries. | Used - Excellent<br>Tennessee |
| **RotoVap 10L Rotary Evaporator**<br>Asset ID: V2205<br>Across | Rotary Evaporator 10L - Mfg Across 10L rotovac Solvent Vap Model SE26. Serial number 19080690. See data sheet. Cost includes strapped and stretch wrapped on a pallet - any crating would be approx $300 extra<br>The Across International SE26 refers to the Ai SolventVap 2.6-Gallon / 10L Rotary Evaporator with Motorized Lift (SKU: SE26).<br>Key Specifications & Features<br>• Evaporating Flask: 2.6 gallon / 10 liters<br>• Receiving Flask: 1.3 gallon / 5 liters<br>• Rotation Speed: 10 to 130 rpm (digital control)<br>• Water Bath: Ambient to 99°C (210°F) digital water bath with PID temperature control (0.1°C increments)<br>• Power Requirements: 220V, 50/60Hz, 3800W (17.3 Amp), NEMA L6-30 plug<br>• Glassware Material: High-grade 3.3 borosilicate glass with vertical condensers<br>• Gaskets & Valves: Solvent-resistant PTFE and Viton gaskets with all-PTFE valves<br>• Safety Features: Motorized lift, dry-run protection, water bath over-temperature shut-off, and fuse protection<br>• Compliance: ETL tested to UL/CSA standards | Jacksonville, IL |
| **SolventVap Rotary Evaporator 20L**<br>Asset ID: V3007<br>Across | **SolventVap Rotary Evaporator**<br><br>The Across International SolventVap SE53 is a heavy-duty, large-capacity 20-liter (5.3-gallon) rotary evaporator (rotovap) designed for industrial and laboratory solvent distillation, extraction, and recovery Manufactured by Across. Model SE53. Serial # 19040247. Power 220V, 50/60Hz, single phase, 20amp, 4300 Watts. Water bath temperature: ambient to 99 degrees Celsius. Rotation speed is 20 to 130rpm. | Used - Excellent<br>Texas |

| Lab/Scales | | 2 Items |
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| **Balance Scale**<br>Asset ID: 8571<br>Radwag | Radwag electronic analytical balance scale. Max 220g, min 10mg.<br>Analytical balance, Basic line, LCD display, 14-key membrane keypad, ALIBI memory, Readability (g): 0.0001, Min. Sample Weight (g): 0.01, Max. Capacity (g): 220<br>Product Description:<br>The Radwag Analytical Balance from the Basic line is a precision instrument designed for accurate measurements in laboratory settings. Featuring an LCD display and a 14-key membrane keypad, this balance is user-friendly and efficient. The ALIBI memory function allows for data traceability and record-keeping, ensuring compliance with quality standards.<br>With a readability of 0.0001g, this balance can detect even the slightest changes in weight, making it suitable for demanding applications where precision is crucial. The minimum sample weight of 0.01g ensures that even small quantities can be measured accurately. Despite its sensitivity, the balance has a generous maximum capacity of 220g, providing versatility for a variety of experiments and sample sizes. | Used - Very Good<br>Colorado |
| **Precision Balance**<br>Asset ID: M12<br>Mettler Toledo | Mettler Toledo Precision Balance Model AB104-S/FACT, S/N 1127392477. The Mettler Toledo AB104-S/FACT Analytical Balance is ideal for piece counting, percent weighing, dynamic weighing, or free factor use. Weight output can be read as g, kg, mg, carat, etc. Max capacity 110 g, readability 0.1 mg. Has glass draft shield with sliding doors. See brochure in Links. | Used - Good<br>Morristown, IN |

| Material Handling | | 9 Items |
|---|---|---|
| **3D Printer**<br>Asset ID: V3008<br>Craftbot | **3D Printer**<br><br>CraftBot Flow IDEX XL 3D printer. Serial # CB21139612. Fully functional.<br>The Craftbot FLOW IDEX-XL is a large-format independent dual-extrusion (IDEX) FFF 3D printer manufactured by Craftunique,<br>Key Specifications & Features<br>• Build V<br>• Total print area: 425 x 250 x 500 mm<br>• Single head print: 386 x 250 x 500 mm<br>• Dual head print: 351 x 250 x 500 mm<br>• Mirror mode: 396 (2 x 198) x 250 x 500 mm<br>• Parallel mode: 425 (2 x 212.5) x 250 x 500 mm<br>• Extruders: Independent dual extrusion (IDEX) with dual-drive gears and all-metal hotends reaching up to 300°C.<br>• Print Bed: Heated bed (up to 110°C) combining metal, tempered glass, Kapton, and a magnetic flexible top plate.<br>• Leveling & Sensors: Automatic mesh bed leveling, filament monitoring system (FMS) for runout/jams, and power/print resume.<br>• Electronics & Control: 32-bit PR3DATOR motherboard, 5-inch color touch screen, Raspberry Pi HMI engine, Wi-Fi, USB, internal storage (4GB), and a built-in camera for web/IoT monitoring.<br>• Materials Supported: Handles PLA, ABS, PET-G, nylon, PVA (soluble supports), and TPU. | Unrated<br>Texas |
| **Bulk Bag Unloader**<br>Asset ID: BBU-108<br>Camcorp | Camcorp Bulk Bag Unloader Model BHU4000-H, 2000 pound bag capacity | Illinois |

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| **Compressor Oil Gas & Process**<br>Asset ID: B2096<br>Atlas Copco | Gas & Process Fluid VG 32 compressor oil, Atlas Copco PN6970390628 fill date March 5, 2021. NEW 55 gallon drum. Only one barrel remaning. | NEW<br>Peoria, IL |
| **Compressor Oil Turbo**<br>Asset ID: B2095<br>Atlas Copco | Atlas Copco compressor oil, Turbo Oil Plus, PN6970298402, VG46 55 gallon drums. Fill date was Mar 26, 2021. New. Qty (8) - priced separately | NEW<br>Peoria, IL |
| **Loadout arm**<br>Asset ID: BD-1509<br>Emco Wheaton | Loadout Arm by Emco Wheaton Size 3/4 Model E2313 with Viton Seals | <br>Illinois |
| **SS Skid on Rollers**<br>Asset ID: V2242 | Stainless steel 304 skid on heavy duty rollers, 4" square tubing. Approx size 80 inches x 10.5 ft x 1 ft tall | <br>Texas |
| **SS Skid on Rollers**<br>Asset ID: V2240 | Stainless steel 304 skid on heavy duty rollers, 4" square tubing. Approx size 7 ft x 10.5 ft x 1 ft tall. Qty (4) priced separately | <br>Texas |
| **Stainless Steel 55 Gallon Drums**<br>Asset ID: 2051 | 55 gallon drums - stainless steel 304. 15 stainless barrels (drums) available. All 15 are smooth. There are 5 lids available that have plugs. Please see photos.- some photos show smooth lids, but those are no longer available. Priced by the drum (minimum order 3 drums). Quantity (15 ) total. Pk6020 | Used - Excellent<br>Northern US |
| **Truck Axle Weigh Scale**<br>Asset ID: 8572<br>Walz | **Portable Truck Axle Weigh Scales**<br>Walz weigh pads (2) plus M6-A indicator panel. Axle Scale Features:<br>• 60,000 lb+ axle capacity axle scale<br>• Pad dimensions: 31.5" X 17"<br>• Quality, durable aluminum construction<br>• Water resistant design | Used - Very Good<br>Colorado |

**Material Handling/Biomass Handling** — **1 Items**

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| **Plug Screw Feeder**<br>Asset ID: B-1011<br>Valmet | **Valmet Plug Screw Feeder with Pre-Compression Screw and Shredder**<br><br>**These units are NEW old stock, never used**<br>Designed for infeed raw material chips density 100 kg/m3, moisture content 20-48%<br>Design flow rate 530 dry tons per day soft wood chips (500 BDST/D); Max capacity 1000 BDST/D; Turndown rate 50%<br>**Valmet plug screw feeder**<br><br>• Fed by a pre-compression screw section, and 48" shredder at outlet<br>• 850 HP Siemens motor 1750 rpm 460v 3/60<br>• Gear Reducer ratio 25:1. Nominal speed 69 rpm, range 35-105 rpm<br>• Skid size approx 25 ft long x 7 ft wide x 4.6 ft tall. Total weight including motor 45,400 lb<br>• Inlet 35.83" x 25.79"<br><br>**Pre-compression screw**<br><br>• Materials of construction stainless steel 304L for all contact parts<br>• Sits on top of plug screw at 90 degrees with s 24" diameter- top force feed<br>• Capacity Volume/Revolution inlet/discharge: 45 L / 22.5 L. Capacity / revolution at 110 kg/m3 = 5.46 BDST/D and net max capacity at 110 kg/m3 = 530 BDST/D<br>• 250 HP motor 1750 rpm 460v 3/60 v-belt drive to gear reducer V-belt reduction 1:52<br>• Gear reducer SEW Eurodrive ratio 18:1. Final rpm nominal speed 65 rpm, range 45-97 rpm<br>• Overall size approx 15.2 ft long x 7 ft wide x 5.8 ft tall, weight 17,300 lb<br>• Outlet: 35.83" x 25.79"<br><br>**T-Pipe 48" Shredder**<br><br>• Fed from plug screw feeder 24" biomass inlet<br>• MAWP 350 psig at 800F<br>• 100 HP motor 1750 rpm 460v 3/60<br>• Gear reducer 8.9:1 for nominal 197 rpm<br>• Shredder size approx 5 ft x 10.6 ft x 9.3 ft tall, weight 23,650 lb<br>• Outlet 24" flange 600#<br><br>**Condition** - These units are sealed against weather, protected, and in long term storage inside a third party protected warehouse. No known refurbishment required - assets are sold As Is Where Is. | New, Old Stock<br><br>Georgia, USA |

| **Material Handling/Fork Lifts & Hoists** | | **5 Items** |
|---|---|---|
| **Chain Hoist 10 Ton**<br>Asset ID: B2074<br>Chester | Chester 10 Ton Chain Hoist with trolley, manual. Model Zephyr, SN ZLG-7175. NEW, Old Stock. Low headroom trolley hoist. Approx size for shipping 29" x 50" x 36" high | New, Old Stock<br><br>Peoria, IL |

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| **Forklift 3,000 pound Propane**<br>Asset ID: V3005<br>Toyota | **Forklift**<br><br>Toyota 7FGU15 is a 3,000-pound capacity propane internal combustion pneumatic-tire (or cushion-tire) propane (LPG) forklift built as part of Toyota's durable 7-Series lineup. Serial # 60284. | Unrated<br>Texas |
| **Gantry & Electric Hoist 1 ton**<br>Asset ID: V3004 | **Gantry and Electric Hoist**<br><br>Gantry and electric hoist. Electric hoist is manufactured by Pro Inch. Model PWX2200. Capacity is 1 ton (2,200 lbs). | Unrated<br>Texas |
| **Gantry & Hoist (Manual)**<br>Asset ID: V3003<br>Strongway | **Gantry Crane and Manual Chain Hoist**<br><br>Strongway gantry crane and manual chain hoist. A complete overhead lifting system. 1/2 ton capacity. | Used - Excellent<br>Texas |
| **Scissor Lift**<br>Asset ID: V3006<br>JLG | **Scissor Lift**<br><br>JLG Scissor lift. Model 2632ES. Serial # 0200248928 Key Specifications:<br>• Platform Height: 25 ft 6 in (approx. 26 ft)<br>• Working Height: 31 ft 6 in to 32 ft<br>• Machine Width: 2 ft 8 in (32 inches), allowing it to fit through standard doorws<br>• Overall Length: 91 in,<br>• Stowed Height: ~7.8 ft (92 inche<br>• Operating Weight: 4,635 lb<br>• Platform Capacity: 500 lbs (unrestricted) / up to 800 lbs<br>• Platform Extension: 3 ft (36 inches)<br>• Gradeability: 25%<br>Performance & Features<br>• Electric Drive System: Uses a DC electric drive motor (24V system with 4x6V 220 Ah batteries) that delivers up to double the battery life of standard scissor lifts. | Used - Good<br>Texas |

| Material Handling/Hoppers & Weigh Scales | | 6 Items |
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| **Base with Load Cells**<br>Asset ID: AF3<br>Sartorius | Steel machine base with 3 load cells at 120 degrees apart. Base dimensions 80" x 80" on legs 28" tall. Construction is carbon steel 6" I-Beams. Load cells are Sartorius Type PR6011/30N by Sartorius Mechatronics, made in Germany. Rated at 10,000 kg each. New name Minebea Intec PR6011/30N. See dataweigh.com and brochure in Links. | Used - Fair<br>Illinois |
| **Hopper 100 cu ft sloped outlet**<br>Asset ID: 8853 | NEW, open top hopper square with 30 degree taper bottom to center, on legs including platform on one side. Size 53” w x 55” long x 72” OAH. Capacity approx 100 cu ft. On 4 Rice Lake load cells. Direct drive external screw conveyor approx. 3” dia x 10 ft long, driven by 1 HP motor 1145 rpm with Nord 33:1 gearbox. 460v 3/60. | New, Old Stock<br>Alberta Canada |

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| **Hopper 350 cu ft with Screw Conveyor**<br>Asset ID: 8852 | **Hopper with Separate Screw Conveyor**<br><br>**Hopper:** NEW, open top hopper on legs, carbon steel. Size is 126” w x 77” long x 144” OAH. Capacity approx 350 cu ft. Hopper has 60 degree taper at bottom to an internal screw driven by 1 HP vertical gearmotor. and dropping into an external drag conveyor approximately 12 ft long driven by a 1 HP vertical gear motor. Has end opening square manhead. Built in 2022, NEW, never used. Has been in weather so would need to be blasted and painted.<br>**Screw Conveyor:** Includes a separate Screw Conveyor (auger): Screw conveyor 5.25” dia x 17 ft long, belt driven by 3 HP motor 230/460v 3/60 at 1760 rpm and Dodge speed reducer ratio 14.91:1 (final rpm 62. Manufactured by Nordstrong. Designed for 18 cu ft/min (cfm) of product density 42 lb/cu ft. Conveyor designed for a 30 degree inclination.<br>**Hopper Stand**: Hopper structural steel stand with 4 Rice lake load cells. Carbon steel.<br><br>**Price incudes all 3 pieces** | NEW<br>Alberta Canada |
| **Hopper 590cf**<br>Asset ID: AF7 | Hopper feeder with screw conveyor under (see asset F5). Carbon steel. Hopper size 122" x 122" x 41" deep with 45 degree slope 52" deep to flanged outlet slot. Approx capacity 590 cu ft. On legs 11 ft long for OAH approx 18.75 ft. Has bin vibrators on side and VibraRod vibratory level sensor on top. Closed top with approx 18" round inlet to accept drop from conveyor or feed. | Used - Good<br>Illinois |
| **Multi-Head Weigher**<br>Asset ID: 8812<br>JDA Process Packaging | **Multi-head Weigher**<br><br>Model RS10 used for high-speed particulates. Proprietary hopper / feeder design eliminates flow control variables. Weigh mode retained with each program - switch from grams to pounds to ounces, etc. at the touch of a key. Includes all linear plates, feed buckets, weigh buckets and funnel plates.<br>Specifications:<br>• Resolution: 1 /100 oz. (1 /10 gram)<br>• Capacity: 1 lb. (500 gram) standard to 5 lb. (2.5 kg) optional<br>• Hopper size: 1.75 cubic feet (50 liters) standard to 12 cu. feet (340 liters) optional<br>• Electrical: 220 volt, single phase, 1 amp, 60 hertz<br>• Air requirements: 60 psi, less than 1 /10 cfm<br>• Speed: 10 - 18 cycles per lane per minute at 2/10% (.2%) accuracy | Used - Good<br>Colorado |
| **Weigh Scale and Belt Conveyor**<br>Asset ID: P0102<br>Ramsey | Weigh scale belt mounted. Ramsey model XR-125. Designed for soybean at density 0.72 t/m3, flow rate 50 T/H. Belt width 600mm, motor 1.1kw. 2.2kw (3HP), 460V,60Hz. IP54. Idle since 2006 | Used - Fair<br>New York |

| Material Handling/Mills & Hammermills | | 7 Items |
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| **Fine Grind Air Swept Mill**<br>Asset ID: 2037<br>Stedman | Stedman fine grind air swept mill, Model Micro Max 5400. Carbon steel. Designed for 5-7 tons/hr of Hi-Cal limestone, feed size 3/8". Output was set at 200 mesh. Sometimes got to 300 mesh. Chamber approximate 55" diameter. Double rotor. Serial no. MM010. Driven by 400 HP motor 3/60/460v 1790 rpm. **Comes with 400 HP soft start** | Used - Good<br>Illinois |

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| **Hammermill 75HP**<br>Asset ID: P130<br>Jiangsuzhengchang Grop Corp | Hammermill model SFSP112x30. Capacity 4.5-9 ton/hr. Rotor dia 1080mm, body width 300mm. Main shaft speed 1480 rpm. Hammers 4x8 = 32. Overall size 1741L x 1360w x 1550H mm, weight 1340 kg. 55kw (75HP),460V , 60Hz, IP54 | Used - Fair<br>New York |
| **Hammermill System 300HP & Baghouse**<br>Asset ID: 8235<br>Bliss | **Bliss Hammermill - NEW MCE XM4436, Extra Heavy Duty Mill Design with Baghouse and Handling**<br>• Bliss 44" dia x 36" wide rotor hammermill. Direct drive, gravity discharge; 4,320 sq in screen area, Motor base extension, reversible top feed inlet, screen carriage; mild steel construction with AR liners. Hammers: hard faced, heat treated, one (1) set included; one (1) set of screens included, #4 or #5. Tighter hammer to screen clearance than a standard Bliss 4436 for a finer grind and better particle size distribution. Included: top feed inlet, mill and motor support base, three NEMA 4/12 limit switches, OSHA guard, vibration switch and rubber vibration pads<br>• Main Drive Motor, 300 HP 1800 RPM, 460 V/3/60, TEFC severe duty, 447/449T frame; mounted and coupled to the mill<br>• Rotary Feeder, 10" Nylon Cup, 9 Row (36")<br>• Plenum Chamber with Support Structure, for XM4436<br>• 64-8 Pulse Jet Baghouse Filter, Plenum Mount, 64 bags 6" x 8 ft. 804 sq ft.5,616 cfm<br>• Exhaust Fan, Filter Mounted, 15 HP<br>• Plenum Discharge Screw Conveyor, 12" x 16 ft<br>• Heavy Duty Rotary Airlock, 18"<br>• Air System Ductwork<br>Allow 12 to 14 weeks after receipt of order. | NEW<br>Oklahoma |
| **Hammermill System 300HP & Baghouse**<br>Asset ID: 8236<br>Bliss | **Bliss Hammermill 3848TF- Reconditioned. Extra Heavy Duty Mill Design with Baghouse and Handling**<br>• Bliss 38" dia x 486" wide rotor hammermill. Direct drive, gravity discharge; 4,800 sq in screen area, Refurbished and shop tested before shipment. One set of screens included, #4 or #5; the 38" rotor grinds coarser than a 44" mill, #4 recommended for flour<br>• Main Drive Motor, 300 HP 1800 RPM, 460 V/3/60, TEFC severe duty, 447/449T frame; mounted and coupled to the mill<br>• Rotary Feeder, 10" Nylon Cup, 12 Row (44")<br>• Plenum Chamber with Support Structure, for 3848TF<br>• 100-6 Pulse Jet Baghouse Filter, Plenum Mount, 100 bags 6" x 6 ft. 942 sq ft.56,240 cfm<br>• Exhaust Fan, Filter Mounted, 20 HP<br>• Plenum Discharge Screw Conveyor, 12" x 17 ft<br>• Heavy Duty Rotary Airlock, 18"<br>• Air System Ductwork, 15" dia x 50 ft.<br>Allow 12 to 14 weeks after receipt of order. | Reconditioned<br>Oklahoma |

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| **Pin Mill Impact Mill**<br>Asset ID: M2002<br>Sturtevant | **Pin Mill - Centrifugal Impact Mill**<br><br>Sturtevant Model 3B Simpactor Mill, 16" diameter, carbon steel construction. Set up with 6" x 6" flanged inlet with 6" diameter center bottom discharge. Includes 2-part rotating discs, driven by 10 HP inverter motor, rated for 230/460 V, 3-phase, 60 Hz, 3425 RPM. Includes v-belt drive with guard. Serial number 504.<br>The Simpactor® pin mill is a centrifugal impact mill that reduces low to medium density materials to uniform, fine particle sizes of 50-325mesh.The Simpactor® is used in milling applications where low maintenance and low wear are critical. Typical Simpactor® milling applications include food product processing such as corn fractionation, flours, starch densification, corn slurry, sugar and sweeteners. Semi-abrasive material applications including aluminum sulfate, fertilizer, gypsum, soda ash, deagglomerate powders including tungsten), talc, clay and kaolin | Used - Good<br>California |
| **Pin Mill Impact Mill**<br>Asset ID: M2003<br>Sturtevant | **Pin Mill - Centrifugal Impact Mill**<br><br>Sturtevant Model 3B Simpactor Mill, 16" diameter, carbon steel construction. Set up with 6" x 6" flanged inlet with 6" diameter center bottom discharge. Includes 2-part rotating discs, driven by 10 HP inverter motor, rated for 230/460 V, 3-phase, 60 Hz, 3425 RPM. Includes v-belt drive with guard. Serial number 703.<br>The Simpactor® pin mill is a centrifugal impact mill that reduces low to medium density materials to uniform, fine particle sizes of 50-325mesh.The Simpactor® is used in milling applications where low maintenance and low wear are critical. Typical Simpactor® milling applications include food product processing such as corn fractionation, flours, starch densification, corn slurry, sugar and sweeteners. Semi-abrasive material applications including aluminum sulfate, fertilizer, gypsum, soda ash, deagglomerate powders including tungsten), talc, clay and kaolin | Unrated<br>California |
| **Wood Grinder**<br>Asset ID: 7444<br>Arasmith Mfg | **Wood Grinder**<br><br>Arasmith MFG. Co. - Service No. 34.30.HH.1517.596 14.HT.2ADW/8 HAS2<br><br>• Infeed opening 30" x 18"<br>• Powered by 100 HP Lincoln AC Motor, TEFC Energy Efficient, RPM 1765, Frame 405T, Volts 230/460, Amps 226/113, 3 Phase, 60 Hz<br>• Safety switches on all guards and doors to shut the machine off and not allow to turn on when guards or inspection doors are opened.<br>• Wood Grinder has been reconditioned and owner says it is in great working condition. Customer will have to make that decision. We are selling As Is Where Is.<br>• This grinder was being used to make mulch. | Reconditioned<br>Illinois |

**Misc** — **4 Items**

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| **Ammonia Sensors (5)**<br>Asset ID: S4055<br>Sierra Monitor Corp. | **Ammonia Sensors**<br>The SMC 5100-25-IT is a toxic gas detector within the SMC Sentry IT platform, designed to monitor for ammonia. It can be used as a standalone 4-20 mA device or as a Modbus RTU node within a larger system. The detector features an integral LED display for easy access to gas concentrations, relay statuses, and diagnostics. It also has a menu-driven system for configuration and a long calibration interval, reducing maintenance costs. Priced separately. | Unrated<br>Illinois |
| **Ball Bearing**<br>Asset ID: O15<br>Rollway | Rollway Ball Bearing 6208NR. Radial/Deep Groove Ball Bearing-Round Bore, 40 mm ID, 80 mm OD. New - in box. New, old stock. 3 available, priced separately. | Unrated<br>Jacksonville, IL |
| **Swimming Pool Heater/Dehydrator**<br>Asset ID: 8872<br>Seresco | **Seresco Dehumidifier, Heating and A/C Unit**<br>Indoor dehumidifier, heating & A/C unit. Model NE-006.208/1/60v. Rate at 6 tons. Controlled with a command center keyboard. Outside air inlet with a motorized damper and filter (400cfm). Uses R-410A refrigerant. Unit mounted hot water heating coil. Heat control is modulating and comes with factory supplied wired valve. The airflow is 2500 CFM. This also includes an outdoor air cooled condenser. Model NC-Z-1V. 208/1/60v.<br>tilizes direct-drive EC motor plenum fans (no belts to maintain), fully corrosion-protected dipped coils, and a separated service vestibule to isolate critical electronic and refrigeration controls from chlorinated | Unrated<br>Alberta, Canada |
| **Throttle screw insert**<br>Asset ID: O46<br>Bosch | Rexroth Bosch 0821201106 Throttle screw insert, pneumatic replacement part. (2) available, priced separately | New, Old Stock<br>Jacksonville, IL |

| **Mixers** | | **3 Items** |
|---|---|---|
| **Mixer**<br>Asset ID: AG-110<br>SPX Lightnin | SPX Lightnin mixer model 14S1, Last used as FD-DE Pre Coat Mixer | <br>Illinois |
| **Mixer**<br>Asset ID: AG-213<br>SPX Lightnin | SPX Lightnin model X5S150 agitator, Last used as Hydrolysis Decanter Mixer | <br>Illinois |
| **Mixer**<br>Asset ID: V4008<br>Sharpe | Sharpe mixer. Model FGV-050. Serial # 62733-1<br>The Sharpe Model FGV-050 is a 1/2 HP gear-driven portable industrial mixer manufactured by Sharpe Mixers (now a brand of EBARA HG / Hayward Gordon ULC).<br>Key Specifications<br>• Horsepower: 1/2 HP ("050" designates 0.50 HP)<br>• Drive Type: Gear drive (providing higher torque at lower RPMs for higher-viscosity fluids or larger volume tanks compared to direct-drive units)<br>• Series: F-Series / Gear-Duty Portable Line (featuring stainless steel wetted parts, full gasket housings, and vapor seals) | Unrated<br>Illinois |

| Mixers/Blender | | 1 Items |
|---|---|---|
| **Ribbon Blender, Double 155 cf**<br>Asset ID: 2044<br>Gurdin | Chuck Gurdin double ribbon blender mixer, stainless steel. Insulated. Also comes with load cells scale. Speed adjustable with VFD. Capacity 155 cu ft. Approx size 55" x 168" long x 90" tall. Drum dimensions 44" wide x 120" long x 53" high. Driven by 25 HP motor 1755 rpm with Dodge gear reducer. Clearance Height from ground to discharge port is 30"-32". Part of an entire CBD extraction system - enter PK6020 to see all components. | Used - Very Good<br>Northern US |

| Office/Ink & Toner | | 1 Items |
|---|---|---|
| **Toner Cartridge**<br>Asset ID: 1299<br>Katun | Toner Cartridge - Minolta DI-450/470/550 Katun Performance - 8936-902 Black (Copier) | Unrated<br>Jacksonville, IL |

| Oil Processing/Bleaching | | 2 Items |
|---|---|---|
| **Bleacher - 150 TPD Stainless**<br>Asset ID: 5718<br>DeSmet | DeSmet stainless steel vacuum bleacher for continuous bleaching. Total capacity is 150 tons per day. Size 5' diameter with 3.5" insulation, 14' tall. Demister pad section 4' diameter x 5' tall. OAH 19 feet. Includes 2 Krohne stainless steel mechanical flowmeters, one 1" and one 2". Includes additional side mounted small vessel and RTD for level control. Small vessel dimensions 1' diameter x 8' tall with 2" inlet. Includes 2 Masoneilan stainless steel 2" pneumatic control valves. Vacuum unit not available. Includes operators manual. Idled 2014. We have quoted removed and loaded but removal is an estimate. If serious, we can get a quote. | Kingston, Jamaica |
| **Bleaching System**<br>Asset ID: R255<br>FFEC | Bleach system. Bleaching tower rated at -30mbar at 120C. Volume 4.9 m3, material 304 stainless steel. Bleaching tower size 10" dia x 80" tall. Weight 1695 kg. Including pre mix tank, size 4 ft dia x 205" tall insulated stainless steel. Clay slurry tank is 42" dia x 40" shell, carbon steel. Recirculation pump is 3kw. Incudes vacuum pumps Graham vacuum pump, Liquid Ring model 3PV31110/13/DD, ser no. 05-61976-1. Motor 5HP. Suction flow 126 acfm. | New York |

| Oil Processing/Deodorizer | | 2 Items |
|---|---|---|
| **Deodorizer 350 STPD (partial)**<br>Asset ID: 8233<br>Crown | **Crown Continuous Deodorizer 350 STPD (partial) NEW, old stock**<br><br>Major pieces to a deodorizer system, built in Malaysia and never used. The system can be used for deodorization in chemical refining or deacidification and deodorization in physical refining. Designed originally for a plant in the USA and built to all USA design standards. Supply of this equipment includes<br><br>• Deodorizer, double shell packed column stainless steel 316. with heat bleaching section and integrated vapor scrubber. (70% complete)<br>• Post Deodorizer. Packed column ss 316 (80% complete)<br>• Deaerator. Packed column type for full vacuum operation, stainless steel 304L. (80% complete)<br>• Distillate Receiver. Vacuum vessel, dished ends 304L stainless (80% complete)<br>• Chilled Loop Vacuum System. For absolute pressure 1.1 to 1.3 Torr absolute. Hot well tank and glycol tank (70%/90% complete)<br>We are selling this partial system - ready for shipment or completion. Specs and details available for this partial system, and for completion/cost of entire deodorizer on request. | New, Old Stock<br>Malaysia |

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|---|---|---|
| **Deodorizer 50 TPD**<br>Asset ID: R306<br>FFEC | Deodorizer system, main unit is 5' dia x 26 ft tall, stainless steel.Includes. Capacity 50 TPD (5,000 lbs/hr) Uses hot thermal oil in heating tray/coils. Built 2002, idled 2006. Complete systemincluded.<br>• 4-stage steam ejector vacuum system (R314)<br>• Deaerator vertical tank carbon steel 24" dia x 7 ft tall (R302)<br>• Citric acid tank stainless steel vertical 28" dia x 51" tall (R206A) | Used - Fair<br>New York |

## Oil Processing/Fractionation & Winterizing — 1 Items

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| **Fractionation System 118 MTPD**<br>Asset ID: PK-1200<br>DeSmet | **Fractionation Systems Pressure 30 bar**<br>TWO complete systems including all tanks, pumps, heat exchangers, fitters, piping and controls. Footprint of BOTH systems is 50 ft x 67 ft x 28 ft tall. Operated in USA until 2007, relocated to Guadalajara in 2010. Installed & never restarted. Photos are US installation. Video Virtual Tour taken in Sept 2024.<br>**78 MTPD System**<br>Fractionation system - DeSmet, rated at 30 bar (450 psig). Built 1997. Includes (18) vertical crystallizers and membrane filter with 69 plates polypropylene. Capacity 78 MTPD based on first fractionation soybean oil – OR - 18 MTPD OUTPUT based on 2nd Fractionation = 10.5 million pounds product + 3.5 million pounds by-product.<br>• Membrane filter made by Industrieterrein Wijngaardveld AALST, Belgium. Serial 150 10. Type OGFP1500, rated at 30 bar. Has 69 plates, 1500mm x 1500mm. Filter cake volume = 2,875 liters (759.5 gallons). Filter area 255 sq m, with 25mm cake per cavity. Automatic with plc/HMI. Hydraulic system with dual acting cylinder.<br>**40 MTPD System**<br>Fractionation system - DeSmet. System built 2000. Includes (6) vertical ss crystallizers and Filox membrane filter with 36 plates polypropylene. Capacity 40 MTPD based on 1st fractionation Soybean – OR - 5 MTPD OUTPUT based on 2nd Fractionation = 2.5 million pounds product + 1.5 million pounds by-product. Stainless steel trough and auger system.<br>• Filox membrane filter rated at 30 bar (450 psig). Made by Filox - Filtertechnik Gmbh, Germany. Type MKF150-36-250H, serial 2117. Has 36 polypropylene plates, 1500mm section - cake volume 1500 liters, cake thickness 25mm, 40.5 sq m filter surface area. Automatic with plc/HMI. Hydraulic system with dual acting cylinder. Hydraulic unit 15HP. Size 6535mm lx 2820mm x 2610mm tall, weight empty 34,785 kg. J4744 FRAC1<br>NOTE: Missing a 25 ton and an 80 ton chiller that will have to be replaced for a full system. Capacity will vary depending on feedstock | Used - Very Good<br>Mexico |

## Oilseed Processing — 4 Items

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|---|---|---|
| **Dehuller**<br>Asset ID: 2344 | **Impact Dehullers**<br><br>These impact dehuller are custom made to resemble Codema VSH-2096. They are robust and last used in the hemp industry. The builder made it a little easier to clean out. Capacity was approx. 400 lbs./hr. each for whole grain hemp. Other trials suggest that other grains would be 800 lbs./hr. or more, depending on grain. Direct drive by 3 HP motor 1100 rpm 460v 3/60. Idled in 2021. Hullers are 37" tall on top and 51" bottom cone, 32 1/2" wide/diameter. Inside of huller is 27 1/2". Inlet size 4", outlet size 2 x 5" (18 inch center to center). Selling grey/white dehuller only - does not include grader underneath.<br>Previous use was on hemp, throughput would be around 400lbs per dehuller per hour. They can run other grain.<br>Qty (1) gray dehuller see pictures.. | Used - Very Good<br>Winnipeg, Canada |
| **Gravity Separator**<br>Asset ID: 2345<br>Forsberg | Forsberg Inc. Vacuum Gravity Separator, Model 50V. Carbon steel, and wood construction. 19 Square feet deck area. Driven by a 1/2 hp, 3/60/208-230/460 volt, 1725 rpm motor. Manual speed adjustment. End feed, side discharge with divider blades for heavies, mediums, lights, and cull discharge. Idle since 2021, stored in protected warehouse. serial 5239, Forsberg 50V rated at 6000 lbs/hr for grains, physical size 64" x 106" x 83" tall. Last used for hemp | Used - Good<br>Winnipeg, Canada |
| **Meal Cooler w/ Cyclones**<br>Asset ID: P131<br>Geelen Counterflow | **Geelen Meal Cooler, Vertical Gravity Flow**<br><br>Counterflow Meal cooler type 010226, serial 5176-01-2002. model VK19x24KL. With cyclone 6 ft dia x 5 ft shell (top dia is 2ft). 32" tall. Includes blower fan, ducting, cyclone.<br><br>• Dimensions: The "19x24" designation indicates an internal deck/bin dimension of 1.9 meters by 2.4 meters.<br>• KL (Swivel Valve): Typically signifies that the unit utilizes Geelen's hydraulic swivel valve discharger mechanism. This grid is designed to handle products of varying shapes and sizes cleanly without clogging or product damage<br>• Counterflow Efficiency: Air is drawn upward from the bottom while the hot product travels downward via gravity. This provides highly efficient heat transfer, using up to 30% less cooling air and 50% less footprint compared to horizontal belt coolers.<br>• Evaporation & Moisture Control: Cools products to within 5°C of ambient temperature while managing moisture evaporation to optimize product quality and density.<br>• Hygienic Design: Features a vertical gravity-flow setup that minimizes dust build-up and completely eliminates horizontal surfaces, drastically reducing cross-contamination risk<br>Priced for complete system. | New York |

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| **Soybean Extrusion Line Wenger**<br>Asset ID: PK-5055<br>Wenger | **Soybean Extrusion Line by Wenger - NEW, Never Installed**<br><br>Designed to process soy white flakes into textured soy protein at 1600 kg/hr. Can produce blown, chunks, flakes, or mince as a flour or concentrate. This system is new – never installed. Still in original packaging stored indoors. System is still supported by Wenger and they are available to help with installation, commissioning, and training.<br>Flours are made from defatted soy flour having protein content no less than 52%, crude fiber content no greater than 3%, oil content no greater than 1%, and protein dispensability index (PDI) between 50 and 70%, and particle size 100% passing US 80 mesh standard sieve.<br>Concentrates are made from from soy concentrate having protein content of no less than 68%, crude fiber content no greater than 4%, oil content no greater than 1%, and particle size 100% passing US 80 mesh standard sieve.<br>**Includes**<br><br>• Dump Stations<br>• Dry Material Feeders<br>• Raw Material Mixing System<br>• Sifter<br>• Wenger Model 115 Mag ST Twin Screw Extruder with 450 HP motor<br>• Wenger Model 450 High Intensity Preconditioner<br>• Urschel Comitrol Wet Mill<br>• IPA Flake Mill<br>• Wenger Modular Design Horizontal Dryer/Cooler<br>• Vibrating Screener<br>• Elevating Bucket Conveyor<br>• Great Western Sifter<br>• Fines Recovery Conveying System<br>• Fines Hammermill<br>• Controls<br><br>Does not include:<br>-Silos<br>-Storage Tanks<br>-Metal Detector<br>-Heated Air System<br>-Vacuum Conveying System<br><br>**See asset PK-5065 for the bagging line that was designed for this system (sold separately).###** | New, Old Stock<br><br>Iowa |

| **Oilseed Processing/Conditioner** | | **2 Items** |
|---|---|---|
| **Oilseed Dryer**<br>Asset ID: P105D<br>Belt-O-Matic BNW | Belt-O-Matic oilseed dryer, capacity 4 tons/hr. Natural gas fired bean dryer BNW model 320B2. Heat source is natural gas two-pass with 20 HP fan, and a 9 ft cooling section at bottom. Rated at 5 MMBTU with max air flow 20,000 cfm. Fan HP 20HP 460v 3/60. Idled since 2006 | Used - Fair<br><br>New York |

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| **Seed Conditioner Cooker**<br>Asset ID: P0115<br>FEC China | Vertical seed conditioner (cooker). Jacketed, seven trays. Body atmospheric at 200C, material Q235-A. Jacket pressure 1.2 Mpa at 200C. Rotating speed 13 rpm. Motor 55 KW (75HP) 60/3.. Incudes cooker agitatorFlender vertical agitator for vertical cooker. 55kw motor (asset record P115B). Idled in 2006 | Used - Fair<br>New York |

## Oilseed Processing/Cracking Mill — 2 Items

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| **Cracking Mill**<br>Asset ID: P107<br>Zhuanghee City Roller factory | Cracker rolling mill - sized for 300 tons/day. Speed adjustable from 60-500 rpm. Roller size 400mm dia x 1000mm long. Physical size 2060 x 2450 x 2450mm, weight 6000 kg. 15kw X 2 main motors +0.55kw feeder. Idled 2006<br>The Zhuanghee YPSG40 cracking mill (commonly referred to in international trade markets as the YPSG series double-pair tooth roller cracker/peeler) is a heavy-duty industrial pretreatment machine primarily designed for oilseed crushing and extraction plants | Used - Fair<br>New York |
| **Cracking Mill**<br>Asset ID: S3164<br>Ferrell Ross | Ferrell Ross double stack cracking mill 12x52. Roller mill Cracker is rated at 825 tons/day. Unit has been removed - ready for loading. Price includes loading on a flatbed. | Used - Good<br>Illinois |

## Oilseed Processing/Flaking Mill — 2 Items

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| **Flaking Mill**<br>Asset ID: S3155<br>CPM Roskamp | Roskamp flaking mill SP2800-62 with 150HP motor, rated at 330 tons/day. Has 28 inch diameter x 62 inch long centrifugally cast chilled iron rolls. See brochure in Links. Removed and ready to load, price includes loading onto flatbed truck. | Used - Good<br>Illinois |
| **Flaking Mill**<br>Asset ID: P112<br>Zhuanghee City Roller factory | Hydraulic flaking roller mill (Presser). Flaker Size 2 x 800mm x 125mm turning at 240 rpm. Motors missing (was 37kw) . Process capacity 160-200 tpd. Output flakes 0.25 to 0.35mm. Overall size 1970L x 1640W x 2386H., weight 12 ton 37kw X2, 0.55kw+1.1kw<br>The YYPY2 series hydraulic flaking mill is heavy-duty industrial processing equipment used primarily in vegetable oil extraction and grain pretreatment plants to flatten oilseeds like soybeans, peanuts, and cottonseed into uniform flake | Used - Fair<br>New York |

## Oilseed Processing/Shaker & Screener — 2 Items

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|---|---|---|
| **Grader Drum Screener**<br>Asset ID: 2346<br>Triple S Dynamics | Triple/S thickness graders - drum screener. Idle since 2021. We have 5 total - priced separately<br>• (3) are Triple/S Dynamics Model E50-1R, serial # CS.7629,7627,7630 (single drums approx 18" dia)<br>• (1) double screen Triple/S Dynamics E50 double screen grader<br>• (1) T50 grader.<br>All have 18 inch drums, all the same size 4.25" - 4.75" slot sized screens. Driven by 460v motor 3/60.1.5 HP and a 1/2 HP on shaker pan. | Used - Good<br>Winnipeg, Canada |
| **Seed Cleaner Shaker**<br>Asset ID: P111<br>Kaifeng No. 2 Grain Machinery Factory | Seed cleaner screener with cyclone and blower – carbon steel. Sieve size 150w x 200L cm. Capacity for cleaning 100 t/h. Air consumption 160 m3/min at 50 mmH2O. Quantiry (2) - priced separately | Used - Fair<br>New York |

## Packaging — 6 Items

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|---|---|---|
| **CD Case Feeder**<br>Asset ID: E2363<br>EAM | CD Case Feeder;  pneumatic on turn table; Manufactured by EAM | <br>Jacksonville, IL |
| **Chain Wheel Sprocket, Labeler**<br>Asset ID: O50<br>Krones | Chain Wheel / Sprocket 0002091838 1-703-29-038-0 for Krones labeler | New, Old Stock<br>Jacksonville, IL |
| **Dyna Pack (Hot Glue)**<br>Asset ID: 6150<br>ITW Dynatec | ITW Dynatec, Dyna Pack (Hot Glue), 4-line capability currently equipped w/ two (2) programmable heads (6 ft hose, Part # N2306, Serial No. 93468, 230 Volt), TPC-9 controller, Model No. 114231, S.N. 281382, 120-volt 6 Watt (adjustable delay, length of bead, skip, repeat). Was bought new in 2013 | Used - Very Good<br>Illinois |
| **Reject Station**<br>Asset ID: E2360<br>Prox switch | Reject Station:  Includes Proximity Switch, Air Knife, control box, and tripod stand on wheels - triggers a switch when metal is in close proximity.  Last used to detect if CD's were in cases. If a CD was in the case, it would be blown off the line. Includes stand. | <br>Jacksonville, IL |
| **Reject Station Proximity Switch**<br>Asset ID: E2361<br>Turck | Reject Station:  Includes Proximity Switch, Air Knife, control box, and tripod stand on wheels - triggers a switch when metal is in close proximity.  Proximity switch is Turck BC20-Q20-AN4X2.  Last used to detect if CD's were in cases. If a CD was not in the case, it would be blown off the line. Includes stand. Qty (5) of these available, priced separately | <br>Jacksonville, IL |
| **Shrink Tunnel**<br>Asset ID: E2355X<br>Weldotron | Weldotron heat tunnel - Model 7121 S/N FW93271, 220 V, 35 amps, 1 Phase; Motor:  115V, 1 phase, 0.75 amp, 1/15 HP.  Dimensions: 74"L x 34"W x 61"H.  Tunnel passage width:  16" and height: 8".  Versatile shrink tunnel designed to produce complete, uniform shrink on a wide range of product sizes and shapes. | <br>Jacksonville, IL |

**Packaging/Bag Filling Line** — **2 Items**

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| **Bagging Line for Flour Valve Bags**<br>Asset ID: PK-5065<br>Haver & Boecker | **Complete Bag Packaging Line by Haver & Boecker – NEW in crates.###**<br><br>Designed for filling coarse texturized soy/vegetable products (TVP) with grain size 6-12 mm into valve bags with ultrasonic sealing. The dosing technique is especially custom for this product (slide gate dosing instead of pinch valve dosing), but possible to modify.<br>Depending on the product characteristics and bag design, it could perform a filling rate up to 200 bags per hour and up to 50 kg size of any flour type powder product<br>Not suitable for HAZLOC applications. Available for shipment immediately.<br><br>**Major components of the bagging line are:###**<br><br>1. Integra Filler (additional information below). Filling range 10-50 kg bags. 140 bags / hour<br>2. FANUC M-410iC/185 robot palletizer bag handler with gripper style end effector.<br>3. Haver & Boecker slip sheet dispenser<br>4. Haver & Boecker pallet dispenser, retracting fork-style, for holding up to 20 pallets.<br>5. Fortress Stealth 26” W x 10” metal Detector<br>6. MINIBEA Type EWK checkweigher<br>7. Wulftec WCA-Smart stretch wrapper<br><br>The INTEGRA® FD1 INLINE 1 BP EL-U is a highly specialized, fully automated enclosed valve bag filling machine manufactured by Haver & Boecker. It is **custom-engineered as a "Plug & Pack" turnkey system** primarily used for packaging powder, flour-type, or granular products into valve bags.<br>• INTEGRA®: The overall product line featuring an all-in-one dust-proof safety enclosure.<br>• FD1: Configured with a Food Design execution (hygiene-focused components, often for products like wheat gluten or baking ingredients) utilizing 1 filling spout.<br>• INLINE: Indicates an inline layout for the modular bag handling, discharge, and check-weighing system components.<br>• 1 BP: Built with 1 Bag Placer (automatic bag applicator) to feed empty valve bags onto the filling spout automatically.<br>• EL-U: Designates the integration of advanced electronics and an ultrasonic sealing unit to hermetically seal the bag valve right after filling to prevent product leakage. | New, Old Stock<br><br>Iowa |

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|---|---|---|
| **Pre-Made Pouch Bagging Line**<br>Asset ID: 6159<br>WeighPack | Used **WeighPack Swifty Bagger Junior** automatic pre-made pouch packaging line. This compact rotary unit automatically opens, fills, and heat-seals pre-made stand-up pouches (SUP, SURP, DOY).<br>Previously used in a milling facility to package 5 lb resealable stand-up pouches of flour. The unit occupies approximately 10 sq. ft. of floor space and is ideal for small to medium production runs requiring up to 900 bags per hour.<br>*Note: Unit remains in active operation and will be available for removal/shipment in January 2027.*<br><br>**INCLUDED EQUIPMENT & ACCESSORIES**<br><br>• **WeighPack Swifty Bagger Junior** Pouch Machine<br>• **Product Hopper**<br>• **Incline Screw Conveyor**<br>• **Comprehensive Spare Parts Inventory:** Air rams, solenoids, bag sealers, sensors, and suction cups<br>• Also Available:<br><br>Markem Imaje Date Coder also included at no cost - has intermittent error code (built 2017).<br><br>**SPECIFICATIONS & FEATURES**<br><br>• **Speed:** Up to 15 bags per minute / 900 bags per hour (dependent on product and bag size)<br>• **Supported Bag Types:** Pre-made Stand-Up Pouches (SUP), Bottom Gusset (SURP), DOY pack, Zippered Pouches<br>• **Controls:** Omron PLC with Color Touchscreen HMI<br>• **Temperature Control:** Omron PID digital temperature controller<br>• **Vacuum System:** SMC vacuum generator with suction cup opening assembly<br>• **Safety Features:** "No Bag – No Fill" sensor logic<br>• **Construction:** 304 Stainless steel frame and product contact points<br><br>**APPLICATIONS**<br><br>• Milled grains, flour, dry powders, bakery mixes, pet treats, coffee, snacks, nuts, and granular products. | Used - Very Good<br><br>Utah |

| **Packaging/Bag Inserter** | | **2 Items** |
|---|---|---|
| **Bag Inserter**<br>Asset ID: R3550<br>Bemis | **Bemis Automatic Poly Bag Inserter**<br><br>Separates a poly bag from a roll of perforated and sealed poly bags, then opens the bag and inserts the bag into a formed and bottom sealed case, and cuffs the top of the bag over the vertical top flaps of the case. Includes belt case conveyor<br>Bemis Model 1575H, automatic bag inserter capable of speeds from 5 to12 cpm – speeds depending on material and application. Case size range: 8" to 20" in Length x 4" to 16" in Width x 10" to 22" in depth with bag gauge of 1-1/2 to 3 mil low density, 10-3/4" max roll diameter, 27-1/2" max roll width. Length of bag cuff overlay-depth and width is 5" to 7". Unit equipped with an Allen Bradley plc controller. Automatically selects a gusseted or flat tube polyethylene bag from a roll of perforated stock and inserts the bag into an erected corrugated container. Roll stock support accommodates two rolls of poly bags and quick roll change.<br>Was in operating condition when idled and removed early 2025. | Used - Good<br><br>Tennessee |

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|---|---|---|
| **Bag Inserter**<br>Asset ID: 5978<br>Pearson | **Pearson Bag Inserter##**<br><br>Pearson BI18 Bag Inserters open, insert, and cuff plastic bags from roll stock into a wide variety of corrugated cases at speeds up to 18 cases per minute. Equipped with bag opening carriage with vacuum cup assist, four corner cuffing rods and single head bag inserting head, PLC controller, vacuum pump, safety guarding and e-stop. Inserts pre-performed roll stock or gusseted bag stock into cases, filling all corners and cuffing the bag around the outer perimeter. Has a 36" web width with a 1-1/2" diameter spool. Has an Allen Bradley SLC 5/01 PLC. Advanced design features guarantee smooth and precise bag placement and handling.<br><br>• Uses poly roll bags<br>• Set up for 50# cube 12" x 12" x 12" box but can be adjusted. Size range L 9.5-24", W 9.5-17", H 10-24"<br>• Believed to be Model BI-18. Serial number 200119289647,<br>• 3HP 460/3/60<br>• Built 2001. Idled early 2017.<br>• In warehouse - ready to load<br><br>Part of a complete 50# cube filling line (Asset 5976) but will be sold separately. For a list of all components for this line - enter "5976cube" in search box.<br>For a list of all components for this line - enter "5976cube" in search box. | Used - Very Good<br><br>Jacksonville, IL |

| Packaging/Capper | 2 Items |
|---|---|
| **Capper**<br>Asset ID: R3502<br>Fowler Zalkin | **Fowler Zalkin Automatic Capper with Cap Hopper & Feeder**<br><br>• Single head inline capper. Includes stainless cap hopper, elevator, sorter, and chute.<br>• Set for 63mm caps but can run a variety of caps from 32mm with change parts (not included). Screw on type cap with induction heat seal liner<br>• Flex plastic conveyor belt, 8" wide through the capper<br>• Infeed plastic flex conveyor with 90 degree approx 12" wide, and outfeed plastic flex conveyor with 90 degree approx. 12" wide<br>• Operators panel, Job #92099-A, ser FZ749<br><br>This is a complete capper, recently removed in early 2026 and store in a van trailer. Line speed 18 cpm on 35# jugs and 11 cpm on 17.5 lb jugs. Installed in 1992, Idled in early 2025 - scheduled for removal in May 2025. Ready for immediate shipment<br>**For more details on all components of the Jug In Box line (JIB Line), enter R3500 in search box** | Used - Good<br><br>Tennessee |
| **Capper Torquer**<br>Asset ID: 8562<br>SureKap | **SureKap Capper SK6000-18.###**<br><br>Fully automatic straight line six-spindle capper capable of running up to 90 caps per minute depending on cap diameter. Can handle cap sizes up to 48mm/CRC and 53mm/400.<br><br>• Does not include cap hopper, chute, or cap feeder assembly. Caps were placed manually<br>• Incudes bottle transport conveyor with Delrin table top and a VFD for speed control Motor is 1HP.<br>• Machine is idle now but was running 22mm dropper caps, manually placed. Manual available | Used - Good<br><br>Conifer, Colorado |

| Packaging/Case Erector | | 2 Items |
|---|---|---|
| **Case Erector**<br>Asset ID: 5977<br>Pearson | **Pearson Case Erector**<br><br>Automatic case erector for knock-down (KD) cases with magazine and hot melt bottom glue system. Set up for Left Hand (LH cases) - we have drawing<br><br>• Model CE-235 serial 200102359572, machine number 9572<br>• Rated speeds up to 35 cases / minute.<br>• Feed from right to left when standing in front of machine name and electrical panel<br>• Includes Probilt hot melt glue system, part No. D100-644, serial No. 3551211272<br>• Was erecting KD cases for 50# cubes 12" x 12" x 12" but can be adjusted.<br>• Case size range: Can adjust to handle cases from 5 to 30" long, 5.5 to 16" wide and 3.5 to 24" tall<br>• Driven by 1.5 HP motor 460/3/60<br>• In warehouse - ready to load<br><br>** Note: The succesor to this Model 235 is Model 35 **<br>This case erector was part of a complete 50# cube filling line (Asset 5976) but will be sold separately. Entire line idled in 2017. Removed, stored, ready to ship. For a list of all components for this line - enter "5976cube" in search box. | Used - Very Good<br><br>Jacksonville, IL |
| **Case Erector**<br>Asset ID: R3401<br>Moen | **Moen Bliss Type Case Erector**<br>Designed for 2 part case for bag in box. Model PF106-TPB, serial 1867. Idle in early 2025 - still installed.<br>The Model PF106-TPB two-piece bliss former glues a bliss liners to a bliss body wrap, resulting in a shipping case with a double laminated bottom and an integral structure for top-to-bottom strength and box rigidity For bag-in-box applications, the two-piece bliss box can be formed with an FOL style top closure and then palletized on the side of the box, allowing the user to utilize the double laminated bottom and the double laminated top closure as vertical stacking members. The PF106-TPB can be changed over to accommodate a range of box sizes with a change over time of 30 min.<br>**For more details on all components of this line, enter R3400 in the search box** | Used - Very Good<br><br>Tennessee |

| Packaging/Case Sealer | | 3 Items |
|---|---|---|
| **Case Sealer**<br>Asset ID: R3403<br>Pearson | Pearson case sealer - hot melt top sealer. Model CS25-T, serial number 2006CS2511021. Equipped with top flap closers and plows, Allen Bradley touch screen controls, Nordson Problue 7 hot melt unit and guns.<br>Pearson's CS25 Case Sealers top seal a wide range of case sizes with either pressure-sensitive tape or hot melt adhesive at speeds of 25 to 42 cases per minute depending on case length. All of Pearson Packaging's case sealers are designed to accommodate a wide range of box styles and sizes for production rates spanning from low to high-speed. Case size range: 8" to 24" in Length; 5" to 16" in Width, 4¾" to 18½" in Depth. Ready to ship<br>**For more details on all components of this line, enter R3400 in the search box** | Used - Good<br><br>Tennessee |
| **Case Sealer Uncuffer**<br>Asset ID: 5980<br>SV Dice | Case bag uncuffer and sealer. Model PDUC-UFC, sn 4374. Uncuffs poly bag from 50# cube box, folds bag in, tamps it down, and seals top with hot melt glue. Missing hot melt unit and plc from control panel - manufacturer still supports this machine. Part of a complete 50# cube filling line. For a list of all components for this line - enter "5976cube" in search box. | Used - Fair<br><br>Jacksonville, IL |

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| **Case Sealer/Taper**<br>Asset ID: 6155<br>Loveshaw Corporation | Case Sealer/Carton Taper, The Loveshaw Corporation, Model 304/19, S.N. 159183300, 110 Volt, 9.6 Amp. Top & Bottom Sealing Heads, 2 in. x 6 ft. Side Pull Belts, Product Loading “anvil”, unit currently has Lincoln Coder, Model 90-2L-I | Unrated<br>Illinois |

| **Packaging/Coder** | | **1 Items** |
|---|---|---|
| **Ink Jet Coder**<br>Asset ID: 6158<br>Videojet | Videojet 1550 (#3), Ink Jet Coding Machine, EXCEL Format, 120/240 Volt, 1Ph., 3 Amp, Serial No. 1404109C29ZH, Part No. 39582-793-01, w/infrared Fiber Optic Photocell (proximity), O.E.M. Mobile Stand, O.E.M. Static Printhead Stand. Running. | Unrated<br>Illinois |

| **Packaging/Filler - Liquid & Viscous** | | **5 Items** |
|---|---|---|
| **Filler, Liquid Bag-In-Box**<br>Asset ID: R3402<br>Rapak | **Rapak Bag Former-Filler**<br><br>Rapak bag-in-box liquid filler with bag feeder. Designed for 10 bags per min with a 17.3 L bag . Single nozzle, bag former - bag has nozzle built in with cap. Filler retracts cap, fills, and replaces nozzle cap and seats it, Stainless steel. Idled in early 2025 - still installed Autokap™ 1200 Single-Head Fully-Automatic Filling Machine. This machine is a model 1270E automatic edible oil filler. This high-speed filler is designed to fill 1.5 - 20 L (0.5 - 5 gal.) bags through a 25mm nozzle. Fill rate based on supply at 6 litres/sec at 2 bar pressure. All product contact surfaces conform to USA 3A Dairy Standards.<br><br>• Touch screen controls<br>• Stainless steel supply tank, approx 25 gallons<br>• Centrifugal feed pump<br>• Delrin conveyor<br><br>Production output capability<br>5L (0.5 gal.) bags at up to 17 bags/min<br>3L (1 gal.) bags at up to 16 bags/min<br>5L (1.5 gal.) bags at up to 14 bags/min<br>10L (2.5 gal.) bags at up 11 bags/min<br>20L (5 gal.) bags at up to 9 bags/min<br>**For more details on all components of this line, enter R3400 in the search box** | Unrated<br>Tennessee |

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| **Liquid Filler**<br>Asset ID: R3501<br>Thiele | **Thiele 5-Nozzle Jug Filler with ss Surge Tanks and Pump**<br><br>**Food Grade** Thiele positive displacement filler with centrifugal pump feed system - all controls<br><br>• Stainless steel surge tank approx 75 gallons with centrifugal feed pump, filters and manifold<br>• Positive displacement individual piston control filling to five nozzles - nozzle bore approximately 2"<br>• Includes all controls and photo-eyes<br>• Delrin flex transport belt through filler<br>• Live roller feed to filler - approx 16" wide x 20 ft long<br>• Stainless steel sanitary dust covers<br><br>Was running 2.5 gallons and 5 gallon jugs of liquid vegetable oil filling Jug in Box.<br>**For more details on all components of the Jug In Box line (JIB Line), enter R3500 in search box** | Used - Good<br>Tennessee |
| **Pail Filler - 4 Head Stainless**<br>Asset ID: 7621<br>Shambaugh & Sons | **Bulk viscous material filler - 4 head**<br><br>Rated at 8 to 10 cases per minute depending on viscosity. For viscous material including shortening and margarine. Stainless steel filler with controls, load cells, and 4 conveyors. Infeed pipe to ss fill nozzles is 2: carbon steel. Uses 4 Mettler Toledo load cells - controls included. Has 2 automatic ss ball valves an 4 air operated ss modulating valves at nozzles. Includes 4 conveyor sections on load cells - Mettler controls in panel over Rice Lake model BM1818S-200, capacity 200 lbs each load cells). Can also fill, 25# cube boxes, 50 # cube boxes, 5 gallon (35 lb) pails, 25 kg boxes. Could be adapted for gallon and 1/2 gallon containers and smaller. Stainless so can be used with margarine, butter, or any other viscous product. Filler control panel measures 3 ft x 7 ft x 1 ft deep. Will have to be reprogrammed. In warehouse - ready to load | Used - Very Good<br>Jacksonville, IL |
| **Pail Filler - Case Filler Viscous Fluid**<br>Asset ID: 5942 | Filler for 50# cubes - 2 heads. Stainless steel, automatic valves, extrusion valve for shortening or margarine. Two load cells Mettler Toledo, Model IND131, Max load 50kg. Controlled by Allen Bradley touch screen Panelview 1500. Has Allen Bradley Compact Logix plc. Will require re-programming of the logic. Includes Little David Microjet coder and Diagraph IV700 case coder. Capacity 5 to 8 cases per minute depending on viscosity. This is a weigh filler controlled by Mettler load cells. Last used to fill boxes of margarine (12" x 12" x 12") but can handle any viscous fluid. Part of a complete 50# cube filling line. Built 2001. Idled early 2017. Removed, stored, ready to ship. For a list of all components for this line - enter " 5976cube " in search box. | Used - Very Good<br>Jacksonville, IL |
| **Pail Filler, Liquid - Stainless**<br>Asset ID: 7622<br>Neupak Weigh Master | Neupak Weigh Master Pail Fille<br>2 nozzle Neupak with load cell control for viscous liquids (no load cells included). Stainless steel piping and nozzles. Was last used for filling 5 gallon shortening pails but can handle other size pails or boxes. Controls included in separate control cabinet with Allen Bradley plc SLC 504 CPU. Serial # M65301. Unit is in 2 pieces. Shipping sizes: filler 32 x 48 x 80 inches tall, control cabinet 40 x 48 x 96 inches tall. | Used - Very Good<br>Jacksonville, IL |

| Packaging/Metal Detector | | 2 Items |
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| **Metal Detector**<br>Asset ID: 6152<br>LOCK Inspection Systems | LOCK inspection Systems, Met 30+, 3 1/2 in. x 14 in. aperture mounted on conveyor last used with a V/f/f/s machine. Conveyor is 12 in x 10 ft. long horizontally-transitioning to 68 inch long incline where the metal detector is located. Intralox modular conveyor belt. Horizontal section is 6 inches above floor and raises to discharge height of 40 inches. Currently using 1.5 MM NFe, 1.2 MM Fe, 2.0 MM SS | Unrated<br>Illinois |

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| **Metal Detector**<br>Asset ID: 5072<br>Eriez Manufacturing Co. | Eriez Flow Through Metal Detector. Model EZ-DSP7.25LPVR, Style 9911198. Serial #191777<br>Approximate 6” diameter tube with diverter valve. Mounted on a stainless steel frame | Unrated<br>Illinois |

| Packaging/Packaging Line | | 3 Items |
|---|---|---|
| **50 lb Cube Filling Line - stainless**<br>Asset ID: PK-5976 | **Filling line for 50lb or 25lb cube boxes**<br><br>Stainless steel filler last used for margarine filling. Can be adjusted for other size boxes down to 25 lb. This is an automatic line. Control by Allen Bradley Control Logix plc (filler will have to be re-programmed). Can also be used for any viscous material including shortening. Rate was between 5 to 8 cases per minute depending on viscosity (if filling 50# boxes, rate would be 24,000 #/hr). Includes:<br><br>• Pearson case erector for LH KD cases, asset 5977<br>• Pearson bag inserter using roll bags, asset 5978<br>• Stainless 2-spout filler on Mettler Toledo load cells, asset 5942<br>• SV Dice uncuffer case sealer (missing plc and hot melt unit) asset 5980<br>• Interconnecting conveyors.<br><br>Line built 2001 - ran until early 2017.<br>In warehouse - ready to load.<br>See marketing flyer in Links. We have a dimension drawing for all major pieces. (5976Layout.pdf). For a list of all components for this line - enter "5976cube" in search box. | Used - Very Good<br>Jacksonville, IL |
| **Bag In Box Packaging Line BIB**<br>Asset ID: PK-7500 | **Bag In Box (BIB) Line**<br><br>Packaging line for filling 35 pound fluid. This line consists of the case erector, filler, and case sealer plus the interconnecting roller/belt conveyors. Installed footprint 88 ft x 13 ft but can be configured differently.<br><br>• **Case Erector** - Moen PF106-TPB two piece Bliss case former. For more details - see asset R3401<br>• **Filler** - Rapak bag in box filler.with bag former/inserter. Single nozzle automatic bag filler. Includes Delrin conveyor through filler in a U shape pattern. For more details see R3402<br>• **Case Sealer** - Pearson N401-G case sealer. For more details see asset R3403<br>• Belt conveyor on rollers - interconnecting conveyors - see drawing.- Stainless steel surge tank approx 25 gallons with centrifugal filler pump.<br><br>**For more details on all components of this line, enter R3400 in the search box** | Used - Very Good<br>Tennessee |

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| **JIB Line Jug-In-Box**<br>Asset ID: PK-3500 | **JIB Line, Complete. Fills 17.5 lb or 35 lb Jug-In-Box**<br><br>This is a complete line, removed inn early 2026 and stored in two van trailers - ready to deliver. Line speed 18 cpm on 35# jugs and 11 cpm on 17.5 lb jugs. Installed in 1992, ldled in early 2025 - ready for removal and loading. Ready for immediate shipment<br><br>• Thiele 5 nozzle filler with, all controls. Positive displacement piston control. Nozzle opening 2 inch<br>• Stainless steel surge tank, pump<br>• Fowler Zalkin FTM200 Capper and cap feeder. Single head automatic for 63mm caps. Includes infeed and outfeed conveyors<br>• All interconnecting conveyors, photo-eyes, controls. Very long in-feed and out-feed conveyors - live rollers<br><br>**For many more details and photos on all components of the Jug In Box line (JIB Line), enter R3500 in search box** | Used - Very Good<br><br>Tennessee |

**Packaging/Palletizer & Stretch Wrapper** — **1 Items**

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|---|---|---|
| **Robotic Palletizer**<br>Asset ID: 8860<br>Columbia Okura | **Columbia Okura A1600 4-Axis Robot Palletizer**<br><br>This is in good working condition and there were no issues with it at the time of replacement. Installed in 2003 and replaced in 2024. The main cable and one servo motor were replaced soon before removing the palletizer from service. This was serviced and maintened regularly. It was last used to stack 50 lb feed bags running approximately 10 tons per hour. Controls are included. The cables to the robot were cut and will need to be replaced.<br><br>**Key Features of the A1600 Palletizer**<br><br>Modular, Compact Design<br>Unlike bulky traditional palletizers, the A1600 features a space-saving footprint (as small as 6.5m²). Its modular configuration adapts to low-ceiling facilities and tight spaces, making it ideal for retrofitting older warehouses.<br><br>**High-Speed Precision Palletizing**<br><br>With a top speed of 1,600 cycles per hour and a payload capacity of 40kg, the A1600 handles everything from food-grade boxes to pharmaceutical cases with sub-millimeter accuracy. Advanced servo motors and anti-vibration algorithms ensure gentle product handling, even at peak speeds.<br><br>**Transformative Gripper Versatility**<br><br>The A1600's proprietary Quick-Change Gripper System supports vacuum, clamp, hybrid, and custom EOATs (End-of-Arm Tooling). In testing, it transitioned between beer kegs and fragile cosmetic boxes in under 90 seconds—game-changing for mixed-SKU environments.<br><br>**Plug-and-Play Integration**<br><br>Columbia Okura's CO-Pilot software syncs seamlessly with ERP/WMS platforms (SAP, Oracle) via OPC-UA and Ethernet/IP protocols. Setup time for basic pallet patterns averaged just 38 minutes in our trials, thanks to its drag-and-drop interface.<br><br>**Self-Diagnostics + Predictive Maintenance**<br><br>Built-in IoT sensors monitor motor wear, belt tension, and vacuum pressure, flagging issues 2–3 weeks before failure. | Used - Good<br><br>Iowa |

**Packaging/Vertical Form Fill** — **3 Items**

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| **Bartelt Form Fill Seal Packager**<br>Asset ID: 6125<br>Bartelt HMC | **Bartelt Form Fill Seal Packager**<br>• Model RH IM 7-12 (7 inch-12 station) w/All Fill B 350E auger filler<br>• E.M.P. registration control unit<br>• Equipped with side seal embossing and mechanical hole punch<br>• Machine No. 580<br>• Idled in 2018 - still installed in protected area. We will remove and load for no charge<br>It has the position for a second filler head. We have run an additional auger filler in that position as well as a volumetric filler in that position. Tear notch and various types auger tooling setups also available separately. Choose from 2 in., 3 1/2 in., 4 in., or 6 in. bag clamps. Very reliable packager. 3 phase 208-220/440 VAC. Selling because of production shut down. | Used - Very Good<br>Illinois |
| **Bartelt Form Fill Seal Packager**<br>Asset ID: 6126<br>Bartelt HMC | **Bartelt horizontal form, fill, and seal Packager**<br>• Model RH IM 6-7 (6 inch-7 station) w/B Filler<br>• Tritronics registration unit (Color Mark II, Model CMS 2B)<br>• Last ran 60 packages per minute on 1-gram fill<br>• Machine No. 336<br>Smooth/quiet running machine. 3 phase 208-220 VAC. Selling because of production shut down. Price includes loading on your truck - crating extra. Auxiliary equipment such as embossing and various types auger tooling setups available separately. | Used - Very Good<br>Illinois |
| **Vertical Form Fill Machine VFFS**<br>Asset ID: 1085<br>Prodo-Pak | **Like New Vertical Form Fill & Seal Machine (VFFS)**<br>by Prodo-Pak. Tested - never used in production. VFF.<br>• One Model 4S 3P 320 line 3-lane with Laser etching printer. Fill rate at 150 to 180 pouches/minute.<br>Machine Size 7.5 ft x 7.5 ft x 9 ft tall 5,000 pounds<br>• Fill volume 1.0 to 3.0 ml. Pouch width 1.5 inches, pouch length 3.0 inches<br>• Was set up for filling semi-viscous gel products 1,000 to 5,000 centipoise into four sided seal pouches. Last used for hand sanitizer packets or sachets.<br>Includes the following additional pieces:<br>• Pump skid 80 inch x 48 inch x 60 inch tall 600 pounds<br>• Video Jet laser printer 7 ft x 7 ft x 77 inch tall 700 pounds.<br>• Video Jet fumes extractor 4 ft x 4 ft x 5 ft tall 300 pounds.<br>See LINKS for specifications. | Like New<br>New Jersey |

**Piping** **5 Items**

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| **Flow Regulator**<br>Asset ID: O21<br>Eaton Dole | Eaton Dole Flow regulator Model GX 12.0 gpm | Unrated<br>Jacksonville, IL |
| **PSV Pressure Safety Valves**<br>Asset ID: 8849<br>Anderson Greenwood Crosby | **PSV Pressure Safety Valves NEW**<br>Anderson Greenwood Crosby<br>• PSV 400: Size 6" 300# RF flange x 6" 150# RF flange - Style 6Q8JOS-E15J. Set pressure 101 KPaG, Capacity at 10% overpressure 181 m3/min. PSV-400 s/n 1101-1707-091413, ASME & CRN# 0G15494.5CL.<br>• PSV2: Size 6" 150# RF flange x 8" 150# RF flange - Style 6Q8JOS-E15J. Set pressure 101 KPaG, Capacity at 10% overpressure 181 m3/min..s/n 1101-1806-141326, ASME & CRN# 0G15494.5CL<br>• (2) available - priced separately. | New, Old Stock<br>Alberta Canada |
| **Quick Connect Female 1/4**<br>Asset ID: 5422<br>Speedaire | Speedaire Coupler body 1/4 FNPT 30E653 | New, Old Stock<br>Jacksonville, IL |
| **Quick Connect Male 1/4**<br>Asset ID: 5421<br>Speedaire | Speedaire Coupler body 1/4 MNPT 30E655 | New, Old Stock<br>Jacksonville, IL |
| **Relief Valve, Hydraulic Cartridge**<br>Asset ID: O13<br>Sauer Danfoss | Sauer Danfoss direct duty safety relief valve, cartridge type. Valve 1G10-03-V-0-E-B-XXX. Viton seals, external adjustment, 20-80 psi spring pressure. New, old stock. Length approx 5 3/4" Buy It Now - Free Shipping. | New, Old Stock<br>Jacksonville, IL |

| **Piping/Ball Valve** | | **16 Items** |
|---|---|---|
| **Ball Valve**<br>Asset ID: 8140<br>SVF | 4 inch Stainless Steel Flanged Ball Valve. SVF Class 300 | New, Old Stock<br>Pennington Gap, VA |
| **Ball Valve 1 1/2 inch**<br>Asset ID: 6063<br>SVF | SVF Fluid Control Inc Flanged Ball Valve B416ATR3P 1 1/2 inch - 150 CF8M | New, Old Stock<br>Jacksonville, IL |
| **Ball Valve 1"**<br>Asset ID: 5401<br>American Valve | Ball Valve 1 inch 125# CS Flanged Ball Valve 200WOG BD693 with handle. American Valve 4000. Qty (4) - priced separately | New, Old Stock<br>Jacksonville, IL |

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| **Ball Valve 1"**<br>Asset ID: 5403<br>Sharpe | Ball Valve - meets NACE. Size 1 inch 2000# CS NPT Ball Valve. Sharpe A108 2000 CWP 1 inch NACE MR-01-75 338749. Qty (7) available - priced separately | Unrated<br>Jacksonville, IL |
| **Ball Valve 1"**<br>Asset ID: S1208B<br>Sharpe | Sharpe 1" 3 piece steel ball valve. 1000 CWP. Socket weld type. New. There are 4 of these available - priced separately. | New, Old Stock<br>Jacksonville, IL |
| **Ball Valve 2"**<br>Asset ID: 2451<br>Flow Tek | Flow Tek F15 - 2" Flanged ball valve - 2 piece. Body WCB, ball/stem 316ss. Class 150# valve, Includes bracket mount for actuator. New, old stock. | New, Old Stock<br>Jacksonville, IL |
| **Ball Valve 2" SS**<br>Asset ID: 5744<br>Flow-Tek | 2" Stainless Steel ball valve, Flow-Tek S85 CF8M 1000 WOG; This item is new but has been in storage for some time | New, Old Stock<br>Jacksonville, IL |
| **Ball Valve 3" ss**<br>Asset ID: 2453<br>Flow Tek | Flow Tek RF15 316 Ball Valve 3 inch flanged | Used - Good<br>Jacksonville, IL |
| **Ball Valve 3/8"**<br>Asset ID: S1305B<br>Sharpe | Sharpe 50M76 3/8" ball valve. 1000 CWP CF8M. | Used - Very Good<br>Jacksonville, IL |
| **Ball Valve, 1 inch**<br>Asset ID: 6105<br>Apollo | Apollo Ball Valve, 1 inch. 72-105-01. Body, Stem, and ball A108. Seat RPTFE, Pkg MPTFE. | Used - Very Good<br>Jacksonville, IL |
| **Ball Valve, 1 inch Cenrter**<br>Asset ID: 6055<br>SVF | SVF Ball Valve, 1 inch carbon steel ball valve. C/S Center section TFM Seat & TFE Body seals. Standard port R84066AT10. New, old stock. Still in plastic bag. Dated 4/7/11. Does not include the end | New, Old Stock<br>Jacksonville, IL |
| **Ball Valve, 1 inch ss**<br>Asset ID: 6099<br>SVF | SVF Ball Valve, 1" - 150#. Flanged, stainless steel. B416666AG150R2. CWP 275 psi. Temp -40 to 350F. Body CF8M, Trim 316SS, Seat, TFM. Used. Made in China. Built in 2006 but barely used - in great shape. | Used - Excellent<br>Jacksonville, IL |
| **Ball Valve, 1/2 inch**<br>Asset ID: 6106<br>SVF | SVF Ball Valve, 1/2 inch, NPT female ends R84466ATSE. 1500. Threaded connections FNPT. Used. | Used - Good<br>Jacksonville, IL |
| **Ball Valve, 1/2 inch**<br>Asset ID: 6069<br>SVF Flow Controls | 1/2 inch ball valve by SVF Flow Controls. High performance 3-piece ball valve model R8 4466ATSE. Quantty (2) available, priced separately | Used - Good<br>Jacksonville, IL |
| **Ball Valve, 1/2 inch**<br>Asset ID: 6076<br>Sharpe | Sharpe ball valves. WC8 1000 CWP, 1/2 inch. Used - 4 available, priced separately. | Used - Good<br>Jacksonville, IL |

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| **Ball Valve, 3/4 inch**<br>Asset ID: 6104<br>Sharpe | Sharpe 3/4 inch ball valve. CF8M, 1000 CWP. New, old stock | New, Old Stock<br>Jacksonville, IL |

| Piping/Butterfly Valve | | 2 Items |
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| **Butterfly Valve 3 inch**<br>Asset ID: 6048<br>FNW742T | FNW 3 inch Butterfly Valve CF8M Body and disc, SS316 stem, teflon seat. Lugged valve - 4 bolt holes. Figure FNW742T. Working pressure 150 psig at 266 F. Made in Korea - used valve. Qty 2 available, priced separately | Unrated<br>Jacksonville, IL |
| **Butterfly Valve 40"**<br>Asset ID: 1726<br>Bray Controls | Butterfly valve 40" 300# rated 740 psi 100F. Bray Controls P/N 434000-1100147Q/CD40 sn C160241184. Body cast iron WCB, stem & disc CF8M stainless steel, seal RPTFE. Made in China 2016. New in crate. Manufacture to ASME B16.34, passed and certified by CE (Europe) | New, Old Stock<br>Marissa, IL |

| Piping/Check Valve | | 7 Items |
|---|---|---|
| **Check Valve 3/4"**<br>Asset ID: O9<br>Bonney Forge | Bonney Forge 3/4 inch Check Valve 800# HL 41 Std Port Bolted Bonnet 022077-0086 A105N. 800# class. 3/4" FNPT Threads. (3) available - priced separately | New, Old Stock<br>Jacksonville, IL |
| **Check Valve, 1 inch**<br>Asset ID: 6051<br>DFT | DFT Check Valve, 1 inch. Model WLC 49336. S/N 49336 Class 150. Stainless steel 316 body & trim. Rated MAWP 275 psig @ 100F, 195 psig @ 400F. New, old stock. | New, Old Stock<br>Jacksonville, IL |
| **Check Valve, 1.5 inch**<br>Asset ID: 6052<br>Warren | Warren Size 1.5 inch check valve, Y pattern, pressure rating 200 psig. Body CF8M, Stem 316, Disc CF8M, Fig No. 223. New, old stock. | New, Old Stock<br>Jacksonville, IL |
| **Check Valve, Swing Wafer, 1 inch**<br>Asset ID: 6103<br>Hy-Grade Valve Inc | Hy-Grade 1 inch Swing Wafer Check Valve, T series. Class150 RF 275 WP-100F. S/N 1T20683. 74715. 316-A479. New, old stock | New, Old Stock<br>Jacksonville, IL |
| **Swing Check Valve, 1 inch**<br>Asset ID: 6079<br>Sharpe | Used Sharpe Swing check valve, Size 1 inch with 1" threaded FNPT connections. CF8M, 200 W. P. | Used - Good<br>Jacksonville, IL |
| **Swing Check Valve, 1 inch**<br>Asset ID: 6065<br>Sharpe | Sharpe 1 inch cast stainless steel swing valve. W.P. 200 psig. Body CF8M, Disc 316. | Used - Very Good<br>Jacksonville, IL |

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| **Swing Valve, 3/4 inch**<br>Asset ID: 6066<br>Sharpe | Sharpe 3/4 inch Swing Valve. 200 W.P. Body CF8M, Disc 316, Fig 20276. New, old stock. | New, Old Stock<br>Jacksonville, IL |

| **Piping/Gate Valve** | | **2 Items** |
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| **Gate Valve 16"**<br>Asset ID: 6595<br>Fairbanks | Fairbanks 16" gate valve. New. Figure No. 0405. 150 WOG | Used - Good<br>Grant City, MO |
| **Gate Valve, 1 inch**<br>Asset ID: 6064<br>Vogt | Vogt 1 inch class 800 carbon steel Gate Valve. API 602/ANSI B16.34. Series SW12111 Spec API602/B16.34 Body A105 UG60. Class 800# valve, rated for 1875 psig at 100F. Seat HF. Quantity (4), priced separately. New, old stock | New, Old Stock<br>Jacksonville, IL |

| **Piping/Knife Gate Valves** | | **4 Items** |
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| **Knife Gate Valve 12"**<br>Asset ID: 8846<br>Orbinox | **Knife Gate Valves**<br>12” 150# Orbinox knife gate valves, lug type. Stainless steel, Model 20-3434RI-12-SSY, Air piston driven In excellent condition, was idled in 2022. Two available, priced separately.<br>The Orbinox Series 20 knife gate valve (part number format 20-3434 with a 12-inch size and SSY/stainless trim designation) is a heavy-duty, uni-directional lug-style industrial valve featuring a stainless steel body and gate, designed for slurries, wastewater, and bulk handling application | Used - Excellent<br>Alberta Canada |
| **Knife Gate Valve 20"**<br>Asset ID: B2077<br>Orbinox | Knife Gate Valve 20" Stainless steel body and gate with actuator. Full lug, face-to-face 4.5" . Orbinox Pneumatic cylinder actuator Model: PARG4NE3-21, SN: V6245532, Bore 12", Stroke - 21", Press Rating 150 PSI. NEW, Old Stock | New, Old Stock<br>Peoria, IL |
| **Knife Gate Valve 30"**<br>Asset ID: B2079<br>ITT Fabri Valve | Knife gate valve 30" with pneumatic actuator, Wafer. Rated 150 lb carbon steel body with ss304 knife. Mfg ITT Fabri Figure 037L304. NEW, Old Stock | New, Old Stock<br>Peoria, IL |
| **Knife Gate Valve, 30"**<br>Asset ID: 6122<br>Metropolitan Valve Inc. | One (1) 30" pneumatic stainless steel knife gate valve, new surplus (unused). | Unrated<br>Minnesota |

| **Piping/Vent Valves** | | **3 Items** |
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| **Pressure Vacuum Relief Valve (4x6)**<br>Asset ID: V4007<br>GROTH | Pressure vacuum vent valve 4x6. Serial # 1904177-02-2<br>• Model (1220A): Pipe-Away Pressure/Vacuum Relief Valve (weight-loaded).<br>• Size / Inlet Flange (-04-): 4-inch (100 mm) inlet flange size (part of the 2" to 12" size range).<br>• Materials & Configuration (-115-): Standard material build configuration (typically aluminum body/seat with stainless steel internals / 316 SS pallet).<br>• Suffix (-V00): Specific factory trim, fluoropolymer/Teflon diaphragm option, or custom/standard build code designation. | Unrated<br>Jacksonville, IL |

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| **Pressure Vacuum Relief Valve for Tank**<br>Asset ID: V4009<br>Groth | Groth Pressure vacuum relief valve. 6 inches x 8 inches. Model D-200.1220A-06-115-V00<br>• 1220A: Pipe-Away Pressure/Vacuum Relief Valve Series.<br>• 06: A 6-inch nominal size connection.<br>• 115: 150# ANSI flanged drilling class compatibility.<br>• V00: Specific internal materials, seal/diaphragm configurations, or factory settings. | Used - Very Good<br>Jacksonville, IL |
| **Pressure Vacuum Relief Valve for tank**<br>Asset ID: V4006<br>Groth | Groth Pressure vacuum vent valve 6 inches.<br>• Model (1220A): Pipe-Away Pressure/Vacuum Relief Valve (weight-loaded).<br>• Size / Inlet Flange (-04-): 4-inch (100 mm) inlet flange size (part of the 2" to 12" size range).<br>• Materials & Configuration (-115-): Standard material build configuration (typically aluminum body/seat with stainless steel internals / 316 SS pallet).<br>• Suffix (-V00): Specific factory trim, fluoropolymer/Teflon diaphragm option, or custom/standard build code designation. | Unrated<br>Illinois |

| **Plants/Biodiesel** | | **5 Items** |
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| **Biodiesel Plant 3 MGY**<br>Asset ID: PK-1900<br>Greenline | **Biodiesel Plant - 3 MGY (million gallons per year)**<br><br>Manufactured by Greenline, this plant ran cottonseed oil in a continuous flow, water free, transesterification reaction and separation modules.<br><br>• On skids and includes in-process tanks.<br>• Fully automatic with plc control; all controls are still there and intact except for the HMI.<br>• No tank farm<br>• No air compressor<br>• This plant was inspected by the manufacturer in Dec 2021 and all pieces are still there except for some water piping.<br>• The manufacturer notes that this plant is in good condition and very little CapEx will be needed to start the equipment back up. Customer will have to make its own determination.<br>• Plant must move.<br>• Approx space it occupies now is 75 ft x 100 ft<br>Started in 2008 - idled in 2010. We can offer two further options at an additional price: 1. Greenline refurbish all equipment and make ready for start-up. 2. Greenline install and start-up equipment at new location. See information in Links; more data in our Virtual Data Room (VDR). | Used - Good<br>Texas |
| **Biodiesel Plant 5 MGY (partial)**<br>Asset ID: PK-2200<br>Greenline | Greenline 5 MGY plant (partially still there). Very good condition, built in 2007 and just idled in Sept 2021. In all 15 years of production, this plant did not have more than 3 weeks downtime - designed very well. Production was all animal fat at <4% ffa. It could also run Choice white grease, lard, tallow, brown grease. The front end operation has an Alfa Laval PX centrifuge. Includes an extensive spare parts inventory with spares for every major piece of equipment in the plant. Has an enclosed load out area and a chiller/filter press to meet cold soak requirements for biodiesel,<br>NOT INCLUDED:<br><br>• Outside tanks<br>• Dryer skid with 2 heaters and drying vessel<br>• Methanol recovery skid with dryer vacuum pump, heat exchanger, collection vessel<br>• Switchgear & MCC | Used - Very Good<br>Hayti, MO |

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| **Biodiesel Plant 90 MGY**<br>Asset ID: PK-2630 | **BioDiesel Plant 90 MGY**<br>• 4.84 acres within the Kinder Morgan Galena Park Liquid Fuels Terminal.<br>• Two 45 MGY trains<br>• 18 storage tanks 128,500 bbls<br>• Emerson Ovation DCS with fiber communications<br>• Fully fenced and segregated from KMGP terminal.<br>• Only shared resource is fire water header from KMGP and wastewater pipeline to Gulf Coast Authority (via pipeline to other side of Houston Ship Channel)<br>• (7) pipeline connections to KMGP terminal (including fire water, N2 and wastewater)<br>Land is leased from Kinder Morgan.<br>Note: Some equipment is missing - see equipment list | Used - Good<br>Texas |
| **Biodiesel Plant Infrastructure 15 MGY**<br>Asset ID: PK-2620 | **Biodiesel Plant nameplate capacity 15 MGY**<br>Idle biodiesel plant, idled in 2010. Has 750,000 gallons of feedstock storage, 750,000 gallons of finished product storage, and a 100,000 gallon methanol tank. Rail spur holds well over 50 cars and probably closer to 95.<br>The plant has 1.5-million-gallons of feedstock and refined product storage and is well-situated to access the abundant animal fats market in the area, which provides a cheap feedstock for biodiesel production. With its direct rail link to the CSX national railroad and proximity to the port of Savannah, the plant has robust access to major biodiesel and fuel markets. The Property is currently developed with multiple structures and infrastructure associated with a former biodiesel production facility, including a biodiesel refinery building, large methanol and glycerin recovery columns, a boiler house, an aboveground storage tank (AST) farm, a former maintenance shop, multiple covered storage areas, a large exterior concrete storage area, a retention pond, overhead piping, a boiler scrubber pond, and a rail spur. The site is comprised of roughly 6.5 acres within an 18.7-acre parcel.<br>Note: This is not a complete plant - some equipment has been removed. Details will be in the Virtual Data Room (VDR) | Unrated<br>Southeast |

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| **Biodiesel Plant Infrastructure 50 MGY**<br>Asset ID: PK-1300 | **Biodiesel Plant 50 MGY - Infrastructure - Land - Buildings**<br><br>**NEW - Never in Production - Built 2008**<br><br>Biodiesel plant nameplate rated at 50 MGY was never completed, All process, control, electrical, and auxiliaries are installed - missing tank farm. This plant is on 13.5 acres inside an Enterprise Zone, TIF District, and Opportunity Zone next to one of the busiest trucking corridors in the country. The 13.52± acre site has room to expand in several directions with land owned by the city and a municipal economic development group. The majority of the infrastructure has already been installed. Current biodiesel technology provided by Kreido Biofuels with a tube-in-tube reactor (STT), four trains. All is essentially New, Old Stock. Idle since 2008<br>**Site Improvements and Utilities:** City Water/Sewer, Heavy Power to Site, Natural Gas, fire loop water main, sanitary sewer lines, storm sewer lines and detention basin are installed.<br>Includes<br><br>• Electrical including switchgear and MCC's<br>• Cooling Towers<br>• 2 truck scales in-ground<br>• Rail scale<br>• Rail on site<br>• 4 process reactor trains/skids<br>• Distillation Columns<br>• 2 Firetube boilers<br>• Air compressor<br>• McQuay Chiller<br>• Buildings: MainOffice/Warehouse 7,500 sf, Utility 5,994 sf, Process 25,092 sf, Process Support 324 sf.<br><br>Plant would be excellent for use as infrastructure for biofuel, biomass, or chemical projects. Columns can be repurposed - we have all data and drawings. Priced for complete plant, land, buildings. Can reconfigure if necessary. All data and photos in our Virtual Data Room (VDR). Ask for an invitation | New, Old Stock<br><br>Illinois |

**Plants/BioRefinery and Edible Oil** — **1 Items**

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| [Riverfront BioRefinery Plant 550 TPD](#)<br>Asset ID: PK-2600 | **Bio Oil Refining Plant 550 TPD - OR - Biodiesel Plant 50 MGY**<br>**On Mississippi River with Dock**<br>• This plant has been recently idled - essential personnel are still there.<br>• Land is on the Mississippi River with dock and 2.6 million gallons of storage.<br>• Great for storage or transloading facility, for a renewable diesel feed plant, or other process/biodiesel plant with good infrastructure. Originally it was a biodiesel plant and then added capability for soybean refining and enzymatic degumming. Mainly automatic with plc controls. Plant is currently idle but Plant Manager, Lead Operator, and Logistics Manager are still there maintaining the equipment including turning large motors. Electricity still on and most permits are current. Data room available upon request after signed NDA. SEE Marketing Deck in Links below.<br>***Includes***<br>• 2.6 million gallons of tank storage (62,000 bbl)<br>• Barge dock on Mississippi River<br>• Automatic with PLC controls<br>• Full Lab<br>• 53 acres of land<br>• Rail access (CN)<br>***Overview***<br>• This plant started transesterification biodiesel production 2007 with a name plate capacity of 72 million gallons per year and demonstrated production of 50 million gallons per year. Feedstock was solely Crude Degummed soybean oil, and finished product met or exceeded ASTM D6751.<br>• In 2022 the plant was converted to refine soybean oil from crude or crude degummed soybean oil. The refining process was designed for 144,000 gallons per day (100 gpm) (550 TPD). The operation was limited by feedstock supply chain so the max demonstrated production was 86,000 gallons per day. Refined soy oil processed was sold to Renewable Diesel producers, The refined oil met or exceeded all parties' required specifications. The actual COA's are in the virtual data room<br>• In August 2023, production ceased and the plant was shut down. Critical operations team still in place. | Used - Good<br>Natchez, MS |

| Plants/Crush & Edible Oil | | 2 Items |
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| [Canola Crush Plant 48 TPD](#)<br>Asset ID: PK-1400 | **Canola Crush Extraction Plant 48 TPD**<br>**Complete cold-press mechanical crush plant with (4) Contrade ET 6160 oil presses at 500 kg/hr each**<br>Includes (4) Contrade presses at 500 kg/hr each, (4) PIAB grain vacuum cleaners, cake pelletizer, AMA pressure leaf filter 12.5 m2 with slurry mix tank system, (4) seed silos at 35 m3 each, (3) square cake silos at 30 m3 each, (3) oil tanks at 17,500 L each, pumps, electrical and motor control, material handling elevator leg and conveyors.<br>See Equipment List in Links for details | Used - Good<br>Ontario, Canada |

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| **Crush Plant 150 TPD + Refinery 50 TPD**<br>Asset ID: PK-2400 | **Crush Plant 150 TPD --- RBD Refinery 50 TPD**<br><br>This plant was designed to crush and refine organic soybeans from local farmers. Built in 2002 and idled in 2006. The overall refinery is designed to be a 150 T/D soybean processing plant and a 50 T/D refinery with a majority of the technology provided by the Chinese engineering company Wuhan Friendship Food Engineering Co, LTD. The majority of equipment is of Chinese origin but also incudes US manufacturers of major equipment (presses, centrifuge, chillers). Offering complete, for sale as a single entity. Most equipment is inside a building and is protected from weather. Crush includes (3) Dupps presses, cooker, hammermill at meal storage. Refinery includes Alfa Laval degumming and ww centrifuges, bleach, deodorization. Quoted as Complete Plant for run-in-place including land and buildings. We can also quote for assets ONLY to be relocated. See flyer brochure and video walkthrough in Links. | Used - Fair<br><br>New York |

## Plants/Desulfurization — 1 Items

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| **Diesel Desulfurization Unit**<br>Asset ID: PK-8840 | **Diesel distillate hydrogen desulfurization process unit NEW**<br><br>**Still installed and available for a live demo run**<br>Plant has been cleaned out when shutdown and is currently under a nitrogen blanket<br>Application for Diesel distillate sulfur removal and H2S ( hydrogen sulfide ) removal.<br>** Treatment Capacity: **<br>Raw Diesel Distillate:<br>Rated: 1,500 L/hr (9,510 gpd or 226 bpd)<br>Raw Diesel Distillate H2S Concentration: <2,500 ppmv<br>Target H2S Concentration in Treated Diesel Distillate: <50 ppmv<br>**See equipment list in links** - Includes:<br><br>• Diesel desulfurizer packed column fixed bed reactor 30" dia x 33 ft tall<br>• H2S scrubber 2-phase 18" OD x 5 ft<br>• Hydrogen compressor (2) rated 900 Nm3/hr at 1737 kPa each (31,783 scfh at 250 psig) | NEW<br><br>Alberta Canada |

## Plants/Essential Oil & CBD — 1 Items

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| **Oil Extraction System, Butane 1 TPD**<br>Asset ID: PK-6030<br>SH Capital Holdings | **Hydrocarbon Butane Natural Oil Extraction System**<br><br>Rated at approximately 1 TPD (ton per day). Last used to extract CBD, can be used for essential oils. Complete continuous system. Installed NEW in 2020 and idled in 2021. It ran only 5 to 6 batches - very few hours.<br><br>• Batch Process designed for 1000 lbs of hemp per run lasting 6 to 8 hours.<br>• (3) butane process pressure tanks 420 gallon horizontal insulated. ASME MAWP 250 psig at 100F with water jacket MAWP 15 psig.<br>• Chiller 10 tonR. Temtek BCD-10A air cooled water chiller. Motor 10 HP, refrigerant R-410A<br>• Alfa Laval plate heat exchanger 84 sf, model M6-Base<br>• Shell and tube heat exchanger Alleghany Bradford, MAWP shell/tube rated at 150 psig at 350F<br>• Rosedale ss cartridge filter, model SAN830<br>• Delta T Systems glycol cooling controls, Model EUW-36E. Heater 36 kw, pump 1.5 HP 230v 3/60<br>• (2) stainless steel jacketed tanks, Lee Tank 40 gallon capacity. MAWP tank 45 psig at 350F, Jacket 100 psi at 350F. Full vacuum vessel internal.<br>• Transformer 75 kva MGM. 3-phase 480v to 240v/120 CT<br>• Process pump, piping<br>• Most equipment is Like New - Purchased new in 2020. See equipment list<br><br>We have many photos of this system. Please ask for an invitation to our VDR (Virtual Data Room) to view. | Used - Excellent<br><br>California |

**Plants/Grain Milling** — **1 Items**

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| **Grain Milling Plant**<br>Asset ID: PK-5106<br>Agrex S.p.A | **Grain Milling Plant**<br><br>Agrex grain milling plant rated at 125 bu/hr (85 tons/day). Capabilities: Corn, Wheat, Barley, Oats, Rye, Soybeans, Grain Sorghum - was milling corn for an ethanol plant. Plant is fully automated using Allen Bradley PanelView Plus 1250 controls, 480v 3/60. Built in 2008 and ran through mid 2010 then idled. This plant occupies an area approx 55 ft x 22.5 ft and tallest piece (hopper) is 15 ft. Sold as a complete milling system. For more information and photos of the components, ask for an invitation to the Virtual Data Room (VDR).<br><br>***Very Good Condition. Ran less than 1000 hours - Fully Automated***<br><br>Equipment is removed, loaded into two 53 foot van trailers, ready for you to hook on to. Trailers included in the sale<br>**Major Equipment** --> See Equipment List in Documents<br><br>• Loading hopper<br>• Grain seed cleaner sieve<br>• Destoner<br>• Degerminator<br>• Classifier<br>• Blender<br>• Byproduct collecting beam and filter<br>• Rolling mills<br>• Purifier and filter<br>• Grits and flour transport line<br>• Pneumatic clamp tissue tightener<br><br>**Operation**<br><br>• Very low hours: Less than 1000 hours. (Paint is still on the augers)<br>• Built 2008, ran through mid 2010<br>• Briefly started again in 2013/2014 but never was operational - idled again<br>• Started again in 2022 to check out operation. Ran some corn to verify good working condition<br>• No major issues known | Used - Excellent<br><br>Illinois |

| **Plants/Hydrogen** | | **9 Items** |
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| **Hydrogen Gas Plant 25,000 scfh**<br>Asset ID: 5350<br>Hydro Chem | Hydro Chem hydrogen generating gas plant, pressure swing adsorption type. Capacity is 25,000 SCFH. Reformer designed with 8 tubes (6 installed and 2 available) and a ground mounted waste heat boiler. There are 4 psa columns. The waste heat boiler provides approximately 1 ton/hr of steam export at 230 psig. The high pressure gas compressor is a 60HP Gardner Denver. System is still installed. Does not include control panel or plc - does include instruments, valves, pipes. Built 1977 - Plant idled in 2015. | Used - Good<br><br>Mexico |

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| **Hydrogen Gas plant 50,000 scfh**<br>Asset ID: PK-1717<br>Hydro-Chem | **Hydrogen SMR Plant 50,000 scfh**<br><br>Hydrogen gas plant by Hydro-Chem designed to generate at 50,000 scfh (1.2 MMSCFD) at 99.9% purity. Has waste heat boiler, natural gas compressor, 4 psa units, FD fan & ID fan on reformer with space for 12 tubes - 8 reformer tubes were installed with 4 spare tubes to operate at 30,000 scfh to match plant operations capacities. The plant capacity is 50,000 scfh with all tubes installed. Built 1981, relocated and rebuilt in 2005 adding a waste heat boiler system and expanding the footprint, shut down 2018 and mothballed under nitrogen until removed in 2021. There is no catalyst or fill in the reformer tubes, shift converter, desulfurizer, or the PSA's. Missing psa valve skid. Plant footprint is 70 ft x 40 ft. We have P&ID, PFD, GA, and equipment drawings. Much more in our Virtual Data Room - ask for an invitation. Photos show plant as it was installed - it has been removed and stored at a warehouse - ready to load | Used - Good<br>Texas |
| **Hydrogen Gas Plant 80,000 scfh**<br>Asset ID: PK-6009<br>Hydro-Chem | **Hydrogen SMR Plant 80,000 scfh**<br><br>Hydro-Chem hydrogen gas plant. Capacity 1.9 MMSCFD (80,000 scfh or 2100 Nm3/hr). Built 2004, in operation until 2021. Was idled with nitrogen blanket on gas side until removed in 2021. Has 20 tube reformer (tubes 3.75"), 4 PSA units, waste heat export boiler. Plant is in very good condition. Design is SMR type (steam methane reforming). Complete plant including controls, plc HMI, programming, manuals, all "as built" drawings. There is no catalyst or fill in the reformer tubes, shift converter, desulfurizer, or the PSA's. Plant designed for no natural gas compressor - fed by higher pressure pipeline. See flyer in links for equipment list. More photos and data available in the Virtual Data Room (VDR - ask for invitation).<br><br>Photos show as it was installed - now removed and stored at a warehouse - ready for loading | Used - Very Good<br>Texas |
| **Hydrogen Gas Plant 83,000 scfh**<br>Asset ID: 8407<br>Howe Baker | Howe Baker hydrogen gas generating plant. Capacity 83,000 scfh (2 million scfd). PSA system with 4 psa columns, Includes reformer, waste gas steam generator boiler, vent gas tank, natural gas compressor, gas train, desulfurizer and shift converters, all heat exchangers, pumps, instruments. SPARES: complete set of psa system valves for reconditioning, brand new downcomer and ring, 13 reformer tubes, ID fan, assorted smaller spares. Controls were Bailey DCS and are not furnished however, the complete ladder logic and Modicon plc's and gas plant I/O cabinet will be made available. The plant had 3 main modules that were housed in building 40 ft x 45 ft - the PSA, reformer, waste boiler, vent gas drum outside. Complete plant footprint approx 90 feet x 72 feet. Built 1992 - was well maintained while operating, now idle. Catalyst and mole sieve has been drummed out and go with the sale. See flyer, General Arrangement, and PFD drawings in links for equipment list. | Used - Very Good<br>Decatur, IN |
| **Hydrogen Gas Plant 90,000 scfh (Partial)**<br>Asset ID: 6530<br>HydroChem | **Hydrogen Generating Plant (partial)**<br><br>• Design capacity is 90,000 scfh at 200 psig with a purity of 99.99% pure hydrogen - was running on 10 of its 20 tubes for 45,000 scfh capacity. Burner has been changed out to run the 45,000 scfh capacity.<br>• Reformer can be fired on natural gas or propane - same burner.<br>• Waste heat boiler generating 3,000 to 5,000 #/hr export steam at 250 psig.<br>• PSA plant (4 psa vessels replaced in 1998) with Jamesbury valves kept up to date, Quench pot design.<br>• Plant is missing small natural gas compressor, heat exchangers, and pumps.<br>• Has new tubes, new reformer, and new shift converter catalyst.<br>• Five (5) spare tubes available.<br><br>Engineered by Hydro-Chem built in 1980. . Plant was shut down in mid 2012, and proper shutdown procedures were followed. Reformer tubes are 6.625" OD, 5.25" ID, 30.825" long and made of alloy HP50 (also known as 25/35) | Used - Good<br>Nebraska |

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| **Hydrogen Plant 4 MM SCFD**<br>Asset ID: PK-8855<br>Pan American Hydrogen | **Hydrogen Gas Plant 4 Million SCFD**<br><br>Excellent Condition, Complete H2 Plant & OSBL Accessory Packages. 4 Million SCFD Capacity.<br>**See Marketing Deck in Links**<br><br>• 4 Million SCFD, >99.9% Purity H2<br>• Less than 3 years run-time on H2 plant<br>• Excellent condition, full turnaround maintenance in March 2023,<br>• Plant shutdown March 2024, held under N2 inert blanket<br><br>**Plant Package Includes:**<br><br>• 4 MM SCFD complete H2 plant with PSA<br>• Emerson DeltaV DCS Control System<br>• Front-end Natural Gas Compressor (1)<br>• Back-end H2 Product Gas Compressors (2)<br>• Cooling Tower and Pump for Heat Exchanger<br>• RO/DI Water System to produce BFW<br>• BFW Storage Tank and Pumps<br>• MCC Building with all Electrical Gear<br><br>Ready to Relocate, Fully Installed, Available for Inspection Today | Used - Excellent<br><br>Mississippi |
| **Hydrogen PSA System 1.3 MMSCFD**<br>Asset ID: 7251<br>Honeywell | **PSA System (pressure swing adsorption)**<br><br>**New, Never Installed**<br><br>• Built by Honeywell UOP in 2023 - New, never installed.<br>• Rated at 1.3 MMSCFD (million standard cubic feet per day). OUTPUT 1,534 Nm3/Hr. INPUT 2.05 MM SCFD<br>• PSA adsorber vessels rated at 235 psig at 34F / 168F. There are 5 PSA Vessels<br>• Plant footprint is 50 ft x 17 ft.<br>• Allen Bradley 1756 PLC control system.<br>• Two years of operation spare parts available.<br>• Unused Adsorbent available.<br>Hydrogen PSA system uses Honeywell UOP Polybed process to generate 99.99% hydrogen from feed gas (2.05 MMSCFD, 209.3psig at 100F, containing 75% of hydrogen) through 5-bed pressure swing absorption vessels.Hydrogen recovery rate from feed gas is 84.5%.<br><br>**Technical Specs and Drawings on Request** | NEW<br><br>Texas |

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| **Hydrogen PSA System 7 MM SCFD**<br>Asset ID: PK-5107 | **PSA system (pressure swing adsorption) NEW, Never Operated**<br>• Built by UOP in 1997 - never put in service.<br>• Rated at 12.1 MM SCFD flowrate infeed, 7 MM SCFD product output<br>• Hydrogen purity 99.9%<br>• System pressure 310 psig feed, Adsorber Vessels rated to 345 psig - 4 bed design<br>• Supply is Surge tank V-700 and (4) adsorbers and valve/piping skid<br>• Valves are Valtec<br>• Approx footprint is 20 ft x 37 ft. Weight PSA skid 21,000 lbs, EACH adsorber vessel 19,500 lbs each, Surge tank 62,500 lbs<br>See Links for P&ID and Arrangement. We have manual on request | New, Old Stock<br>Alberta, Canada |
| **Hydrogen PSA System 750K scfd**<br>Asset ID: PK-5103<br>HydroChem | **PSA system (pressure swing adsorption)**<br>• Built by Hydrochem in 1998 - never put in service.<br>• Rated at 750,000 scfd (standard cubic feet per day) = 30,000 scfh.<br>• This is an 8-bed design using Valteck valves.<br>• Vessels all are ASME pressure vessels MAWP 270 psig at 150F.<br>• Includes Dresser Rand hydrogen compressor on skid - discharge pressure 400 psig - MAWP 440 psig. See all nameplate details transcribed in photo. Compressor cylinder type VIP, nominal bore 12.5 inch, 1250 rpm, serial number 3VC200<br><br>Capable of purifying the gaseous composition of H2, CO2, CO, CH4, Ethane and Propane depending on the Mole% of each as long as there is NO Moisture/Condensate in those feed streams. This system can purify H2 better than 99.9%<br>Adsorbents not included (we can furnish information on what the adsorbents were. This unit is now in warehouse storage ready to load | New, Old Stock<br>New York |

**Plants/Pellet Mill Plants** — **2 Items**

**Pellet Mill Plant 120 TPD (10,000 TPY)**
Asset ID: PK-8836
Yongli-Machine

### Wood processing/pellet mill equipment - Like NEW

- Capacity pellet line is 5 TPH (tons per hour) = 120 TPD in 24 hour day
  Whole wood pellet plant that takes whole logs and processes them into pellets. Can be run in place or relocated. Built to process hardwoods, but can also do softwoods. Only ran about 40 hours. Designed for 10,000 tons per year running 40 hours per week (pellet line is 5 TPH). Includes equipment, land, and buildings. Turnkey operation is also available with start up for additional cost. Guaranteed 5 year fiber contract if operated in place. Price listed is for complete plant and land operated in place. (Option 1)

Will Sell in 1 of these 4 ways

- Option 1. Land, building, all assets for operating in place
- Option 2. Turnkey run in place - land, building, assets, AND start-up commissioning
- Option 3. Assets only plus building, for relocation
- Option 4. Assets only not including building - for relocation.

** Main Equipment **

- Wood debarker.
- Wood splitting machine.
- Wood chipper. 33 m3/hr w/ 16 flying knives, 160 kw motor. Chip 20mm
- Silo 790 cu m - 11.265 m tall. Capacity of wood chips 230 MT
- Pre-cleaner. Capacity 3-5 tph
- Hammer Mill. Rotor dia 680mm, power 90 kw, 88 hammers
- Ebullition boiler.
- Three layers Drum Dryer. Dia 2650mm
- Biomass Pellet Mill. Capacity each 2.5-3 TPH, 200kw motor
- Cooler and vibrating screener. Volume 2.5 m3, capacity 6 tph. Cooling time 6-10 min.
- Hot sealing machine
- Belt conveyor
- Screw feeder
- Bucket elevator
- Scraper conveyor
- Dust control bag filter, pulse. 256 bags, air volume 37,600 to 75,200 m3/hr

- Pellet mill (2). Power 200 kw, Pellet size 6-10 mm
- Small hand bagging station for smaller bags not needing automatically system
- Automatic bagging system. 40 bags/min form-fill-seal. Handles 5 lb to 40 lb bags
- Fanuc bag robot and palletizer system, with pallet dispenser

Like New

SW Missouri

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| **Pellet Mill Plant 62 MTPD**<br>Asset ID: PK-8765<br>ELF | **Pellet Mill Plant**<br><br>Complete Wood Pellet Mill Plant. Includes One large mill rated at 1,000kg per hour and four small mills rated at 300-400kg per hour. The mills can be run at the same time or independently. Mill was purchased new in 2024, was idled in December 2025. Total time on equipment is less than 200 hours. All of the equipment is in good condition. Two of the smaller mills were never used, the gearboxes are brand new. Built to process hardwoods, but can also do softwoods.This plant is also capable of pelletizing most biomass including ddgs and soybean meal with minor modifications for correct inlet feed to pellet mills. Power is about 480v for the entire system- need 800-1000amps. Water use is minimal. Entire process can be set up in 2000sf. Plant had been set up in a 12,000sf building and there was still 60 to 70% for indoor storage.Turnkey operation is also available with start up for an additional cost. Some spares and electrical parts included.<br><br>**Main Equipment**<br><br>• Overall footprint less than 2,000 sq ft<br><br>• (1) 75kw Pellet Mill (OPM)<br>• (4) 22kw Pellet Mill (ELF)<br>• 75kw Control Panel<br>• 22kw Control Panel<br>• (1) 4.0 M3 Silo<br>• (4) 1.3 M3 Silos<br>• Hammer Mill, hammer mill feed hopper, & hopper conveyor to hammer mill<br>• Air transport system<br>• Cross Conveyor<br>• Silo conveyor<br>• Storage cooling silo<br>• (2) Bulk bag station<br>• Piping and Vac System<br>• Chip feed system<br>• Chip feed conveyor<br>• Bulk wrapping machine<br>• (2) Dust Collector<br>• Bucket Elevator<br>• CME C4 Cooler<br>• Pellet loading conveyor<br>• Skid steer bucket | Used - Excellent<br><br>Missouri |

**Plants/TCD Thermocatalytic Depolymer** — **1 Items**

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| **TCD Pilot Plant Depolymerization 6 TPD**<br>Asset ID: PK-8835 | **Thermocatalytic Depolymerization Pilot Plant 6 TPD**<br><br>**This plant is NEW - While installed it was commissioned on water, then drained and idled. Now removed - ready to ship, modularized. This plant is 100% operational and has all the drawings, control narrative and all back-up documents**<br><br>General Capacity INFEED Lignocellulosic Feed 125 kg/hr plus 125 kg/hr petroleum/Bio hydrocarbon.<br><br>OUTFEED Distillate 152.5 kg/hr, Solids 52.4 kg/hr, and water 25 kg/hr. See PFD for details<br>Designed to employ a thermo-catalytic depolymerization/cracking process to break down long chain hydrocarbons and/or organic materials into smaller molecules. These molecular fragments are useful feedstocks that can be further refined into fuel or chemical precursors. The unit was designed to use lignocellulosic solid feed (weathered rail ties and wood waste from sawmills) along with either petroleum-based (used motor oil) or biologic-based carrier fluid (seed oil) as carrier fluids. Can be configured in many ways with various bio feedstocks and carrier fluids. See Overall Description in Links<br>**Major Components - See Listing in LINKS**<br>MCC included. Electrical 460v 60Hz Explosion proof Class 1 Div 2<br>The unit can be re-purposed/retrofitted to serve other processes such as:<br>• Chemical reclaiming, regeneration, or, purification (for example, amines used in gas sweetening, glycols used in gas dehydration, lubrication oil).<br>• Zero liquid discharge water purification via evaporation and crystallization/solids discharge.<br>• Slop/off-spec oil treatment.<br>• Essential/plant oil extraction.<br>• Natural gas sweeting or dehydration.<br>• Biomass or waste pyrolysis/hydrothermal liquefaction.<br>• Contaminated soil or solids remediation.<br>• Slurry metal extraction/leaching.<br>• Plastics recycling, remelter and reclaimer to separate out solids from waste thermoplastics or for a pyrolysis processing<br>• Medical/bio-hazardous waste treatment/recycling.<br>• Sulphur de-gassing and/or remelting. | NEW<br><br>Alberta Canada |

**Presses** **1 Items**

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| **Fiber Filter**<br>Asset ID: 2118<br>Vincent | **Vincent Fiber Filter Sludge Press 300-1500 gpm**<br><br>Sludge Press manufactured by Vincent. Model EF-30. Stainless Steel, serial number 17590-8. 30HP with a capacity of 300-1500 gpm. Built in 2019 and is presently installed in operation. Serial 17590-8 (Se fiber filter model FF-30)<br>Featuring fine filtration of high gpm throughputs, the Fiber Filter is a unique machine. It operates continuously with a fabric filter that is vibrated clean by the process flow, requiring only occasional back-flush cycles.<br>Liquid flows with fiber contents ranging from 0.3% to 1.5% are thickened to a range of 4% to 14% solids with the Fiber Filter. The filtrate liquid is remarkably clear. The Fiber Filter can replace equipment ranging from pre-thickening screens to centrifuges. Fiber Filters can be used both to thicken flow ahead of a screw press and to remove fiber from press liquor. Mechanically the Fiber Filter has a rotating paddle impeller that whirls and pulses the incoming fluid against the inside of a cylindrical filter screen. The filter sleeve, held taught in a frame, is made of a woven polymer fabric. The fabric is available in meshes ranging from 25 microns (0.001") to 300 microns (0.012"). Fabric tension is adjusted from outside the machine, improving sanitation and facilitating operation.* | Used - Very Good<br>Washington |

| Presses/Dewatering | | 1 Items |
|---|---|---|
| **Dewatering Press CP-10**<br>Asset ID: P126<br>Vincent | Vincent screw press dehydrating press, model CP-10, serial 01198-B. Continuous, rated at 1500-5,000 lbs/hr screw rpm 16, motor HP 15 460v 3/60. Physical size approx 11 ft long x 2 ft wide x 3 ft high. Weight 2700 lbs. Used for decanter solids residual liquid removal. Built 2002, idled 2006 | Used - Good<br>New York |

| Presses/Expander | | 3 Items |
|---|---|---|
| **Expander 200 MTPD**<br>Asset ID: 8837<br>TNL Tecnal | **Tecnal Expander Model EXP-205**<br><br>Series A, serial no. 105 is a heavy-duty industrial expander designed primarily for oilseed preparation (soybean, sunflower, cottonseed, and more) in the vegetable oil extraction industry. Capacity up to 200 metric tons/24-hour period based on soybean. This unit has seen light duty and was installed and in good working condition before it was removed from the process. Includes expander, 200 HP motor, belt and sheave. | Used - Very Good<br>Iowa |
| **Expander 200 MTPD**<br>Asset ID: 8819<br>Tecnal | **Tecnal 8 inch expander**<br><br>Model EXP-205 MLE with 150HP motor. Disassembled. Serial #'s 112/17 & 113/17. Rotation of 165 rpm. Last used for sunflower. Capacity up to 200 metric tons/24-hour period based on soybean. Includes hydraulic power pack. Two available ( priced separately ). | Unrated<br>Montana |
| **Expander 4.5" Dox Hivex**<br>Asset ID: 1068<br>Anderson | Anderson Expander Expeller 4½" DOX/HIVEX with high shear choke. Slotted wall, pilot expander capacity approx 24 to 34 MTPD. Serial number 11665<br>Incudes Accutherm electric circulation heater. No motor (was sized for 75 HP but not included). Unit only ran for a short time on non-abrasive algae (70% oil).<br>Oilseed Prep: Anderson developed the Dox/Hivex™ expander, an extrusion based design that crushes the seed materials, cooks them, drains their free oils and fats, and efficiently shears their oil cells for the pressing operation. The Dox/Hivex™ is an Anderson patented processing machine which reduces cooking time from the traditional 45 minutes to a total of 20 seconds | Used - Good<br>Sioux City, IA |

# S4M Asset Catalog

Listed in Category Order. Click on an Asset Name for more details.

| Presses/Expeller | | 4 Items |
|---|---|---|
| **Dupps Expeller Press**<br>Asset ID: P118-1<br>Dupps | Dupps screw press 12-10-6/S Pressor, high pressure screw press. Each includes 12" feed quill, oil discharge conveyor. Motor 200HP 1785 rpm 460v. Dupps job# 1308. Size 17'-5" long x 64" wide x 92" tall Capacity 3,150 kg/hr (7,000 lb/hr). Quantity (3) - priced separately. | Used - Fair<br>New York |
| **Press 60 to 95 MTPD**<br>Asset ID: 5450<br>Shann | Shann Full Press Model 9-99RT Serial Numbers 3294-1 and 3294-2. Motor HP 370. Brand New - never used or installed. Capacity at Full Press rated to 60 MTPD on soybean - with extruder ahead of it can do 95 MTPD. All parts are there - complete press. RT design allows the press to be reversed in case of an overload. Quantity (2) sold together as a lot. | NEW<br>Wisconsin |
| **Screw Press 60-70 TPD**<br>Asset ID: 8403<br>Krupp | Krupp EP-07 Press, used. We have primed and painted and cleaned it inside and out so the press actually looks as good as if it had been rebuilt. Used As Is, The last application was soybeans where it was running at a capacity of 60-70 TPD on extruded soybean material. Solid Shaft. Discharge has Lump Breaker installed. The press comes with 150 H.P. motor 230/460v 3/60, V-belt drive with pulley. Capacity up to 75 to 80 TPD. It has been setup for a full pressing application but was originally a pre-press and should be able to reconfigured to that (pre-press) if desired. | Used - Excellent<br>Ft. Worth, TX |
| **Screw Press, Sprout Bauer 100 tpd**<br>Asset ID: B2107<br>Sprout-Bauer | Screw Press dewatering press by Andritz Sprout-Bauer Model 575. Main drive Siemens 75 HP motor 460/360 at 1780 rpm. With Falk gear reducer. Capacity approximately 100 short tons per day (tpd) depending on feed stock. Last used for pressing corn germ. See drawing in Links for details. Qty (2) presses - priced separately | Used - Good<br>Peoria, IL |

| Process | | 10 Items |
|---|---|---|
| **Cooling Tower 757 TonsR**<br>Asset ID: CT-1004<br>BAC | BAC Cooling Tower, Model S3E-1222-10P rated at 757 TondR. Certified Capacity 3263 USGPM of water from 98.6F to 89.6F at 78F entering air wet bulb, Galvanized Steel. Single cell with 40 HP fan motor. Two sections for shipping. Circulation pump Sulzer centrifugal 75HP and pipe manifold also available as an extra option. See asset P-1005A | <br>Illinois |
| **Dehumidifier**<br>Asset ID: V2210A<br>Frigidaire | Frigidaire dehumidifier 70 pints per day capacity. Air flow 165-194 cfm, noise level 53.4 dB. Power 115v, 690 watts | Unrated<br>Texas |
| **Diesel Blending Skid**<br>Asset ID: BD-1508 | Killark diesel Blending skid, with 1/2 HP Motor NON 56T17G15520A P | <br>Illinois |
| **Exhaust Hood**<br>Asset ID: E2364 | Exhaust hood Dimensions: 76"W x 61"D galvanized | <br>Jacksonville, IL |
| **Exhaust hood**<br>Asset ID: E2366 | Exhaust hood 72"W x 56"D galvanized | <br>Jacksonville, IL |
| **Flash Dryer**<br>Asset ID: F-63<br>Mason Mfg | Flash Dryer. Mfg by Mason Mfg. Shell MAWP 14.7 psi @ 572F, MDMT -20 F @ 14.7 psi. S/N 16-6692 | <br>Illinois |

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| **Low Temp Freezer**<br>Asset ID: V2208<br>So-Low | Ultra low temperature freezer, So-Low brand. Needs about $500 work on refrigerant system to put in working shape. Capacity 27 cu ft., temp range from -40F to -112F. Two hermetic compessors 115v single phase | <br>Texas |
| **Ozone Generator 333 Lbs/Day**<br>Asset ID: M2006<br>ABB | **ABB Ozone Generator System Type OF 209 L - Quantity (3) available**<br><br>Stainless steel Ozone Generator Vessel (OGV) and Power Supply Unit (PSU).<br>**Performance**<br><br>• Rated for 333 pounds per day ozone.<br>• 17 psi ozone gas pressure.<br>• 13,320 pounds per day corresponding mass flow.<br>• 84 gallons per minute flow.<br>• 8.5 kWh per pound power consumption.<br><br>** Features **:<br><br>• OGV: Flanged dished ends with ozone-resistant gaskets, stainless steel (earth) electrodes, and metallized glass (high voltage) electrodes.<br>• PSU: Main switch, main breaker, current rectifier controller, DC-choke, current inverter, high voltage transformer, and Programmable Logic Control (PLC) system.<br><br>PSU can be controlled manually or by remote set point. System in good working condition when removed from service<br>3 Units Available - Priced Separately | Used - Good<br>California |

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| **Steam Sterilizer**<br>Asset ID: 8824<br>ETIA | **Safesteril 600-Steam Sterilizer**<br><br>Model 600 - capacity approx 3 cu m/hr.<br>Safesteril Sterilizers patented Spirajoule technology preheats the powders and whole herbs, spices, grains, or nut powders (below 20-25mm size) at 70 to 90 degrees Celsius or above by joules effect. The steam disinfection is then used in form of either saturated / super-heated/ or no steam (utilizing product own moisture for sterilization, where we require very less moisture in final sterilized product and inlet moisture is 10% what is maximum for Safesteril Sterilizers). It is heated in such a way that there is minimal changes in the color, flavor, and moisture of the grains, spices, nuts or powders. Operated for approximately 4,000 hours and is in good condition. Originally designed for germ reduction, sterilzation, and pasteurization of almond flour at 920 kg/hr.<br>Safesteril® is an innovative and patented Continuous Steam Sterilization Process developed by ETIA for spices, herbs, dehydrated vegetables, seeds, cereals and other food and pharmaceutical ingredients.<br>Safesteril® process relies on:<br>• Steam sterilization, this step controls the time and temperature due to a “first in, first out” conveying system.<br>• Homogeneous and gentle mixing of the product in order to have the most efficient and homogeneous treatment.<br>• No condensation flash cooling system provides a thermal shock to the microbes, a good stabilization of the product, and a safe packaging operation. Glycol chiller on the cooling cycle<br>Includes:<br><br>• Hopper & Dosing Screw<br>• Transfer Screws<br>• Spirajoule 600L6V170P100E8<br>• Steam Flow Control Accessories<br>• Cooling Screw<br>• Exhaust Fan for Steam and Air Exhaust<br>• Control Cabinet with Allen Bradley Automation<br>• 150 kW Transformer<br>• Platform and Supports<br><br>Also includes optional add-ons:<br><br>• Water Chiller<br>• Air Dehumidifier<br>• Spare Parts Kit<br>• 7.5kW Steam Booster<br>• Hardware for Cellular Connection<br>• Remote I/O Connections | Unrated<br><br>Iowa |
| **Vacuum System**<br>Asset ID: P-811<br>BUSCH | Vacuum system consisting of a precondenser, U-24 KOP, WT0352 booster, U-12 KOP and NC0630 pump. P-811A Booster pump 1242 ACFM, 10 HP, 3515 RPM, 11.6 FLA, P-811B Bio dis vacuum pump 371 ACFM, .000295 Hg, 20 HP, 3600 RPM, 23.2 FLA | <br><br>Illinois |

**Process Supplies & Chemicals/Catalyst** — **3 Items**

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| **Catalyst (Thiocat)**<br>Asset ID: 8859 | Thiocat Catalyst<br>Thiocat is a proprietary ex-situ fixed-bed catalyst sulfiding and pre-activation technology offered by Chem32, a division of Ecovyst. It prepares refinery and petrochemical catalysts before they are loaded into reactors<br>Have 22 barrels of the Thiocat (8437.5 lbs net) | New, Old Stock<br>Alberta Canada |
| **Catalyst - Methanol**<br>Asset ID: 41-CA-168<br>Sud Chemie - Clariant | MegaMax 700 by Sud Chemie, (Clariant) 3 drums of Catalyst - New drums "Methanol Catalyst". Each plastic drum has 3.63 cu ft material and weighs gross 278 pounds each (net is 265 pounds of material or 120 kg)). Note: new in 2009, not activated. Priced per drum | New, Old Stock<br>Soperton, GA |
| **Molecular Sieve (Sylosiv )**<br>Asset ID: 8857<br>SYLOSIV | NEW Catalyst - SYLOSIV® Approximately - Powder 60,000 kgs total (60 super sacks at 1000 kg ech)<br>SYLOSIV® A 10HD Molecular Sieve Powder<br>**Product Description:** SYLOSIV® A 10HD Molecular Sieve Powder is a micronized, hydrated, highly porous, crystalline aluminosilicate with pore openings of approximately 10 Å. SYLOSIV® A 10 is a high-performance micronized molecular sieve powder (synthetic zeolite NaX) used as a moisture scavenger in coatings, plastics, and metallic pigment systems. The "HD" designation typically indicates a high-density or specialized physical grade version of this W.R. Grace moisture control agents.<br>**Property UOM Value**: Loss on Ignition (550°C) % 23.0 max., Bulk Density g/l 680 min., Particle Size D50 µm 5 - 8<br>**Packaging Information**. The standard packaging for SYLOSIV® A 10HD Molecular Sieve Powder is:1000 kg/Big Bag pallet: 1200 x 1000 mm | New, Old Stock<br>Alberta Canada |

| **Process/CIP / COP** | | **1 Items** |
|---|---|---|
| **COP Tanks & Systems**<br>Asset ID: 1975<br>China | Clean Out of Place (C.O.P.) tanks - .All stainless steel 304. These are all new tanks. The quote offered is for ONE tank in this configuration shown but we offer 4 different sizes and configurations.<br>COP tank length 10 ft x width 24 " x depth 22 ". Overall height 40 ". Internal spray manifolds and external spray manifolds. Solution pump: 5 HP 3,500 rpm 230v 3/60. Includes (4) 6" caster wheels. See tank drawing in Document Link.<br>• For 6 foot long COP tank subtract $1,500 from quotation<br>• For 8 foot long COP tank subtract $600 from quotation<br>• For 12 foot long COP tank, add $1,350 to quotation<br>• Note: a pipe draining rack can be provided, we can furnish COP tanks with or without recirculating pump<br>The above outlined Clean Out of Place (C.O.P.) Tanks may be available for shipment, from the manufacturer's factory (China) in an estimated 60 days from date of receipt of an order. Shipping time from the manufacturer's factory to a California Port of Disembarkation is currently erratic; however, believed to be 21-25 days.<br>Terms of Payment:<br>Fifty Percent (50%) deposit with your order<br>Fifty Percent (50%) balance when ready for shipment | NEW<br>Long Beach, CA |

| **Process/Cooling Tower** | | **4 Items** |
|---|---|---|
| **Cooling Tower 102 ton**<br>Asset ID: U105<br>BAC | BAC chiller Model VTO-102-MMAX, serial C020266402. Rated 102 tons, motor 15 HP, airflow 25,060 cfm. Weight 2500 lbs. Built 2002, idled 2006 | Used - Fair<br>New York |

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| **Cooling Tower 88 ton**<br>Asset ID: U104<br>BAC | BAC chiller Model VTO-88-L, serial number C02066401. Rated 88 ton motor HP 15, airflow 20,420 cfm. Shipping weight 2190 lbs. Built 2002, idled 2006 | Used - Fair<br>New York |
| **Cooling Tower 268 tons**<br>Asset ID: 7232<br>BAC | BAC cooling tower, Model PT2-1009A-2M. Has been reconditioned. Nominal rating 268 tons, approx. 800 gpm water flow, air movement 62,860 cfm. Includes structure. Galvanized one cell. Sn U084584101, Motor 20HP. Belt # 3R-8136. Rated at 3 US gpm per ton. About 6 months run time. Physical size approximately 8 ft-11" x 8 ft-5" x 8 ft tall, weight 8,080 pounds not including structure. Structure is included in price if you want it. Was in good operating condition when idled in 2022 | Reconditioned<br>Moberly, MO |
| **Cooling Tower 600 tons**<br>Asset ID: 8843<br>Tower Tech | **Cooling Tower**<br><br>Tower Tech. Model # TTXE-061975. Rated at 600 tons. Fiberglass Construction. Has 6 fans for 45 HP total. Flow Capacity is 1819 gpm. The cooler was used for 3 months, and was idled in 2008.<br>Tower Tech TTXR-061975 is an open-circuit, factory-assembled modular fiberglass (FRP) cooling tower. It utilizes a bottom-fan, counter-flow design engineered for high thermal performance, reduced drift rates, energy efficiency, and high resistance to severe weather and corrosion. | Used - Excellent<br>Alberta Canada |

| **Process/Reactor** | | **7 Items** |
|---|---|---|
| **Catalytic Converter Reactor**<br>Asset ID: 41-R-168<br>Wagner | Catalyst Converter designed for 3.9 MMBTU/hr. Design specifications are for 14,500 gallons/day crude methanol or 12,500 gal/day mixed alcohols. Mfg by Wagner Plate Works in 2009. Size approx 7 ft dia ID x 19'-11" s/s x 31 ft overall height for approximately 7,600 gallons capacity - tube bed approx 17 ft long. Has 1,028 x 1.9" O.D. tubes Sch 80 stainless steel TP304L, shell cs 516-70 4 inch thick. ASME Nat'l Bd# 55, MAWP shell 2250 psig/FV at 650 F. MAWP tubes 1650 psig at 650F. Converter currently loaded with approx 150 cu ft methanol catalyst - Sud Chemie MegaMax 700. Still installed - price does not include removal. Shipping size will be about 12 ft x 12 ft x 35 ft long. Note: we have the complete reactor module as well with all pieces shown in photos plus instruments - see asset ID FP411. | Used - Very Good<br>Soperton, GA |
| **Cavitation Reactor**<br>Asset ID: 2446<br>Hydro Dynamics | **Shockwave Power Reactor**<br><br>Shockwave Power ( cavitation ) Reactor. Model BD50.Total input flow rate is 100gpm, driven by 200HP, and an annual capacity of 55MM / gallon ( based on continuous flow and 95% uptime. Idled in 2019<br>Harnessing the power of cavitation, the Shockwave Power Biodiesel Reactor drives the transesterification reaction to completion in seconds. In true continuous or batch systems, the SPR gives biodiesel producers greater feedstock flexibility and the power to achieve consistently superior quality. The SPR can improve processes to reduce monoglycerides and reduce catalyst utilization. | Used - Good<br>Rome, GA |
| **Cavitation Reactor**<br>Asset ID: 2447<br>Hydro Dynamics | **Shockwave Power Reactor**<br><br>Shockwave Power ( cavitation ) Reactor. Model BD15. Total input flow rate is 30 gpm, driven by 60 HP motor, and an annual capacity of 15MM / gallon (based on continuous flow and 95% uptime). Idled in 2019<br>Harnessing the power of cavitation, the Shockwave Power Biodiesel Reactor drives the transesterification reaction to completion in seconds. In true continuous or batch systems, the SPR gives biodiesel producers greater feedstock flexibility and the power to achieve consistently superior quality. The SPR can improve processes to reduce monoglycerides and reduce catalyst utilization. | Used - Good<br>Rome, GA |

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| **Fischer-Tropsch Reactors**<br>Asset ID: B-1012<br>Velocys | **Velocys Fischer-Tropsch Reactors - NEW, Never Used**<br><br>Capacity Design Rate at 175 bbl/day. New Reactors using Fischer-Tropsch technology.<br><br>• Velocys has a patented catalyst and microchannel reactor system that enables production of SAF and Renewable Diesel from a vast range of sources.<br>• Microchannel reactor provides a compact modular and scalable solution<br>• Catalysts enable high volumetric productivity, 6-10 times that of traditional FT technology<br>• System can achieve high per-pass and overall CO conversion and maximize throughput at same fresh syngas to reduce c.5% OPEX<br><br>Quantity (4) reactors - priced separately<br>Also available (6) charges of catalyst for these 4 reactors at an additional cost | NEW<br>Houston,TX |
| **Reactor**<br>Asset ID: AF4 | Reactor vessel. Stainless steel reactor. Material assumed to be ss304. Custom reactor for particle production with gas feeds site ports, instrument ports. Dwyer differential pressure transmitter. Stir/agitator motor drive for shaft at top, 10HP at 1770 rpm. Reactor size is 34" dia x 98" tall for capacity of 350 gallons Mounted on carbon steel frame. Frame size is 53" x 59" x 157" tall. | Used - Very Good<br>Illinois |
| **Reactor**<br>Asset ID: R1001<br>Mueller | Vertical jacketed tank used as a biodiesel reactor. Has top agitator for reactor mixing. Tanks mfg by Mueller. s/n 357210-14. MAWP 30 psi at 100F. Carbon steel, jacketed, dish bottom/dish top, on legs. Jacket heated by thermal oil. Size approx. 7 ft ID x 8 ft OD x 11 ft tall for capacity 2,800 gallons. Qty (3) - priced separately | Used - Very Good<br>Moberly, MO |
| **Reactor Hydrogenation**<br>Asset ID: 1751<br>DVC Process Technologies | Hydrogenation reactor stainless steel 304. NEW reactor - Volume 20 cu M for a 12.5 MT batch size. (5358 gallons) Has edible oil capacity of 42,000 pounds - designed to run 35,000 pound batches. Cylindrical tank with heating/cooling coils, nozzles for oil, sight glass, hydrogen ports, top mounted agitator. MAWP 90 psig at 500F. OD 2000 mm x height 8000 mm. Shipping dimensions L x W x H are 8000 x 2300 x 2500. Will fit into a 40 ft HC container. NEW reactor so we can design to your needs - lead time 10-12 weeks. FOB India Port Nhava Sheva | NEW<br>India |

| **Process/Vacuum** | | **4 Items** |
|---|---|---|
| **Steam Ejectors**<br>Asset ID: B2078<br>Graham | Graham Steam Ejector System 2-stage, Includes 8" Barometric Precondenser water rated FV & 15 psig. SN: 17-14060-1. We count (6) precondensrs, and 5 steam ejectors. Incomplete systems. There should be (3) complete sets there but Buyer will have to inspect. Two skids - priced for the LOT. | Used - Fair<br>Peoria, IL |

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| **Ultra High Vacuum System**<br>Asset ID: V1001 | **Ultra-high Vacuum (UHV) system**<br><br>Vacuum system is designed to simulate the space environment of a geosynchronous satellite. This includes considerations for vacuum, temperature, radiation, and other factors. Base pressures 1 x 10(-9) to 1 x 10 (-10) torr. Main pieces listed below - See Details of each in Link.<br>**Features**<br><br>• Vacuum Chamber: Ultra-high vacuum chamber with all sensors / gauges to simulate the space environment of geosynchronos satellites<br>• Pumping System, Pfeiffer molecular diffusion vacuum pump<br>• Temperature Control<br>• Monitoring and Control System<br>• Safety System, interlocks<br><br>**Capabilities**<br><br>• Radiation Simulation<br>• Solar Simulation | Like New<br><br>Colorado |
| **Vacuum System Steam Ejector**<br>Asset ID: 7114<br>Gardner Nash Kinema | 2 Stage steam ejector vacuum system. Gardner Nash Kinema Master Serial number 844042: barometric condenser PY, 1st stage steam ejector Y, intercondenser YZ, and 2nd stage steam ejector Z. Gardner Nash Kinema project #1961499, sales order# 1407528. Last used with a thin film dryer. System removed and ready to load. RD-? | Used - Fair<br><br>Texas |
| **Vacuum System Steam Ejector**<br>Asset ID: 7115<br>Nash Kinema | 2 Stage steam ejector vacuum system. Nash Kinema Master serial # 844402, serial number for the set 9104082. Barometric condenser PY, 1st stage steam ejector Y, intercondenser YZ, 2nd stage steam ejector Z. Missing 2nd stage steam ejector (EJ-0315) but we can order it for you. Used - Last used with a thin film dryer - removed and ready to load. RD-79 | Used - Fair<br><br>Texas |

| **Pump** | | **47 Items** |
|---|---|---|
| **Biodiesel Loadout Pump**<br>Asset ID: BD-1507 | Biodiesel loadout pump | <br><br>Illinois |
| **Can Pump**<br>Asset ID: P-508<br>Teikoku | Teikoku F60-3215N4BL-0204SF1-AV, S/N 2014004320 pump, 5.8 HP, 460 volts, 60 Hz, 3 phase with VFD. Last used as Post E Dryer Flash Vessel Drain pump | <br><br>Illinois |
| **Can Pump**<br>Asset ID: P-509<br>Teikoku | Teikoku 3.3 HP, 460 volts, 60 Hz, 3 phase with VFD. Last used as PW Feed pump | <br><br>Illinois |

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| **Can Pump**<br>Asset ID: P305<br>Flowserve | Flowserve Innomag Feed pump 10 HP, 460 volts, 60 Hz, 3 phase with VFD. 1.5x1x8 inches. BM69011100-BCO, Serial 69400, 6.9 inch imp. Diameter. Last used as Methanol Daty Tank Feed Pump | Illinois |
| **Can Pump**<br>Asset ID: P-502<br>Teikoku | Teikoku Feed pump F60-3211N4BL-0204SF1-AV, S/N 2014004326, 15 gpm, 166 Ft. Hd, Driven by 5.3 HP, 460 volts, 60 Hz, 3 phase, with VFD motor. Last used as ME Dryer Feed pump | Illinois |
| **Can Pump**<br>Asset ID: P-505<br>Teikoku | Teikoku Drain pump F60-3215N4BL-0204SF1-AV, S/N 2014004319,20 gpm, 160 Ft. Hd., Driven by 5.8 HP, 460 volts, 60 Hz, 3 phase with VFD motor. Last used as ME Dryer Drain pump | Illinois |
| **Can Pump**<br>Asset ID: P-703<br>Teikoku | Teikoku feed pump 15 GPM, 180 ft. hd., driven by 16.6 HP, 460 volts, 60 Hz, 3 phase with VFD. Last used as Feed pump | Illinois |
| **Can Pump**<br>Asset ID: P-705<br>Teikoku | Teikoko Reboiler pump F41-41TU4L-0608T1-AV, S/N FG-1382A, 22.8 HP, 460 volts, 60 Hz, 3 phase. Last used as Reboiler pump | Illinois |
| **Can Pump**<br>Asset ID: P-709<br>Teikoku | Teikoko Reflex pump 25 GPM, 169 ft. Hd., F60-3315N4BL-0204TF1-AV, S/N 2014004322, 16.6 HP, 460 volts, 60 Hz, 3 phase with VFD. Last used as Reflex pump | Illinois |
| **Can Pump**<br>Asset ID: P801<br>Teikoku | Teikoku Feedpump F64-215C4BM-0405S1V-AV, S/N CV-4637-2 | Illinois |
| **Can Pump**<br>Asset ID: P-807<br>Teikoku | Teikoku Feed pump 150 GPM, Driven by 1HP, 460 volts, 60 Hz, 3 Phase. Last used as Feed pump | Illinois |
| **Can Pump**<br>Asset ID: P-808<br>Teikoku | Teikoku Reboiler pump FA41-316X4M-0608R1V-AV, S/N CK-2744, 10.1 HP, 460 volts, 60 Hz, 3 phase. Last used as Reboiler pump | Illinois |
| **Can Pump**<br>Asset ID: P-201<br>Teikoku | Teikoku Canned Motor Pump F60-3211N4BL-0204F1-AV, s/n 2014004324, 22 GPM, 103 Ft, 5.3 HP, 3600 RPM, 8 Fla. Last used as Filtered FD Feed Pump | Illinois |
| **Can Pump**<br>Asset ID: P-B100<br>Sulzer | Sulzer Pump CPT 21-3, No 100132829, 2725 RPM. Driven by 5.3 HP, 460 volts, 60 Hz, 3 phase with VFD. Last used as B100 Loading Station Pump | Illinois |
| **Can Pump**<br>Asset ID: P-1006<br>Teikoku | Teikoku Canned Motor Pump F60-3211N4BL-0408SF1-AV, S/N 2016006025, 110 GPM, 214 TDH, Driven by 16.6 HP, 460 volts, 60 Hz, 3 phase. Last used as Dow X Water Pump | Illinois |

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| **Can Pump**<br>Asset ID: P-102<br>Teikoku | Teikoku 22 GPM, 155 Ft, 10 HP, 3600 RPM, 14.5 FLA. SN 4014004318 Last used as FD Dryer Feed pump. | Illinois |
| **Can Pump**<br>Asset ID: P-107<br>Teikoku | Teikoku canned motor pump 7 GPM, 148 ft. hd.F41-217U4L-0204S1-AV, S/N FG-1378A, 36.4 GPM, 148 Ft,3.1 HP, 3450, RPM, 7.5 Fla | Illinois |
| **Centrifugal Pump**<br>Asset ID: P-109<br>SULZER | Sulzer centrifugal pump CPT22-1 LF, SN 100131477, 31.6 GPM, 109.9 ft hd, 6.5. Driven by 5 HP, 1770 RPM, 460 Volts, 60 Hz, 3 phase. Last used as FD DE Vessel Drain pump | Illinois |
| **Centrifugal Pump**<br>Asset ID: P-1003<br>Dean Pump | Centrifugal Pump 3x4x8 RA3146 Dean pump Division S/N 175506, 235 ft Head, 490 GPM, 3500 RPM, Impeller 7-7/8. Driven by 60 HP, 3550 RPM, 60 Hz Motor. Last used as DowX NF Pump | Illinois |
| **Centrifugal Pump**<br>Asset ID: P-1005A<br>Sulzer | Centrifugal Pump CPT31-6 Sulzer 100133882 8x6x13, 120 ft Head, 1500 USGPM, 1770 RPM Driven by 75 HP, 1770 RPM, 60 Hz Motor. Last used as Cooling Tower Pump | Illinois |
| **Centrifugal Pump**<br>Asset ID: P-1005B<br>Sulzer | Centrifugal Pump CPT31-6 Sulzer 10013390, 1500 GPM, 120 Ft Hd. Driven by 75 HP, 1800RPM, 460 volts, 60 Hz, motor. Last used as Dow X Water Pump | Illinois |
| **Centrifugal Pump**<br>Asset ID: P-112<br>SULZER | Sulzer Centrifugal pump CPT-23-1B, S/N 100131147, 40 GPM, 120 Ft. Hd. Driven by 7.5 HP, 460 volts, 60 Hz, 3 phase motor. Last used as VLF Feed pump | Illinois |
| **Centrifugal Pump**<br>Asset ID: BDPC-158<br>Dean Pump | Dean pump 4x6x10 S/N 196598, 1320 GPM at 195 head, TECO 100 HP, 3650 RPM motor | Illinois |
| **Explosion Proof Pumps (4)**<br>Asset ID: 8576<br>China Zhejiang Yuanya Pump Co. | Sanitary pump with explosion proof motor. Turbine pump for negative NPSH pressure to negative pressure 0.09 Mpa. Pump rated at 1 MT/hr at 30 m head (4.6 gpm at 98.4 ft TDH). Pump inlet/outlet 51mm/38mm. All stainless steel 316L. Motor is 2.2 KW (3 HP) at 3410 rpm 460v 3/60. Quantity (4) - priced separately | Used - Good<br>Colorado |
| **Feed Pump**<br>Asset ID: P304<br>Teikoku | Teikoku F60-3211N4BL-0204SF1-AV, S/N 2015004881 Pump 20 GPM, 92 Ft, 5.3 HP, 3600 RPM, 8.0 FLA | Illinois |
| **Feed Pump**<br>Asset ID: P-404<br>Teikoku | Teikoku F60-3115N4BL-02045G1-AV, S/N 2014004327 Pump 20 GPM, 92.4 Ft, 3.3 HP, 3600 RPM, 5.5 FLA | Illinois |

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| **Liquid Ring Pump**<br>Asset ID: P-507<br>BUSCH | Busch Vacuum Pump Driven by 7.5 HP, 460 volts, 60 Hz, 3 phase. S/N 600015607/1Last used as ME Recovery Vacuum System | Illinois |
| **Liquid Ring Pump**<br>Asset ID: P116<br>BUSCH | Busch Vacuum pump LB0063A AMB XX IX,4 GPM, Driven by 7.5 HP, 1800 RPM, 38 ACFM 5.5 FLA, 28.9 in HG. Last used as FD Dryer Vacuum Pump | Illinois |
| **Liquid Ring Pump**<br>Asset ID: P-111A<br>BUSCH | Busch vacuum pump 3.0 HP, 460 volts, 60 Hz, 3 phase. Last used as FD Filter Vacuum System | Illinois |
| **PD Pump**<br>Asset ID: P115<br>SULZER | Sulzer Pump model CPT23-1B designed for Capacity 150 gpm @ 99 Head. 1770 RPM. No. 100131479. Driven by 7.5 HP motor 1800 rpm. Last used as FD Loading Pump. | Illinois |
| **PD Pump**<br>Asset ID: P-922<br>Viking | Viking positive displacement pump by Central State Group, 20 GPM, 160 Ft. Hd., F60-3215N4BL-0204SF1-AV, S/N 2014004317, . 25 HP, 460 volts, 60 Hz, 3 phase. Last used as Glycerin Unloading Pump | Illinois |
| **PD Pump**<br>Asset ID: P-214<br>Viking | Viking Positive displacement pump 10.3 GPM, 218.8 Ft, 3 HP, 28 ft Net positive suction head, suction pressure 25.4 psi. Last used as Sweet water drain pump | Illinois |
| **Plunger Pump**<br>Asset ID: P-303<br>CAT Pump | CAT Plunger Pump 1DXM7562T model 3511.AMI. Designed for Capacity 14 gpm, 3000 max pressure. Motor HP 40 1700 RPM Material 316 SS. Last used as FFA HP Feed Pump. | Illinois |
| **Plunger Pump**<br>Asset ID: P-307<br>CAT Pump | CAT Plunger Pump 1DXM7562T model 3511.AMI. Designed for Capacity 14 gpm, 3000 max pressure. Motor HP 40 Material 316 SS. Last used as Methanol Super-1 HP Feed Pump. | Illinois |
| **Plunger Pump**<br>Asset ID: P-402A<br>CAT Pump | CAT Plunger Pump 1DXM7562T model 3511.AMI. Designed for Capacity 14 gpm, 3000 max pressure. Motor HP 40 1700 RPM Material 316 SS. Last used as Methyl Ester HP Feed Pump. | Illinois |
| **Plunger Pump**<br>Asset ID: P-405<br>CAT Pump | CAT Plunger Pump 1DXM7562T model 3511.AMI. Designed for Capacity 14 gpm, 3000 max pressure. Motor HP 40 1700 RPM Material 316 SS. Last used as Methanol Super-2 HP Feed Pump. | Illinois |
| **Plunger Pump**<br>Asset ID: P-203<br>CAT Pump | DXP Cat Pump 1DXM75627,10 GPM, Driven by 40 HP, 460 Volts, 60 Hz, 3 phase with VFD motor. Last used as FD HP Feed Pump | Illinois |
| **Plunger Pump**<br>Asset ID: P-207A<br>CAT Pump | DXP Cat Pump 1DXM7562T, 10 GPM, Driven by 40 HP, 460 Volts, 60 Hz, 3 phase with VFD motor. Last used as PW HP Feed pump | Illinois |

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| **Pump**<br>Asset ID: P120 | Pump 41 GPM, 92 Ft, 4.6 HP, 3500 RPM, 7.5 Fla, Last used as Biodist. Feed Pump | Illinois |
| **Pump**<br>Asset ID: P-705A<br>Teikoku | Pump 264 GPM, 138 Ft., 22.8 HP, 3600 RPM, 31 FLA | Illinois |
| **Pump**<br>Asset ID: P-706<br>Teikoku | Teikoku F41-215U4L-02045S1-AV, S/N FG-1379A Pump 13.2 GPM, 29.3 Ft. Hd, Driven by 2.3 HP, 3600 RPM, 3.7 FLA motor | Illinois |
| **Pump**<br>Asset ID: BD-1511 | Teikoku Drain pump F60-3215N4BL-0204SF1-AV, S/N 2014004312,20 gpm, 160 Ft. Hd., Driven by 5.8 HP, 460 volts, 60 Hz, 3 phase with VFD motor. Last used as Pump from BD Dryer | Illinois |
| **Pump**<br>Asset ID: P-512<br>Viking | Viking pump NPE Series S/N 15T1HDA2, 3.0 HP, 460 Volts, 60 Hz, 3 phase with VFD. Last used as Heavy Phase Drain Pump | Illinois |
| **Sanitary Centrifugal Pump, ss316**<br>Asset ID: V4017<br>Qpumps | **Centrifugal Pump with Cart & VFD**<br><br>Q-pumps stainless steel centrifugal pump with portable cart on wheels and VFD./ cord with 460v plug.<br>Q-Pumps® QC+216-MD-21-E-2X1.5 is a sanitary centrifugal pump designed for food, beverage, and agricultural applications.<br>Key Specifications & Features<br>• Inlet/Outlet Ports: 2 in Inlet x 1-1/2 in Outlet with clamped (Tri-Clamp) connections<br>• Housing & Material: 316L Stainless Steel Housing<br>• Impeller: 6 in Open Impeller<br>• Seal Type: Single Mechanical Seal<br>• Elastomers / Gaskets: EPDM Gaskets<br>• Motor Frame: NEMA 21 Frame<br>• Certification: 3-A Sanitary Certified<br>• QC+ Series Design: Features a threaded stub shaft and collar mount for more stable impeller and shaft assembly, plus easier maintenance compared to standard QC series pumps. | Used - Excellent<br>Jacksonville, IL |
| **Triple Diaphragm Pump (3)**<br>Asset ID: V4020<br>KNF | Triple diaphragm pumps. Manufactured by KNF. Model # FK 1.1100 KTDCB-4. Three available- priced separately.<br>The KNF FK 1.1100 Diaphragm Liquid Pump is a high-performance, low-pulsation OEM liquid pump designed for precision fluid handling.<br>Key Specifications (FK 1.1100 Series)<br>• Maximum Flow Rate: Up to 12.4 L/min<br>• Maximum Operating Pressure: Up to 6 bar (rel.) for the high-pressure 1.1100 variant<br>• Maximum Suction Height: 4.5 mH2O (dry conditions)<br>• Motor Type: Brushless DC (DCB-4 variant) or AC options<br>• Key Features: Self-priming, dry-run proof, low pulsation (< 200 mbar), and high chemical resistance.One inlet-one outlet with a 3-diaphragm internally. | Used - Excellent<br>Jacksonville, IL |

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| **Vacuum Pump**<br>Asset ID: P-8622<br>Nash | Vacuum pump by Gardner Denver Nash, Model 44SX010V5K000, 1750 max RPM, Driven by 3 HP, 17670 RPM, 60 Hz motor. Last used as Flash Dryer Vacuum Pump | Illinois |
| **Wet methanol pump**<br>Asset ID: BD-1510<br>Flowserve | Flowserve Innomag Pump BM69011100-BCO, 6.9 Imp. Dia/8.25 inch S/N 68429, 1.5x1x8 inches | Illinois |

| **Pump/Centrifugal** | | **16 Items** |
|---|---|---|
| **Centrifugal Pump**<br>Asset ID: 380-PU-872<br>Durco | Recirculation pump. 4350 GPM @ 65TDH, Alloy D20, Durco Mark III Centrifugal pump, Size 3K10x8-16H/160RV. Designed for capacity 4950 gallons at 65 ft TDH. Skid mounted. Inlet 10 inch/outlet 8 inch. Driven by 125 HP motor 460v/1200 rpm .Part of Evaporator package PK-6045 and might not be able to be sold separately - Ask Us. For a list of all components, enter "pkevap" in the keyword search terms box. | Used - Very Good<br>Saskatchewan, Canada |
| **Centrifugal Pump**<br>Asset ID: 7137G | Centrifugal pump with Baldor Super-E Cat. No EM3771T, Spec 07H02W279, Frame 215T, 10 TE HP, sn F999, Volts 230/46, 23.8/11.9 Amps, 3525 RPM, 60 Hz, 3 phase | Used - Fair<br>Grant City, MO |
| **Centrifugal Pump**<br>Asset ID: 7139B<br>Durco | Durco centrifugal pump. Size 2K 3x1.5-10/96. Serial 405665. Includes 50HP Marathon electric motor @ 3515 RPM. 230/460V, 116/80A. Used - will need reconditioning | Used - Fair<br>Grant City, MO |
| **Centrifugal Pump**<br>Asset ID: V2268 | Cast iron self priming pump with motor | Unrated<br>Texas |
| **Centrifugal Pump**<br>Asset ID: V2249<br>AMT | AMT self priming centrifugal pump model 2876-95. Approx capacity 250 gpm at 60 ft TDH. Driven by 7.5 HP motor 3525 rpm 460/3/60 | Texas |
| **Centrifugal Pump**<br>Asset ID: V2250<br>AMT | AMT self priming centrifugal pump model 2875-95. Driven by 5 HP motor 3525 rpm 460/3/60. Approx capacity 250 gpm at 60 ft TDH. Quantity (6), priced separately | Texas |
| **Centrifugal Pump**<br>Asset ID: V2262<br>AMT | AMT self priming centrifugal pump model 2875-95 driven by 5 HP motor 3550 rpm 480/3/60. Rate approx 250 gpm. See pump brochure | Texas |
| **Centrifugal Pump**<br>Asset ID: V2233<br>AMT | AMT centrifugal pump 429K-X8 driven by 1 3/4 HP motor. Stainless steel 1 inch centrifugal pump Max flow 33 gpm at 42 ft TDH. Hazardous Duty Explosion Proof motor AMT 316 SS Transfer pumps are designed to handle liquids and chemicals with specific gravities to 1.6. The pumps are particularly well suited to applications involving perchloroethylene (PCE) and are recommended for use in hazardous liquids. These 1" pumps are fitted with FKM mechanical seal and O-ring. Self-priming to 6 feet. Type 6 seal.. Qty(4) - priced separately | Texas |

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| **Centrifugal Pump SS**<br>Asset ID: 7137A<br>Summit | Summit centrifugal pump, stainless steel wetted parts. Model 2196. Size 3 x 4-13, impeller dia 12.25. ser 331303. Originally designed fo a 40HP Baldor electric motor @ 1760 RPM. 230/460V. We are offering ss pump, bedplate - Only. If you want motor, please add $400 and we will mount a used working TEFC 40 HP motor on pump/bedplate. Price includes loading on your truck | Used - Fair<br>Grant City, MO |
| **Centrifugal Pump, ss**<br>Asset ID: 5994<br>Waukesha | Waukesha Cherry Burrell Centrifugal Pump, stainless steel. Close coupled with motor.10 HP Baldor-Reliance- 2x2. S/N 1000002442475 | Unrated<br>Jacksonville, IL |
| **Pump**<br>Asset ID: V2270<br>AMT | AMT centrifugal pump model 429K-X8 stainless steel driven by 1 3/4 HP motor. Stainless steel 1 inch centrifugal pump Max flow 33 gpm at 42 ft TDH. Hazardous Duty Explosion Proof motor AMT 316 SS Transfer pumps are designed to handle liquids and chemicals with specific gravities to 1.6. The pumps are particularly well suited to applications involving perchloroethylene (PCE) and are recommended for use in hazardous liquids. These 1" pumps are fitted with FKM mechanical seal and O-ring. Self-priming to 6 feet. Type 6 seal | Unrated<br>Texas |
| **Pump, Sanitary Centrifugal**<br>Asset ID: 5993<br>Waukesha | Stainless Steel close coupled sanitary centrifugal pump. Waukesha S-line Model C218. 2 x 1 1/2 - 8. Max capacity 217 gpm @ 42 ft head. Gator Motor is 5 HP, 1765 rpm 460v 3/60. All wetted parts are stainless 316L. Open impeller design for easy cleaning, CIP capability. | Unrated<br>Jacksonville, IL |
| **Self Priming Centrifugal Pump**<br>Asset ID: V2269 | Self Priming Centrifugal Pump with motor | Unrated<br>Texas |
| **Self Priming Centrifugal Pump**<br>Asset ID: V2263<br>AMT | AMT centrifugal pump model 429K-X8 stainless steel driven by 1 3/4 HP motor. Stainless steel 1 inch centrifugal pump Max flow 33 gpm at 42 ft TDH. Hazardous Duty Explosion Proof motor AMT 316 SS Transfer pumps are designed to handle liquids and chemicals with specific gravities to 1.6. The pumps are particularly well suited to applications involving perchloroethylene (PCE) and are recommended for use in hazardous liquids. These 1" pumps are fitted with FKM mechanical seal and O-ring. Self-priming to 6 feet. Type 6 seal | <br>Texas |
| **Self Priming Pump**<br>Asset ID: V2231<br>AMT | AMT centrifugal pump 429K-X8 self priming driven by 1 3/4 HP motor. Max flow 33 gpm at 42 ft TDH. Hazardous Duty Explosion Proof motor AMT 316 SS Transfer pumps are designed to handle liquids and chemicals with specific gravities to 1.6. The pumps are particularly well suited to applications involving perchloroethylene (PCE) and are recommended for use in hazardous liquids. These 1" pumps are fitted with FKM mechanical seal and O-ring. Self-priming to 6 feet. Type 6 seal. | <br>Texas |
| **Self Priming Pump 3"**<br>Asset ID: V2225<br>AMT | AMT self priming cast iron centrifugal pump Model 2876-96. Pump 3 1/4 x 3 1/4 AMT pump with 7.5 HP motor. Lot 114. See pump curve - approx 250 gpm at 60 ft TDH | <br>Texas |

## Pump/Hydraulic — 1 Items

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| **Hydraulic Power Pack w/ Enclosure**<br>Asset ID: 8851 | **Hydraulic Power Pack with Enclosure, 100HP**<br>Hydraulic pump 100HP motor, max working pressure 250 psig at 250F. Power pack was idled in 2022. | Used - Very Good<br>Alberta Canada |

## Pump/Magnetic Coupled — 1 Items

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| **Non-Seal Pump**<br>Asset ID: 2031<br>Nikkiso | Nikkiso non-seal pump (sealless). This pump is new unused. still in original crate. Also called canned-motor pumps. Leak free pump best suited for use with chemical industry for metering critical chemicals/fluids. Nikkiso Non-Seal Pump Model HX22C-5 Item No 3027-1200-7, Designed for 30 gpm at 129.7 Ft TDH. Output 4.96 HP 460v 3/60 3600 RPM. Ready to load | New, Old Stock<br>Illinois |

## Pump/Metering — 1 Items

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| **Metering Peristaltic Pump**<br>Asset ID: V2230<br>Flex-Pro | Flex Pro peristaltic metering pump A2F series. Max feed 14.3 GPH and 50 psi, 3/8 inch OD tubing 115v. Serial # 000908938-180716 | <br>Texas |

## Pump/MultiStage — 1 Items

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| **Vertical Multistage Pumps and MCC**<br>Asset ID: PK-2097<br>Simflo | Simflo Vertical 7-stage Multistage pump. Motor is 300 HP, 3565 rpm 460v 3/60 inverter duty. Model SD10C. (New model cross references to SP10L - same pump). Pump designed for 600 gpm at 1245 ft TDH. Includes MCC with VFD drives and the portable building the MCC is in.<br><br>• You are only purchasing two pumps with motors (no piping or anything in background of the pictures). Purchase DOES include complete MCC building w/ VFD's and MCC. Will be an oversized load. Price is for the LOT.<br><br>Package Includes:<br><br>• Two (2) Simflo (Simmons) Vertical pumps<br>Model SD10C (SP10L is new model # but same pump)<br>7-Stage, 600 gpm at 1245 ft/head, 300 HP<br>Bowl dia 10.19", BEP head 158 ft per stage<br>• MCC Portable Building<br>• MCC 4000A Cutler-Hammer Advantage Series 2100<br>480 V 3 Phase 3-wire 60 Hz<br>3200 A Sect.1-2 800 amp Sect.3-5 1200 amp<br>w/ 4000 amp Main and Breakers for each VFD/pump and includes spare breaker<br>• Starters installed in MCC<br>(2) Allen-Bradley VFD's - CAT # 1336E-BP350-AN-CM-EN<br>AC Input: 300-378 KVA 380-480 V 455 amps 50/60 Hz 3 Phase<br>AC Output: 366 KVA 0-460 V 459.2 amps 0-400 Hz 3 Phase<br>• Allen Bradley PanelView 1000 plc controls<br><br>This pump package is used. It was in good working order when idled and removed in late 2023. Units are removed and ready to load. | Used - Very Good<br>Marissa, IL |

## Pump/Peristaltic — 2 Items

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| **Peristaltic Pump**<br>Asset ID: AF15<br>Verder | Verderflex peristaltic pump by Verder. Model VF65 FCNBSS/S, serial 43260B6. Driven by gearmotor SEW 7.5 KW (10HP) at 1775 rpm inverter duty. Material cast iron body/cast iron rotor. Physical size 46.7mm x 32.3mm x 1000mm tall. Pumps at 1.5 gallons/rev. Flow capacity controlled by VFD and ranges from approx. 60 gpm at 75 psig to 90 gpm at 10 psig. See pump curves in Link. Maximum solids content 16.25mm compressible. Maximum lift is 9.5 mWc (meters water column) | Used - Excellent<br>Illinois |

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| **Peristaltic Pump**<br>Asset ID: AF16<br>Verderflex | PC-31 Slurry Stock. Verderflex peristaltic pump by Verder. Model VF65, serial 43260E6. Driven by gearmotor Baldor 10Hp at 1760 rpm inverter duty. Gearbox ratio 38.4:1. Material cast iron body/cast iron rotor. Size 46.7mm x 32.3mm x 1000mm tall. Pumps at 1.5 gallons/rev. Flow capacity controlled by VDF and ranges from approx. 60 gpm at 75 psig to 90 gpm at 10 psig. See pump curves in Link. Maximum solids content 16.25mm compressible. Maximum lift is 9.5 mWc (meters water column) | Used - Excellent<br>Illinois |

## Pump/Positive Displacement — 3 Items

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| **Positive Displacement Pump**<br>Asset ID: 7139I<br>Viking | Bare pump - Viking Pump Model LQ4124R, Serial No. 1702284, Size is 2.5" inlet x 2.5" outlet, cast iron body with mechanical seal. Includes integral relief valve in head, Has gear unit. Nominal flow of 135 gpm,. Approx 125 gpm. Designed to be driven by 10HP motor but motor is not included (photo shows motor but it is not there). . Used - will need reconditioning | Used - Fair<br>Grant City, MO |
| **Positive Displacement Pump 3x3**<br>Asset ID: 7139A<br>Viking | Viking positive displacement pump. Model LL4124A, ser no. 11297045 . Size 3 x 3, LL4124A - pump is rated up to 140 gpm. Includes pump, gearbox ratio 3.705 (IN 1750 / OUT 472 rpm), baseplate - no motor (was sized for 30HP motor at 1750 rpm missing). Used - will need reconditioning; it has sat idle for quite a while. Price includes loading on your truck. | Used - Fair<br>Grant City, MO |
| **Sanitary PD Pump (Cherry Burrell)**<br>Asset ID: V3011<br>Waukesha | **Waukesha Cherry Burrell Sanitary Pump - stainless ss316**<br><br>The Waukesha Cherry-Burrell Universal 1 Series 040-U1 is a sanitary, rotary positive displacement pump designed for food, dairy, beverage, pharmaceutical, and chemical applications<br>**Key Specifications**<br>• Displacement per Revolution: 0.076 gal (0.288 L)<br>• Nominal Capacity: Up to 45 GPM (10.2 m³/hr)<br>• Maximum Pressure: 150 PSI (10.3 bar) for standard configurations (up to 200 PSI depending on build)<br>• Temperature Range: -40°F to 300°F (-40°C to 149°C)<br>• Rotors: Non-galling Waukesha Alloy 88 circumferential piston (ECP) style rotors<br>• Construction Materials: 316L stainless steel body, cover, and shaft; FDA-compliant elastomers | Unrated<br>Jacksonville, IL |

## Pump/Progressive Cavity — 1 Items

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| **Progressive Cavity Pump**<br>Asset ID: 8848<br>Continental | Continental progressive cavity pump. 10 hp belt drive 4” 150 # flanges. Model: 3CL8-CDF - CL9573. RPM: 1750, 230 Volt .idled- 2022 The Continental Pump 3CL8-CDF is a 3-stage progressing cavity pump from the CL8 series. It features a cast iron housing, carbon steel internals, a chrome-plated alloy steel rotor, and Viton elastomers with a packed seal. It handles pressures from 0 to 225 PSI and flow rates between 18 and 100 GPM | Used - Very Good<br>Alberta Canada |

## Pump/Shear Pump — 1 Items

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| **High Shear Mixer Centrifugal Pump**<br>Asset ID: V4016<br>Admix | **High Shear Mixer Centrifugal Pump - Sanitary 3-A, stainless steel 316**<br><br>Admix stainless steel high shear mixer centrifugal pump with portable stainless steel cart on wheels and VFD. Has electrical cord with 460v plug. Serial # 81273-1.<br>The Admix Dynashear DS-215 is a lab-scale, inline sanitary high-shear mixer and emulsifier designed for product development, simulation, and scale-up to full production.<br>Key Specifications & Features<br>• Design & Compliance: Dual-stage tandem head (primary axial stage and secondary radial stage) compliant with 3-A sanitary standards.<br>• Flow Rate: Up to 22 GPM (gallons per minute).<br>• Motor Size & Speed: 2 HP motor operating at 6,900 RPM (equipped with a standard Variable Frequency Drive / VFD for scalability).<br>• Connections: 1.5-inch inlet and 1-inch outlet sanitary fittings | Used - Good<br><br>Jacksinville, IL |

| Pump/Sump | | 1 Items |
|---|---|---|
| **Sump Pump**<br>Asset ID: 1945<br>Pumpworks | Vertical sump pump by Pumpworks model 820. New - stored in warehouse as spare. Size 1.5 x 1 -8 with 8" impeller. Material carbon steel, heavy duty configuration. Rated capacity 25 gpm at 58 ft TDH. Pump serial number 18-23305-8-1. Motor is Baldor 2 HP 1755 rpm 230/460v 3/60 TEFC Frame 145TC | NEW<br><br>Indiana |

| Pump/Turbine Pump | | 1 Items |
|---|---|---|
| **Vertical Turbine Pump**<br>Asset ID: P-4300D<br>Johnston | Vertical turbine cooling tower pump. 3 stage design. Bowls are 14" dia, 10" pipe, 114" OAL. With 150 HP US Electric Motor. 460V, 167A, 60Hz, 1785 RPM. Built 2003 | Used - Good<br><br>Grant City, MO |

| Pump/Vacuum Pump | | 2 Items |
|---|---|---|
| **Vacuum Ejector Pump**<br>Asset ID: S3210<br>PIAB | PIAB air driven vacuum ejector. Model M125D, series 21.01.010. Vacuum gauge can be placed on either side. Cross references to PIAB model M50B5-EN . Very little use, in original box | Used - Excellent<br><br>Rome, GAJacksonville, IL |
| **Vacuum Pump**<br>Asset ID: 8845<br>Busch | Vacuum Pump - Busch NZ 0100 rated at 76.5 acfm, Ultimate Pressure: <0.0075 TORR<br>SN: OSYS – 003849 -2021. Driven by 5HP motor 3485 RPM 575v 3/60 5 HP Gas Inlet: ANSI 150. Ran for a very short time - nearly new. | Used - Excellent<br><br>Alberta Canada |

| Silo | | 4 Items |
|---|---|---|
| **Meal Storage Bin 200 ton**<br>Asset ID: P334 | Meal storage hopper with 3 bin discharges. Discharges have bottom live screw chutes for truck loading, with 60 degree cone. 200 ton | <br><br>New York |

| | | |
|---|---|---|
| **Meal Storage Silos 4,000 bu**<br>Asset ID: P333<br>Micada | Micada silos used for meal storage. Galvanized, cone bottom, on stand. 4000 bu capacity each. Size is 15 ft dia x 20' shell with 12 ft cone. On stand 16' x 14' x 185" tall. Quantity (2) - priced separately | New York |
| **Silo 365 bu**<br>Asset ID: S3<br>Brock | Brock silo - galvanized. Size 6' dia x 16' shell, on frame 12'-6" off ground. Steep angle cone bottom. Approx capacity 365 bu (453 cu ft or 3385 gallons). Qty(2) priced seoarately | New York |
| **Silo 4500 bu**<br>Asset ID: S1<br>Westeel | Westeel galvanized silo on stand. Size approx 14' dia x 36.6 ft tall, on frame 14' off ground for capacity of 4500 bu (5644 cu ft or 42,200 gallons). Cone discharge with slide gate. Bolted silo. Qty (2) sold separately | New York |

## Spare Parts — 3 Items

| | | |
|---|---|---|
| **Misc Spares 1**<br>Asset ID: V2226 | Rack 1, shelves 1&2<br>• (5) AVCO valve and valve actuators - AV Automatic Valve model D2003ACWR-1<br>• 4 Endress Hauser flow transmitters<br>• 2 red metering pumps<br>• 3 blue items<br>• Iwaki Stroke rate and length initiator<br>• Truflo flow meter and transmitter, model TKM<br>• Grundfos pump Pmax 24 watts, 2.0 gph at 230 psi<br>• paddle wheel flowmeter | Used - Excellent<br>Texas |
| **Misc spares 2**<br>Asset ID: V2227 | Rack 1, shelves 3&4<br>• Metering pump. Pulsatron by Pulsafeeder item LPH7MA-KTC3-XXX, built 2029, seria 976369. Capacity 240 GPD at 35 psi. 115v single phase<br>• Close coupled pump, self riming. TDRfoce Model FL-540. Capacity 35 LMP. Power 115v<br>• Chemical pump, new. Blue housing, stainless steel<br>• FlexPro peristaltic pump. A2F series<br>• Edwards high vacuum pump, model E2M2, serial 58701<br>• AMT centrifugal pump and motor Model 429K-X8<br>• AMT self priming cast iron pump and motor<br>• Little Giant pump, close coupled. | Texas |
| **Misc Spares 3**<br>Asset ID: V2228 | Rack 2 - Sanitary piping fittings | Texas |

## Systems & Packages — 1 Items

| | | |
|---|---|---|
| **Railcar Dumper System**<br>Asset ID: 1070<br>Heyl & Patterson | Heyl & Patterson Rotary Railcar Dumper System Designed to handle 3000 TPH. Can purchase outright to relocate. Included - Dumper, 309 ft conveyor, 2 control rooms, building over the dumper, all electrical, dust suppression system. Details - Inclined conveyor capacity 3000 TPH, 72" wide x 309' long at 476 fpm. Roller spacing 1'-0" with 450 HP motor drive. Inclined 16 degrees, length 309'-10-1/4" pulley centers. Also a feeder conveyor 96" wide x 16 ft long at capacity 3000 TPH, Size/Belt Speed 96"/110 FPM- Variable Speed Roller Spacing 1'0" Max HP 125 motor 16'0" Pulley Centers. Hoppers: Dims and Angles 24' W x 47' L x 35' Ht, 74.8 Min Slope, 70 degree Angles Lining 1/2" Tivar 88 Steel Thickness 3/8". Conveyor is all galvanized, aluminum conduit, walkway on one side, Paramax 9000 gearbox. Railcar Dumper is equipped with ventilation fans, dust suppression system, 5 ton hoist, Hazleton sump pump model 75-350 SHW, Cutler Hammer MCC rated at 2500A horizontal bus 480v 3/60. . Not Included: rotary stacker conveyor shown at end of run. Installed 2010 and idled in 2012 - used approx 2 years.. See videos in Link. The video showing operation is not this one but is typical. | Unrated<br>Marissa, IL |

| Systems & Packages/Distillation | | 1 Items |
|---|---|---|
| **Brine Distillation System**<br>Asset ID: 1725<br>RCC GE | GE brine crystallizer system for zero liquid discharge. Was originally RCC system built in 2006. Decommissioned in 2011. Complete system consisting of deaerator, crystallizer (approx 96 inches OD x 28 ft tall), rinse and waste tanks, APV plate heat exchanger, 5 Goulds pumps. Still installed. See our VDR (Virtual Data Room) on request for drawings, P&ID and Process Flow Diagrams including mass balance, drawings of major pieces of equipment. Price quoted incudes contractor removal and loading estimate and is subject to change. | Used - Good<br>MN |

| Tanks & Pressure Vessels/Bullet | | 2 Items |
|---|---|---|
| **CO2 Tank - Bullet 200 ton**<br>Asset ID: 1023<br>Trinity Industries | **CO2 tank - bullet. Insulated. Capacity 200 ton**<br>Still installed, built 1985 Idled 2021. Excellent condition, owned by a major industrial company<br>Serial number 115777. CRN number F-4681.3, ASME Nat'l Bd # 333. MAWP 275 psig at 125F<br>Nominal size 10'-10" dia x 61 ft long. Capacity 47,000 water gallons<br>Price includes removal and loading on your truck | Used - Excellent<br>Quebec, Canada |
| **CO2 Tank - Bullet 300 ton**<br>Asset ID: 1024<br>Drummond Welding & Steel | **CO2 tank - bullet. Insulated. Capacity 300 ton**<br>Still installed, built 1997, Idled 2021. Excellent condition, owned by a major industrial company<br>Serial No. 6125, CRN D1931.6 - Built and certified to ASME pressure vessel specifications Section VIII, Div 1 (no Nat'l Bd number). see U-1 form. MAWP 276 psig at 125F<br>Nominal size 10'-10" ID x 91'-3" long. Volume 543,000 pounds water weight = 65,342 gallons<br>Price includes removal and loading on your truck | Used - Excellent<br>Quebec, Canada |

| Tanks & Pressure Vessels/Carbon Steel | | 25 Items |
|---|---|---|
| **BDT PSV Drain Tank**<br>Asset ID: BDT2007 | PSV Drain Tank, 300 gallon capacity | <br>Illinois |
| **Filtered FD Storage Tank**<br>Asset ID: T-114A<br>Squibb | Squibb Vertical tank 43600 gallon capacity, CS, 13 feet diameter x 44 feet H | <br>Illinois |
| **Filtered FD Storage Tank**<br>Asset ID: T-114B<br>Squibb | Squibb Vertical tank 43600 gallon capacity, CS, 13 feet diameter x 44 feet H | <br>Illinois |

# S4M Asset Catalog

Listed in Category Order. Click on an Asset Name for more details.

| | | |
|---|---|---|
| **Horizontal CS Tank (3)**<br>Asset ID: T18 | Horizontal carbon steel tank, on saddles. Size approx. 12 ft dia x 35 ft long - capacity 30,000 gallons. On 3 saddles 130" x 12". No jackets or coils. Used as tanks T18, T3, ans T4. Qty (3) Priced separately | Unrated<br>Morristown, IN |
| **Methanol Storage Tank**<br>Asset ID: T-304<br>Squibb Tank Co | Vertical cylindrical atmospheric welded steel storage tank 12 ft OD x 35 ft H 29600 gal nom-cap, CS | Illinois |
| **Slurry Mix Tank**<br>Asset ID: TK-40<br>Wehrhahn | Homogenizer. Slurry tank. Agitated vertical carbon steel tank on legs. Size 38" dia x 6 ft s/s with 21" legs. Capacity approx 340 gallons. Open top/dish bottom. Agitator is top entering and is 36 inches higher than tank top. OAH approx 10.75 ft. Agitator has two sets of 2-blade propellers at mid and at bottom. Motor 5HP. Can be used as liquid or powder slurry tank. | Used - Very Good<br>Illinois |
| **Slurry Mix Tank, Powder**<br>Asset ID: TK-22<br>Wehrhahn | Universal Mixer. Vertical Powder mixing vessel with 2HP top entering agitator and side door. Number 10-066-109, type 2619.000. Mfg 2014. Size 6 ft dia x 7 ft tall seam to seam, approx 1500 gallons. Flat top, dish bottom. Top entering agitator with one set of 4-blades at bottom. Agitator gear box has cooler heat exchanger on oil, recirculated. Side lug mounts. Gasketed door on side. Mfg by Wehrhahn | Used - Very Good<br>Illinois |
| **Slurry Tank, Powder**<br>Asset ID: TK-10<br>Wehrhahn | Slurry tank used for powder. Vertical carbon steel tank with top entering agitator. Size 60" dia x 108" s/s with 28" legs. Capacity is approx 1300 gallons. Agitator is 36" higher than tank. OAH = 108+28+36. Flat top with half tank hinged cover, dish bottom. Includes radiator for hydraulic line cooling of gear reducer. Agitator gearmotor is SEW RM107/A 01/715687601.0001.14. rpm 1782 in/362 out. Has Endress Hauser level transmitter. Agitator has one set of 4-blades at bottom. Was used as cellulose dispensing tank, can be used as slurry tank. Has 4" flanged outlet. Tank has side opening door. Last used as cellulose dispenser | Used - Very Good<br>Illinois |
| **Storage Tank**<br>Asset ID: T-921A<br>Squibb | Vertical cylindrical atmospheric welded steel storage tank 13 ft OD x 44 ft H 43600 gal nom-cap, fabricated of 1/2 inch mild CS plate, Last used as Glycerin Storage Tank | Illinois |
| **Storage Tank**<br>Asset ID: T-921B<br>Squibb | Vertical cylindrical atmospheric welded steel storage tank 13 ft OD x 44 ft H 43600 gal nom-cap, fabricated of 1/2 inch mild CS plate, Last used as Glycerin Storage Tank | Illinois |
| **Thermal Fluid Drain Tank**<br>Asset ID: BDT-2006 | Vertical cylindrical tank. 8000 gallons, 8 ft dia x 21 ft 4 inches. Last used for Hot oil Thermal Fluid Drain Tank | Illinois |
| **Vertical Cylindrical Tank**<br>Asset ID: TK-01<br>Squibb Tank Co | Vertical cylindrical atmospheric welded steel storage tank 13 ft OD x 44 ft H 43600 gal nom-cap, fabricated of 1/2 inch mild CS plate S/N 14129 | Illinois |
| **Vertical Cylindrical Tank**<br>Asset ID: TK-02<br>Squibb Tank Co | Vertical cylindrical atmospheric welded steel storage tank 13 ft OD x 44 ft H 43600 gal nom-cap, fabricated of 1/2 inch mild CS plate S/N 14134 | Illinois |
| **Vertical Cylindrical Tank**<br>Asset ID: T-202<br>Fenix | Fenix Vertical Cylindrical Tank 390295.01.09C Rev 00, Shell design pressure 14.9 @ 150F, 1600 gallons, 6 ft dia x 8 ft, SS | Illinois |
| **Vertical Cylindrical Tank**<br>Asset ID: TK-04<br>Squibb Tank Co | Vertical cylindrical atmospheric welded steel storage tank 13 ft OD x 44 ft H 43600 gal nom-cap, fabricated of 1/2 inch mild CS plate S/N 14128 | Illinois |

| | | |
|---|---|---|
| **Vertical Cylindrical Tank**<br>Asset ID: TK-05<br>Squibb Tank Co | Vertical cylindrical atmospheric welded steel storage tank 13 ft OD x 44 ft H 43600 gal nom-cap, fabricated of 1/2 inch mild CS plate S/N 14130 | <br>Illinois |
| **Vertical Cylindrical Tank**<br>Asset ID: T-101A<br>Squibb Tanks | CS Storage Tank, 43,600 gallons,approx 14' dia x 44'H. Last used as FD Storage Tank | <br>Illinois |
| **Vertical Cylindrical Tank**<br>Asset ID: TK06<br>Squibb Tank Co | Vertical cylindrical atmospheric welded steel storage tank 13 ft OD x 44 ft H 43600 gal nom-cap, fabricated of 1/2 inch mild CS plate S/N 14135 | <br>Illinois |
| **Vertical Cylindrical Tank**<br>Asset ID: TK07<br>Squibb Tank Co | Vertical cylindrical atmospheric welded steel storage tank 13 ft OD x 44 ft H 43,600 gal nom-cap, fabricated of 1/2 inch mild CS plate S/N 14131 | <br>Illinois |
| **Vertical Tank 43,600 gallons**<br>Asset ID: T-101B<br>Squibb Tanks | CS Storage Tank, 43,600 gallons, approx 14' dia x 44'H. Last used as FD Storage Tank | <br>Illinois |
| **Vertical Tank 43,600 gallons**<br>Asset ID: TK-03<br>Squibb Tank Co | Vertical cylindrical atmospheric welded steel storage tank. Suze 13 ft OD x 44 ft H with 43,600 galon nominal capacity, Material of construction 1/2 inch mild CS plate | Unrated<br>Illinois |
| **Vessel**<br>Asset ID: T-1007<br>McMaster | McMaster Carr Tank, 550 gallon capacity, 4 ft dia x 6 ft Horizontal Tank last used as Vent Header Collection Tank | <br>Illinois |
| **Vessel**<br>Asset ID: V-511<br>McMaster | McMaster Vessel 300 gallon capacity 38 inch diameter x 60 inches Long and 48 inches high, 12 gauge wall thickness, 37415K71 | <br>Illinois |
| **Vessel**<br>Asset ID: V-513<br>McMaster | McMaster Vessel 550 gallon capacity 38 inch diameter x 72 inches Long and 51 inches high, 12 gauge wall thickness, 37415K72 | <br>Illinois |
| **Vessel Cone Bottom**<br>Asset ID: V-108<br>Fenix | Cone-bottom Vessel 250 gallon capacity, 5 feet x 2 feet, CS | <br>Illinois |

**Tanks & Pressure Vessels/Fiberglass** **2 Items**

| | | |
|---|---|---|
| **Fiberglass Tank 1000 gallon**<br>Asset ID: V2245<br>LFM | Vertical fiberglass tank on legs, cone bottom. Capacity 1000 gallons. Approx. size 5 ft dia x 6 ft- 3 in tall s/s on 40" legs. | <br>Texas |
| **Fiberglass Tank 5000 gallon**<br>Asset ID: V2261<br>LFM | Fiberglass tank 5000 gallon. Approx size 8 ft dia x 13'-4" tall on legs. On Hardy load cells model HI RCH04-33K rated at 33,000 pounds each. Tk number T-005 | <br>Texas |

| Tanks & Pressure Vessels/Poly Tank | | 3 Items |
|---|---|---|
| **Poly Tank Insulated 6100 gallons**<br>Asset ID: V2260 | Insulated poly tank. Size is 9 ft dia x 13 feet tall for approx 6100 gallons each. Atmospheric tanks. Qty (2) priced separately | Used - Excellent<br>Texas |
| **Poly Tank Vertical**<br>Asset ID: V2236 | Vertical poly tank approx size 2 ft dia x 58" tall. Flat bottom/top Capacity approx 100 gallons | <br>Texas |
| **Poly Tank Vertical**<br>Asset ID: V2248 | Vertical poly tank, capacity 1500 gallons. Flat bottom, rounded top. 3" outlet | <br>Texas |

| Tanks & Pressure Vessels/Pressure Vessel | | 10 Items |
|---|---|---|
| **Air Receiver**<br>Asset ID: BD1202 | Dry air tank, 400 gallons, C/S | <br>Illinois |
| **Air Receiver Pressure Tank 200 Gallons**<br>Asset ID: AF1<br>Manchester | Air receiver by Manchester Tank. Vertical on base. Size 28" dia x 55: s/s on base for 78" OAH. Capacity 200 gallons. ASME Nat'l Bd # 270535 MAWP 300 psi at 400F. Also CRN certified. | Used - Very Good<br>Illinois |
| **Expansion Tank**<br>Asset ID: T-1000<br>Wendland | Expansion Tank S/N 39367, Wendland Mfg, 100 psi @ 700F MAWP, -20F @ 100 psi MDMT, 3500 gallons | <br>Illinois |
| **Flash Tank Drum**<br>Asset ID: 31-V-156<br>PPV Precision Pipe & Vessel | Steam Flash Drum to atmospheric. Manufactured by Precision Pipe & Vessel in 2009. ASME rated MAWP 150/FV T 250F. Material carbon steel. Note: This flash drum is stacked on top of 31-V-164. Part of Absorber & cleanup module FP311 | Used - Very Good<br>Soperton, GA |

| | | |
|---|---|---|
| **Horizontal Decanting Vessel**<br>Asset ID: V-1506<br>Confab | Horizontal carbon steel pressure vessel. Decanter and Liquid Knock Out. Built by Confab s/n 64866. ASME Nat'l Bd# 28, rated at 184 psig at 350F (1269 kpa at 177C). Approx size 6.5 ft dia x 18 ft long T/T for 4,468 gallon capacity. Weight: Approx. 12000-15000 lbs. Last used as Decanter in ethanol plant - see schematic link. Insulation has been removed. Tank has been removed and is ready for loading. - price includes loading | Good<br>Grant City, MO |
| **Receiver Pressure Tank 1600 gallons**<br>Asset ID: T-702<br>Fenix | Fenix tank, 1620 gallon capacity, 5.25 ft dia x 10 feet H, 390296.03.09 Rev 00. MAWP Shell 323 psi @ 482F. Last used as Biodiesel Reflux Tank | <br>Illinois |
| **Steam Blowdown Drum**<br>Asset ID: 41-V-630<br>PPV Precision Pipe & Vessel | Steam drum manufactured by Precision Pipe & Vessel in 2009. ASME MAWP 150 psig/FV at 550F, Nat'l Bd# 893, s/n CV-0893. Material is SA312-TP347. Physical size is 24"dia x 8'-6" s/s, OAH 11'-10" for capacity of 185 gallons. Used as a steam blowdown drum | Used - Very Good<br>Soperton, GA |
| **Steam Drum**<br>Asset ID: 41-V-180<br>Nebraska Boiler | Steam drum by Nebraska Boiler, built 2009. Horizontal, ASME Nat'l Bd# 877, MAWP 800 psig/FV at 350F, Stainless steel SA-312-304. Physical size 42" dia x 120" s/s x 0.5" shell (11'-3" OAL) for 107cf or 720 gallons. Used as Catalytic Converter steam drum. Part of Catalytic Converter module FP411 | Used - Very Good<br>Soperton, GA |
| **Vertical Flash Vessel**<br>Asset ID: F-106<br>Fenix | Vertical Flash Vesel by Fenix, 48.4 inch diameter x 156.7 inches, Stainless Steel 304Last used as FD Dryer Flash Vessel | <br>Illinois |
| **Vertical Flash Vessel**<br>Asset ID: F-504<br>Fenix | Fenix Vertical Flash vessel 390295.02.21C Rev 02, Shell design pressure 14.9 @ 400F, 950 gallons, 4 ft dia x 16.83 Ft, SS | <br>Illinois |

## Tanks & Pressure Vessels/Separator — 2 Items

| | | |
|---|---|---|
| **Hydrasep Oil Water Separator**<br>Asset ID: 2448<br>Hydrasep | Hydrasep Oil/Water Separator. Horizontal<br>Hydrasep HS-1500-BD. Biodiesel laminar flow separators. The patented Hydrasep laminar flow separator is designed to continuously separate glycerin from methyl ester and<br>wash water from methyl ester without any moving parts or coalescing media, eliminating the need for power consumption and periodic overhaul. Carbon steel construction, horizontal 48" dia x 18' OAL, On saddles and steel frame so OAH is approx 6 ft. Designed for 48 gpm flow rate. Inlet/Outlet 4". Volume 1,742 gallons, Operating volume 1,213 gallons, empty weight 4,670 pounds. Built 2008. Serial number 5000357. Removed and ready to load. | Used - Good<br>Rome, GA |
| **Hydrasep Oil Water Separator**<br>Asset ID: 2449<br>Hydrasep | Hydrasep Oil/Water Separator. Model HS-2000-BD.<br>Biodiesel laminar flow separators. The patented Hydrasep® laminar flow separator is designed to continuously separate glycerin from methyl ester and wash water from methyl ester without any moving parts or coalescing media, eliminating the need for power consumption and periodic overhaul. Carbon steel construction, horizontal 54" dia x 20'-1" OAL, On steel frame. Designed for 69 gpm flow rate. Inlet/Outlet 4". Operating volume 1,752 gallons, empty weight 5,861 pounds. Serial # 5000361. Removed and ready to load. | Used - Good<br>Rome, GA |

## Tanks & Pressure Vessels/Stainless — 32 Items

# S4M Asset Catalog

Listed in Category Order. Click on an Asset Name for more details.

| | | |
|---|---|---|
| **Decanter, Horizontal 4200 gallons**<br>Asset ID: V-313<br>Fenix | Fenix Horizontal Decanter Vessel SN 390295.05.20C Rev.00 Shell Design pressure 14.9 psig, Design temp 200F, Test pressure 19.37 psig, Built 2014. 4200 gallons. 7.88 feet x 11.9 feet | Illinois |
| **Decanter, Horizontal 4200 gallons**<br>Asset ID: V-411<br>Fenix | Fenix Horizontal Decanter Vessel SN 390295.08.15C Rev.00 Shell Design pressure 14.9 psig, Design temp 200F, Test pressure 19.37 psig, 4200 gallons. 7.88 feet x 11.9 feet | Illinois |
| **Flash Tank 470 gallons**<br>Asset ID: V-506<br>Fenix | Fenix Vessel, 470 gallons capacity, 4 ft dia. x 90 inch OAH, 3/16 inch thick | Illinois |
| **Mix Tank ss 1200 gallons**<br>Asset ID: 2863<br>Walker | WALKER 1,200 GALLON STAINLESS STEEL VERTICAL MIX TANK, TOP ENTERING AGITATOR<br>Dish bottom, open top with 3" NPT Outlet, Material stainless steel 304 with painted bridge for agitator. Stainless steel auger-style agitator with steady bearing and 5 HP gearmotor, and an internal perforated screen. Stainless steel legs with pad feet. Overall dimensions 84" dia x 122" tall. There are ten (10) tanks available immediately, priced separately.<br>We can recondition these tanks to add a paddle type vertical top entering agotator and enclose top with ss hunged cover. Allow 12 weeks and additional cost | Used - Good<br>TN |
| **Mixing Tank, 600 gallons**<br>Asset ID: 2112<br>Vendome Copper & Brass Works | Mixer with screw ejection through bottom port. This unit is fully operation and has few hours on it. Excellent shape<br>• ***Mixing Tank:*** Capacity 600 gallon Stainless Steel Extraction Mixing Tank. Material 304 stainless steel. . Manufactured by Vendome Copper & Brass. Tank dimensions: Overall total height: 124", Height of outlet: 50", Outlet size: 10.5" , Top Diameter: 64". Tank has ejection through bottom port and is fully functional.<br>• ***Mixer and Ejector Screw:*** Stainless steel 304 mixing auger for bottom port ejection. Has 1 HP gearmotor for screw output of 3.15 rpm. | Used - Excellent<br>Kentucky |
| **Process Tank ss**<br>Asset ID: V2259<br>A&B Process Systems | A&B Process Systems stainless steel tank, capacity 500 gallons. ASME MAWP 5 psi at 250F. Approx size 50" dia x 52" straight side with dish bottom/top. Legs 3 ft... Quantity (2) - priced separately | Used - Excellent<br>Texas |
| **Square Tank, ss 8500 gallons**<br>Asset ID: 2048 | Square stainless steel tank,reinforced sides. Size is 111" x 111" x 160" high - on legs for OAH 220". Atmospheric tank. Capacity approx 8500 gallons. Material ss304. Flat top, bottom has a slight taper to the center. Used for pure ethanol storage food grade. Part of an entire CBD extraction system - enter PK6020 to see all components. | Used - Very Good<br>Northern US |
| **Vertical Cone Bottom Tank 2800 gallons**<br>Asset ID: V-213<br>Fenix | Fenix Hydrolysis Decanter Vessel SN 390295.06.12C Rev.00, 2800 gallon capacity, 8.25 ft x 7 ft H, Shell Design pressure 14.9 psig, Design temp 200F, Test pressure 19.37 psig | Illinois |
| **Vertical ss Tank**<br>Asset ID: V2241 | Vertical stainless steel tank on legs. Flat top/slight cone bottom. Size approx 4 ft dia x 8 ft tall on 15" legs. Approx capacity 750 gallons | Texas |

# S4M Asset Catalog

Listed in Category Order. Click on an Asset Name for more details.

| | | |
|---|---|---|
| **Vertical ss Tank**<br>Asset ID: V2271 | Vertical stainless steel tank on legs. Approx size 20 inch dia x 40 inch s/s on 1 ft legs for approx 50 gallon capacity | Unrated<br>Texas |
| **Vertical ss tank**<br>Asset ID: V2246 | Vertical stainless steel tank, insulated, on legs. Approx size 30" dia x 55" tall s/s on 30" legs. Capacity about 150 gallons. Qty (2) - priced separately. | <br>Texas |
| **Vertical Tank 1600 gallons**<br>Asset ID: T-306<br>Fenix | Day Tank 6 ft x 8 ft S/S, 1600 gal, Shell 14.8 psi, Dish top-dish bottom, on legs. Design temp 150F | <br>Illinois |
| **Vertical Tank 1600 gallons**<br>Asset ID: T-401A<br>Fenix | Day Tank 6 ft x 8 ft S/S, 1600 gal, Dish top-dish bottom on legs. Shell 14.8 psi, Design temp 150F | <br>Illinois |
| **Vertical Tank 1600 gallons**<br>Asset ID: T-501<br>Fenix | Day Tank 6 ft x 8 ft S/S, 1600 gal, Dish top-dish bottom, on legs. Shell 14.8 psi, Design temp 150F | <br>Illinois |
| **Vertical Tank 1600 gallons**<br>Asset ID: T-206A<br>Fenix | Fenix Vertical Cylindrical Tank dish top-dish bottom. 390295.01.09C Rev 00, Shell design pressure 14.9 @ 150F, 1600 gallons, 6 ft dia x 8 ft, SS | <br>Illinois |
| **Vertical Tank 1600 gallons**<br>Asset ID: T-302<br>Fenix | Day Tank 6 ft x 8 ft S/S, 1600 gal, 6 ft x 8 ft S/S, Dish tip-dish bottom on legs. Shell 14.8 psi, Design temp 150F, S/N 390295.01.09C Rev 00 | <br>Illinois |
| **Vertical Tank 1850 gallons**<br>Asset ID: V-110<br>Fenix | Vertical tank dish top-dish bottom, on legs. Vessel with Elloip 2:1 Heads, 1850 gallon capacity, 6 ft x 8.75 feet, Shell 14.9 design pressure, 400F design temperature, SN 390295.03.14C Rev 00 | <br>Illinois |
| **Vertical Tank 215 gallons**<br>Asset ID: V-212<br>Fenix | Hydrolysis Relief Vessel by Fenix process technologies S/N 390295.08.15C Rev00, 215 gal, 3.5 ft x 3 ft. S/S, Shell 14.9 psi, Design temp 700F | <br>Illinois |
| **Vertical Tank 215 gallons**<br>Asset ID: V-312<br>Fenix | Fenix Process Technologies 390295.08.15C Rev 00, Stainless Steel Vessel, 215 gallon capacity, 3.5 ft O.D. x 3 ft H, 14.9 psig @ 700F | <br>Illinois |
| **Vertical Tank 215 gallons**<br>Asset ID: V-410<br>Fenix | Fenix Process Technologies Stainless Steel Vessel, 215 gallon capacity, 3.5 ft O.D. x 3 ft H | <br>Illinois |
| **Vertical Tank 30,000 gallons**<br>Asset ID: PTF201 | Vertical carbon steel tank, flat bottom, cone top. Capacity 30,000 gallons. Last held glycerin from biodiesel process | Used - Good<br>Moberly, MO |

# S4M Asset Catalog

Listed in Category Order. Click on an Asset Name for more details.

| | | |
|---|---|---|
| **Vertical Tank 40,000 gallons**<br>Asset ID: VT-1001 | Vertical carbon steel tank, flat bottom, cone top. Capacity 40,000 gallons. Size 14 ft dia x 35 ft tall.x about 40 ft OAH Insulated - fiberglass with aluminum sheathing. Three last held B100, two held edible oil, and one held glycerin. All include a Plenty side entering agitator model 20P-38-TMH7.5 with 7.5 HP motor, 1800 rpm 460/3/60. Note: The tank in SE corner still has about 10,000 pounds of sludge in it - rest are empty. Atmospheric tank with 3" vent at top. Insulated tank - fiberglass with aluminum sheathing. Has Side entering manhole 24", Agitator 4" flanged, Inlet and outlet 3" flanged each, Instruments: TT, TI, LSH, (LT on top). Total (6) tanks - priced separately | Used - Good<br>Moberly, MO |
| **Vertical Tank Jacketed ss**<br>Asset ID: E0501<br>Alloy & Steel Fabricators | Vertical stainless steel tank, jacketed. Working pressure tank 50 psig, shell (jacket) 80 psig. Serial no. 70. Size 5.5 ft dia x 11'-3" shell s/s for capacity of 2000 gallons. Slight cone bottom | <br>New York |
| **Vertical Tank ss**<br>Asset ID: V2237 | Vertical stainless steel tanks on legs. Approx size 30" dia x 33" s/s on 12" legs. Capacity approx 100 gallons. Quantity (2) - priced separately | <br>Texas |
| **Vertical Tank ss**<br>Asset ID: V2247 | Stainless steel vertical tanks, capacity 100 gallon. Formerly Lot 135. Quantity (2) priced separately | <br>Texas |
| **Vertical Tank, ss 145 gallons**<br>Asset ID: 2050 | Vertical stainless steel tank, insulated. Size 30.5" dia x 45" tall on legs for 76" OAH. Capacity 145 gallons. Pk6020 | Used - Good<br>Northern US |
| **Vertical Tank, ss 600 gallons**<br>Asset ID: 2062 | Stainless steel ss304 vertical tank. Size 52.5" dia x 70.5" tall. Flat top, slight cone bottom. Capacity 600 gallons. Has short legs 6". Pk6020 | Used - Very Good<br>Northern US |
| **Vertical Tank, ss cone bottom 580 gal**<br>Asset ID: 2061 | Stainless steel vertical tank - size 50" dia x 84" tall on legs for 117" OAH. Capavcity 580 gallons. Flat top, Cone bottom approx 45 degrees. On legs. Pk6020 | Used - Excellent<br>Northern US |
| **Vertical Tanks ss**<br>Asset ID: V2258 | Vertical stainless steel singe wall tanks on legs, slight cone bottom. Approx size 40" dia x 6 ft tall on 15" legs for capacity of about 400 gallons. Note that these tanks are the taller ones in the photos. Quantity (4) - priced separately | Used - Excellent<br>Texas |
| **Vertical Tanks ss 5500 gallons**<br>Asset ID: V2264<br>Precision Tank | Vertical stainless steel tank, flat bottom/top. NEW, Old Stock. Tank was tested with water for leakage but never put into service. Approx size 8 ft dia x 15 ft tall. Capacity about 5500 gallons. UL certification MH8350, serial 136575. T-007 | New, Old Stock<br>Texas |
| **Vertical Tanks ss NEW 400 gallons**<br>Asset ID: V2256 | Vertical stainless steel tanks on legs.New - old stock. Never used. Approx size 40" dia x 6 ft tall s/s on 15 inch legs. Capacity approx 400 gallons. Flat top, slight cone bottom. Qty (6), priced separately | New, Old Stock<br>Texas |
| **Vertical Tanks ss NEW 550 gallons**<br>Asset ID: V2257<br>Owin International | Vertical stainless steel tanks on legs, NEW. insulated with (2) electric heater bands. Approx size 48" dia x 92 inches tall s/s on 15" legs. Bottom slight cone. Capacity approx 550 gallons. Atmospheric tank. Insulation 1 3/4" thick. Has 2 bands on tank Trivolt electric heater band each band rated at 1000 watts and 120 volts. See drawings. Quantity (2) tanks - priced separately | Like New<br>Texas |

# S4M Asset Catalog

Listed in Category Order. Click on an Asset Name for more details.