S4M Asset Catalog

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

Asset Catalog for All Categories (634 Items)

Asset	Description	Condition / Location
Agitators		**2 Items**
Gearbox + Motor 10HP Asset ID: A-1400 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 Grant City, MO
Gearbox + Motor 15HP Asset ID: A-1306 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 Grant City, MO
Blower		**8 Items**
Blower Fan 1000HP Asset ID: B2106 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 Peoria, IL
Blower Fan 50HP Asset ID: AF93 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 Illinois
Blower Fan 60HP + ss stack Asset ID: cp102 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 Marissa, IL
Blower Kice 7.5HP Asset ID: B2075 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 Peoria, IL

Blower PD Fan (Roots Type) 25HP Asset ID: AF9 Sutorbilt	**Positive displacement blower (Roots Type)** • Gardner Denver Sutorbilt Legend Series vacuum pump Model GAFMCRD, serial S378101. Catalog No. 5MR. Gear dia 6" • Inlet/Outlet size 4" • Capacity 292 cfm at 7 psig to 263 cfm at 11 psig. • Driven by 25HP motor at 1770 rpm. 460/3/60. • In sound attenuating enclosure. Enclosure dimensions 45" x 45" x 48" tall. See brochure in links.	Used - Very Good Illinois
Turbo Fan Blower 1800HP Asset ID: B-1010 Howden Roots	**Howden High Heat Blower - Never Used** **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. • Design Pressure 272.4 psi and Temperature 446F • Inlet Volume 6738.99 ACFM • Main skid plus (1) nitrogen skid and (2) lube unit skids for fan and gear **Driven by Toshiba 1800HP induction motor** • Toshiba World Energy Series 3 phase induction motor, Serial # 140702955 • Model # 3VJM400LI6297I • 1800 HP 3540 rpm 4160v 60 Hz 3 phase 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. **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 Sparks, NV
Tuthill Blowers 20HP (3) Asset ID: 2032 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 Illinois
Upblast Fan Asset ID: 2457 Cook	Upblast Blower fan still in crate - New, Old Stock 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 South Dakota

Boiler — 2 Items

Hot Oil Boiler Asset ID: B-1000 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, 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
Thermal Fluid Asset ID: BD-1505 Xceltherm MK-1	Drums of Xceltherm MK-1 Heat Transfer Fluid - 55 gallon drums. Approximately 10,000 gallons in tank.	Illinois

Boiler/Biomass — 1 Items

Biomass Boiler 1500HP + 1MW GenSet Asset ID: 7258 Hurst	**BIOMASS BOILER. 1500 BHP 450 psig** • Hurst Biomass Boiler, 450 psig saturated. Model # HYB 9570-450-1, Capacity 1500HP (51,750 #/hr steam). Heating surface 9750 sq ft. • This is a HYBRID biomass boiler (part firetube & part watertube) designed so well by Hurst Boiler with reciprocating grate • Steam turbine GenSet 1MW - inlet superheated steam 450 psig • System only used for about 6 years, then idled. Built 2009 • Fuel was shredded carpet. • Natural gas burner used for startup combustion only, then shut off for operation 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. 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. 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 Southeast USA

Boiler/Deaerator — 2 Items

Deaerator Tank Asset ID: 2097 Advance Boiler & Tank Co	Tray Type Deaerator. Was used as part of a 210,900 Lb/Hr Cogeneration Boiler. • Horizontal deaerator with a vertical top with trays. Carbon steel SA516-70 • 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 • 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 • Top Heater Tray Evaporator part is 78" OD x 4'-6" length ASME MAWP 100 psig. Serial number 490-06. ASME 491-006 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 Northeast US

Feed Water System for 150 HP Boiler Asset ID: 8801 Atomspheric	**DEAERATOR & FEED WATER SYSTEM** 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 South Carolina

Boiler/Electric Boiler — 1 Items

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

Boiler/Firetube — 5 Items

Firetube Boiler 150 HP Asset ID: 7209 Cleaver Brooks	**Cleaver Brooks Packaged Firetube Boiler 150 HP** Cleaver Brooks Firetube boiler, model CB 700-150. Natural gas fired- maximum pressure of 150 psi. Input of 6,277,000 BTU / HR. 5HP blower motor 460v 3/60 and Control circuit is 120v 1/60. Boiler is in good condition and was taken out of service in September 2024. Internal inspection was completed in May 2024 and it has been hydro tested with no tube leaks. Prices includes loading onto your truck.	Used - Good Midwest US

Firetube Boiler 150HP Asset ID: 8800 Superior	**Reconditioned 150 HP Firetube Boiler** Superior Boiler 150 HP natural gas fired 150 psig • Boiler has been completely re-tubed. • The boiler has been cleaned on the fireside, waterside, and outside. New fireside and waterside gaskets have been installed. • The boiler pressure vessel, tubes, pressure piping, and blowdown piping and valves have been hydrostatically tested. • New relief valves will be installed or shipped loose for field installation. No steam outlet valves are included. • The existing Honeywell 7800L Flame Safeguard controls have been tested and proven good. • New High Limit with manual reset, Operating Limit, and Modulating Limit steam pressure controls have been tested and proven good. • The boiler has been wired for 460/3/60 main supply voltage. • Water level controls to turn the boiler feed water pumps “ON and OFF” to maintain water level control have been installed. **WARRANTY** Offered through our boiler reconditioner: The boiler has been electrically and mechanically checked throughout. Any components found to be defective or obsolete have been replaced. We guarantee that the pressure vessel is in good condition and the tubes are new, and that 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. **OPTIONS** Deaerator and feedwater system sized for a 150 HP boiler available - See Asset 8801 Blowdown Separator vessel deigned for the bottom blowdown rate of a 150 HP boiler is available - see asset 8802	Reconditioned South Carolina
Firetube Boiler 200HP Asset ID: 8096 Johnston	One (1) 1998 200 HP Johnston boiler, 4 pass wet back, gas and No. 2 oil fired, 250 PSI design pressure. 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. 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 Southeast
Firetube Boiler 300HP Asset ID: 7124 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. 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 Ft Worth, TX

Firetube Boiler Package 150 HP Asset ID: PK-8803 Superior	**Reconditioned 150 HP Firetube Boiler** Superior Boiler 150 HP natural gas fired 150 psig • Boiler has been completely re-tubed. • The boiler has been cleaned on the fireside, waterside, and outside. New fireside and waterside gaskets have been installed. • The boiler pressure vessel, tubes, pressure piping, and blowdown piping and valves have been hydrostatically tested. • New relief valves will be installed or shipped loose for field installation. No steam outlet valves are included. • The existing Honeywell 7800L Flame Safeguard controls have been tested and proven good. • New High Limit with manual reset, Operating Limit, and Modulating Limit steam pressure controls have been tested and proven good. • The boiler has been wired for 460/3/60 main supply voltage. • Water level controls to turn the boiler feed water pumps “ON and OFF” to maintain water level control have been installed. **FEED WATER SYSTEM** 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 **BLOWDOWN SEPARATOR** One (1) reconditioned Blowdown Separator designed for the bottom blowdown rate of the 150 HP boilers, built to ASME Code Standards with a National Board stamp. It will be inspected, cleaned, and painted to match the boiler. The blowdown separator will be mounted on support legs.	Reconditioned South Carolina

Boiler/High Pressure — 1 Items

High Pressure Boiler Asset ID: 2096 GTS Energy	**High Pressure Steam Generator - to 1,380 psig NEW** 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. ***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 See links for General Arrangement and P&ID's.	New, Old Stock Tennessee

Boiler/Hot Water — 1 Items

Hot Water Boiler 5 MMBTU Asset ID: M33 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. Includes 3 expansion tanks. Physical dimensions L x W x H 166" x 53" x 73".	Used - Very Good Van Wert, OH

Boiler/HRSG & Gasifiers — 4 Items

Gas Fired Steam Generator (HRSG)
Asset ID: 7644
Rentech

NEW
Texas

Rentech Duct Fired HRSG System (Heat Recovery Steam Generator)

Price Just Reduced

This is a ***brand new*** HRSG - never used. Model Waterfall Type "O"

- Rated at 200,000 pph at 400 psig saturated steam with economizer (can also run at 200 psig)
- Designed for feedwater flow 400 gpm at 439 psig and 228F
  INCUDES (also see pdf list in link)
- Natural gas duct burner system and fuel skid with gas train and flame supervision, rated at 136 MMBTU/h
- Steam Generator System (HRSG) Evaporator. "O" type tube arrangement with steam drum and mud drum, 2" tubes
- Bypass stack 50 ft x 76" diameter
- Exhaust stack 50 ft x 76" diameter
- Economizer - finned tube single pass
- Boiler Control System: BMS - plc controlled burner management system, CCS - combustion control system, HMI touch screen, Allen Bradley plc and HMI
- Interconnecting duct work
- Ladders & Gratings
  Rentech had pre-fit all structural steel in the shop. Once they were assembled, photos were taken, and pieces were disassembled for shipment.
  Rentech will 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.

System has been completed and is now stored in protected warehouse (never has been used)

Gasifier Biomass 250 TPD Asset ID: 1229 GMax	**Biomass Gasifier 250 TPD w/Zurn Biomass Boiler and Scrubber** Pressurized Linear Starved Air Low Temperature (LSALT) Gasifier. Quantity (2) - priced for BOTH **Gasifier** • Shallow fluidize bed technology • Tested on MSW, auto shredder residuals, wood chips, bark, wood chips and peper mill sludge • Commercial scale 250 TPD (90,000 pph) - readily scaled to 700 to 1000 TPD **Zurn HRSG** • Zurn HRSG 150,000 pph at 900 psig operating presure, bituminous coal feed • Superheater and Economizer • Physical size approx 73 ft tall x 24 ft wide x 22 ft deep	Unrated Georgia
HRSG Rentech Asset ID: 2146 Rentech	**Rentech Heat Recovery Steam Generator (HRSG)** **Low Hours** ASME MAWP: 200 psig at 500 F, Tubes 700 F Maximum Steaming Capacity: 31,500 lb/hr, Heating Surface: 24,471 sq. ft. Mfg. Serial No. 2015-43 Very Good Conditon. Only ran for 12-18 Months before being idled. Bought new in 2016. Ran for 12 Months then shut down when owner couldn't pay loan. New company purchased and ran in 2018 for 6 months.	Used - Very Good Texas
Waste to Energy Gasifier Steam Generator Asset ID: 1964 Primenergy LLC (PRME) & Siemens	**Waste to Energy Gasifier & Steam Generator** 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 Georgia

Boiler/Watertube — 7 Items

Watertube Boiler 103,500 #hr Asset ID: 8805 ABCO	**Watertube Boiler Low Nox** • Low Nox Burner Coen model 675 features fuel gas return (FGR). NOx emissions 30 to 60 ppm • Dual Fuel: natural gas and #2 fuel oil • Generates 103,500 lb/hr at 175 psig saturated steam max • Incudes Superheater rated at 90,000 PPH at 426°F • Deaerator and feedwater pumps • Economizer: horizontal fully drainable finned tube • Stack: 100 ft tall, base 64" ID with outlet 44" ID • Ladders and platforms, interconnection pipes, valves, safety relief valves ABCO 2 pass, D-type Watertube Boiler. EIN # 467310. The boiler is designed to generate a maximum total of 103,500 lbs./hr. of saturated steam at 175 psig, while the burner heat release rate is 132 MMBtu/hr. on HHV basis with natural gas firing (90,000 lbs./hr. of the total is superheated at 426° F). The design pressure of the boiler and superheater is 200 psig, while the design pressure of the economizer is 250 psig. The boiler is furnished with a boiler outlet transition, economizer, stack, ladders and platforms, trim, associated piping and valves. Coen model 675 Low Nox burner. Dual fuel (natural gas and # 2 fuel oil). FD fan Robinson blower with 60 HP motor. Serial no. 90110 **Boiler has very low hours of use**	Used - Very Good New York
Watertube Boiler 160,000 #hr Asset ID: 8079 Rentech	**Watertube Boiler Low Nox** Superheat Steam Boiler 160,000 lbs/hr at 400 psig at 700F, manufactured by Rentech in 2015. Boiler includes: • John Zink Low Nox burner with FD fan • Fueled by natural gas • Economizer, stacks & silencer • Stack • Includes boiler trim, valves,catwalks, ladders and associated piping Qty (2) Two boilers available (priced separately)	Used - Very Good Virginia
Watertube Boiler 200,000 #/hr Asset ID: 1360 Indeck	**Indeck Watertube Boiler w/ Economizer 200,000 lb/hr at 165 psig** • Dual Fuel: Natural Gas at 237 MMBTU/hr or #2 fuel oil • LoNOx Natcom burner: P-237-HL0G-39-2229 Hyper Mix • Economizer • Grade mounted FD fan **Still installed, Currently in Operation**	Used - Good Illinois

Watertube Boiler 205,000 #/hr Asset ID: 1359 Victory	**Victory Watertube Boiler w/ Economizer rated at 205,000 lb/hr at 250 psig** • "O" Type design • Natural gas fired includes gas train • Economizer • Controls • Combustion blower is a NY Blower with 400 HP motor Serial Number 41B. Boiler is currently in operation running at 190,000 #/hr at 150 psig 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. **Still installed, Idled in March 2025**	Used - Good Illinois
Watertube Boiler 205,000 #/hr Asset ID: 1358 Victory	**Victory Watertube Boiler w/ Economizer rated at 205,000 lb/hr at 250 psig** • "O" Type design • Natural gas fired includes gas train • Economizer • Controls • Combustion blower is a NY Blower with 400 HP motor Serial Number 41B. Boiler is currently in operation running at 190,000 #/hr at 150 psig 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. **Still installed, Idled in March 2025**	Used - Good Illinois
Watertube Boiler 250,000 #/hr Asset ID: 2349 Cleaver Brooks	**Cleaver Brooks Industrial Watertube Boiler 250,000 lbs/hr superheated steam** • Boiler model NB-801D-125-550-AL-LH, serial CP-4582 • NEW, never installed • D-type watertube style • Pressure 420 psig operating pressure (superheated, temp 650F +/- 25). Superheated steam • Natcom LoNOX Burner, natural gas. Gas train included. Burner model NCB-330-68A-000-S10-000 • Stack included - 3 sections • Economizer, ECO, Inc. vertical 7.5 ft dia x 20 ft tall • Controls - 2 plc's + burner management + combustion controls • Includes SCR for emissions reduction • Under nitrogen purge with desiccant in furnace area Removed and stored - ready to load. See additional information in document links	New, Old Stock Illinois

Watertube Boiler 90,000 lbs/hr Asset ID: 2116 Victory	**Watertube Boiler with Economizer 90,000 #/hr Natural Gas** 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. • Economizer • Feedwater System • Stack 50 feet • Electrical and PLC control systems. 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. 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. All tubes are full diameter tubes with no swaging.	Used - Very Good Washington

Centrifuge and Decanter		**1 Items**
Centrifuge RSC40 Asset ID: DC-510 GEA	Centrifuge RSC40-01-077-020-1-001 Capacity 40 GPM, 8000 max admissible rated bowl speed in minutes S/N 9071-035	Illinois

Centrifuge and Decanter/Centrifuge		**11 Items**
Centrifuge B214 A Asset ID: 5575 Alfa Laval	Alfa Laval B214A centrifuge. 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. Centrifuge can also be purchased " as is, where is " if desired.	Reconditioned Houston, TX
Centrifuge B214 C Asset ID: 7117 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 Texas

Centrifuge MAB 206 Asset ID: 1756 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 Saskatchewan
Centrifuge MAB 206 Asset ID: 1757 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 Saskatchewan
Centrifuge MOPX 207 Asset ID: AL-1 Afa Laval	Alfa Laval MOPX 207 disk stack centrifuge. Model MOPX 207 SGT-24-60, serial number 2967145. Rebuilt, never used. Approx capacity 3 to 6 cu m/hr depending on oil viscosity (15 to 26 gpm). Includes controls, VFD for direct drive 10 HP motor, and necessary tools.	Reconditioned Texas
Centrifuge MOPX 207 Asset ID: AL-2 Alfa Laval	Alfa Laval MOPX 207 disk stack centrifuge. Model MOPX 207 TGT-14-60, serial number 2967197. Rebuilt, never used. Approx capacity 3 to 6 cu m/hr depending on oil viscosity (15 to 26 gpm). Includes controls, VFD for direct drive 10 HP motor, and necessary tools.	Reconditioned Texas
Centrifuge MOPX 207 Asset ID: AL-3 Alfa Laval	Alfa Laval MOPX 207 disk stack centrifuge. Model MOPX 207 SGT-24-60, serial number 4036230. Rebuit, never used. Approx capacity 3 to 6 cu m/hr depending on oil viscosity (15 to 26 gpm). Includes controls, VFD for direct drive 10 HP motor, and necessary tools.	Reconditioned Texas
Centrifuge MOPX 207 bare Asset ID: AL-4 Alfa Laval	Alfa Laval MOPX 207 disk stack centrifuge. Model MOPX 207 SGT-24-60. Rebuilt - never used. Approx capacity 3 to 6 cu m/hr depending on oil viscosity (15 to 26 gpm). This is a bare machine still in crate to be used as spare. No controls, no tools, no motor. Photo shown is representative and is of identical centrifuge.	Reconditioned Texas

Centrifuge OSB-35 Asset ID: 1748 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 • Includes:20 HP, 480 Volt, 3 Phase, 60 Cycle Explosion Proof Motor • 6500 RPM Bowl Speed, 11,000 G Force • Paring Device on Light Phase • Gravity Discharge on Heavy Phase • Direct Drive • Powder Coated Frame • 20 Litre Bowl Volume • 11 Litre Sludge Space • 40 Degree Bowl with 0.5 MM Caulk Space • Stainless Bowl • SS Bowl Liner, with set of Erosion Clips • Water Harness • Special Set of Tools • Operation / Parts Manual • Warranty 6 months	Reconditioned Alberta
Centrifuge RSA-60 Asset ID: 1680 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 Europe
Centrifuge VO 10 ss Asset ID: 1931 Alfa Laval	**New Alfa Laval VO10 centrifuge** 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. • Rated at hydraulic capacity 44 gpm for a nominal capacity of 100 MTPD (19 gpm). • Direct drive 18.5 KW (25 HP) motor with VFD. 480v 3/60 • All wetted parts in contact with product are stainless steel 304 • Controls included • Tools included • Still in original crates • We have the complete specifications in our Virtual Data Room - by invitation • Available for immediate shipment	NEW Colorado

Centrifuge and Decanter/Decanter **8 Items**

Decanter Asset ID: 1998 Siebtechnik	Siebtechnik short bowl decanter (SBD) model SBD 400K, serial 6790. Speed 2800 rpm. Drive motor approx 20 HP. 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 Indiana
Decanter CB-505 Asset ID: 1716 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 Texas
Decanter Centrifuge CA-458 Asset ID: 7638 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 Florida
Decanter Frames & Bases Asset ID: B2092 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 Peoria, IL
Decanter P-3400 3-Phase Asset ID: 6001 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 Mexico
Decanter PM75000 Asset ID: 1762 Sharples	Sharples PM75000 Decanter - (2) Units available. RECONDITIONED - WARRANTY. Rated at 270 gpm. CENTRIFUGE 29 inch x 92 inch with Gear Units, (95 to 1). Material stainless steel ss316/ss317. Max bowl speed 2600 RPM, 2780 G's, 360 degree cake discharge, 10" single lead conveyor with STC tiles & STC feed zone, half-moon plate dams, fiberglass top cover, feed tube, P180 95:1 gearbox, Includes 175 HP motor 460/3/60/1785PM and new 60 HP AC backdrive. With stand, lube system, polymer feed tube, guards, vibration isolators, control panels, spare parts & tools. New controls with touch screen, vibration switch, and VFD's for 200 HP and 60 HP. Prior use: Waste water sewage treatment 1984 vintage. Allow 16-18 weeks ARO. There are (2) machines available - priced separately	Reconditioned Texas
Decanter, Gastight ss316 Asset ID: 2350 Siebtechnik Tema	**Siebtechnik Tema SBD-210 gastight short bowl decanter, 316ss.** • Gas tight decanter reconditioned by OEM in 2020 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 Eastern Canada

Sharples P3400 Decanter Centrifuge Asset ID: 2055 Sharples	Sharples P3400 completely reconditioned decanter centrifuge 14 x 48 52,500.00 Carbon steel skid and guards. 4.25 conveyor with hardfacing 4000 rpm max Non Sanitary P3400 , 15 HP back drive, 40 HP Main Drive 3,100 g's max, 50 GPM Gearbox assembly 125 to 1 gear box ratio All new bearings, seals, mechanical seals, o rings Paint Carbon steel base, White, paint carbon steel sub base white, and stand New main motor coupling and belts and vibration switch Control panel - Decanter Centrifuge control panel with 40 HP Bowl and 15 HP Backdrive 460 VAC / 3 phase power / 60 Hz 120 VAC transformer with protective circuit breakers 24VDC Power Supply with protective circuit breakers NEMA 12 Freestanding enclosure with thermostat controlled cooling fan Flange mount 100 amp disconnect and ground lug 150HP VFD with protective fuses for the Bowl 15HP VFD with protective fuses for the feed pump Emergency Stop Pushbutton	Reconditioned Texas

Chiller — 2 Items

Chiller 260 Ton Asset ID: 5598 McQuay	Water Chiller. Built by McQuay. Used, 260 ton nominal capacity. Model # PEH063-CBA C. Chiller has self-contained single compressor hermetic chiller, plus condenser and evaporator. The control panel has a Microtech micro-processor but controls are in poor shape - they will have to be replaced. Motor is approx 300HP 460v 3/60. This unit uses refrigerant 134A and has 22,190 hours logged with 2331 starts. All service records and manuals are available. Chiller was taken out of service 2010. Unit is removed and ready for loading. Price includes loading on your truck.	Used - Fair Ft Worth, TX
Chiller, 100 Ton Asset ID: 2100 Thermal Care	**Water Cooled 100 Ton Water Cooled Chiller** • 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. • 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. • Chiller set points from -20F to 75F • Runs on R134a refrigerant. • Stainless steel brazed plate evaporator • 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 Illinois

Columns — 11 Items

BDU Biodiesel Unit Asset ID: X2058	Biodiesel Recovery Unit (BDU) for Biodiesel 5 MGY plant. Size estimated at 2 ft dia x 8 ft tall, insulated . No more information available, specs unknown	Used - Fair Mississippi

Distillation Column 14" Asset ID: 8136 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 Virginia
Distillation Column 24" Asset ID: 8137 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 Virginia
Glycerin Coalescer Packed Tower 24" dia Asset ID: X2018 Ducon Environmental Systems	Column coalescer. ASME MAWP 14.5/F.V. at 392F. Material ss 316L. Packed tower, Capacity 750 gallons. Size must be measured but approc 2 ft dia x 15 ft tall. Last used as glycerin coalescer	Used - Good Mississippi
HP Vertical Column Asset ID: C-210 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 Illinois
HP Vertical Column Asset ID: C-310 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 Illinois
HP Vertical Column Asset ID: C-408 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 Illinois
Methanol Distillation Column Asset ID: E-612X SRS	Methanol distillation system and structure for a 15 MGY biodiesel plant. Self Contained Skid and structure- Modular Distillation, by SRS. Structure is approx 12 ft x 12 ft x 40-45 ft tall. Specs unknown	Used - Fair Mississippi
Methanol Recovery Unit (MRU) Asset ID: X2048	Methanol recovery unit.for Biodiesel 15 MGY plant. Size estimated at 2 ft dia x 12 ft tall. No more information available. Specs unknown	Used - Fair Mississippi
Packed Column Biodiesel Distillation Asset ID: C-805 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 Illinois
Packed Column Methanol Distillation Asset ID: C-704 Fenix	Packed Column - Fenix Column 5400 gallon, 4 ft x 76 ft SS. Last used as Methanol Distillation Column	Used - Very Good Illinois

Columns/Scrubber **2 Items**

Scrubber Asset ID: X2050	Scrubber. Specs unknown	Unrated Mississippi
Wet Scrubber, Chemical Asset ID: FB-51 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 Illinois

Compressor/Air Compressor — 2 Items

Air Compressor, Recip 2HP Asset ID: 2066 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 Northern US
Air Compressor, Recip plus Dryer Asset ID: 2052 EMAX	**Reciprocating air compressor and refrigerated dryer** 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 Northern US

Compressor/Gas Compressor — 2 Items

Vapor Compressor (MVR) Asset ID: 380-EQ-882 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 Saskatchewan
Vapor Compressor (MVR) Asset ID: K-1651 AC Compressor Corp	**MVR Gas Compressor built by AC Compressor Corporation** • Model D24JR. Skid Mounted • Single stage centrifugal compressor with Buffer/Educt labyrinth shaft seals, and remote oiler • Includes 2000 HP Reliance squirrel cage induction electric motor, 1800rpm, 4000v 249A 60Hz/3 phase • Includes motor starter • Lufkin gearbox model N1400C 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 Grant City, MO

Conveyor — 1 Items

Screw Conveyor Asset ID: MSC-108	Metering Screw conveyor with Sew-Eurodrive Gear Reducer Type SAF57DRE80M4/MM07/MO, Output 3.9-23.79 rpm	Illinois

Conveyor/Belt		5 Items
Belt Conveyor 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 Northern US
Belt Conveyor 12 ft Asset ID: AF8	Inclined belt conveyor (last used to feed hopper). Approx size 18" wide x 12 ft long.	Unrated Illinois
Belt Conveyor 31 ft Asset ID: 1667 Kolberg-Pioneer	**Kolberg-Pioneer Belt Conveyor** Kolberg-Pioneer Belt Conveyor, bulk product transfer conveyor. Model # 41-2431, serial number 417382. Driven by Emerson motor- model # AD88, 10HP 1760rpm. 230/460 volts 3/60. A new conveyor belt is included. The conveyor is in good working condition. It was previously used to load out dried distillers grain at about 55 tons per hour.	Used - Good South Dakota
Biomass Belt Conveyor ss 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 Colorado
Biomass Conveyor ss Asset ID: 8561 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.	Used - Good Colorado

Conveyor/Drag		1 Items
Drag Conveyor Parts Asset ID: Y-1642X Tramco	Assorted drag conveyor parts - Priced by the foot. These Tramco drag conveyors were purchased, dismantled, and shipped to the laydown yard. They are still in pieces. There is no guarantee that all the ones shown on the spreadsheet are still there but there is excellent value in these conveyor pieces (to make sections in whatever length you desire) - already disassembled and ready to load. We have more detail and photos of each asset [before it was dis-assembled] • **NOTE: Priced by the foot - you decide how much and how long you want**	Unrated Mississippi

Conveyor/Screw		1 Items
Screw Conveyor, ss 10 ft 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 Illinois

Dryer/Belt	2 Items

Biomass Belt Dryer 1000 lb /hr Asset ID: 8101 Global Hemp Solutions	**Biomass Belt Dryer rated at 1,000 lb/hr** Global Hemp Solutions 3-Pass Belt Dryer with natural gas fired heater, blower, and infeed conveyor • **Burner** is a Power Flame model FD75 Natural Gas Fired Burner. Rated at min. fire 18.75 MBTU/hr to max. fire 750 MBTU/hr. Incudes natural gas train and flame supervisor software. • **Blower** is Air Pro Backward Inclined High Volume fan (BIHS), model BIHS365. Moves high volumes at low static pressures. Direct drive - Driven by 40 HP motor 460/3/60 • **Conveyors:** Infeed is an inclined belt conveyor at about 30 degrees - approx. 6 feet wide x 25 feet long driven by a 1 HP motor and Nord gearbox, and outfeed conveyor is plastic mesh inclined conveyor approx. 3 feet diameter and 10 feet long [both conveyors will have to be measured]	Used - Very Good Illinois
Biomass Belt Dryer Gryphon Asset ID: 2042 Gryphon	**Gryphon Biomass Hot Air Belt Dryer** • Gas fired recirculating counter current air dryer. Model A.318. • Dryer section is 3 ft wide x 18 ft long. • Evaporation rate (condensate rate) will be approximately 213 lbs/hr of water • 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. • 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. • 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. • Six VFD drives in all Allen Bradley PowerFlex 525. • Condenser coils. • Includes infeed sifter and lid lift assembly for easy maintenance and operation. • Includes fabricated feed belt 23.625" wide cleated belt. • 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. • CTS cooling tower and condenser unit is part of the package. 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 Northern US

Dryer/Compressed Air		**2 Items**
Air Dryer, Regenerative Desiccant Asset ID: 1933 Atlas Copco	Atlas Copco heated regenerative desiccant compressed air dryer rated for 150 psig and a pressure dew point of -40C/-40F. Twin towers. Skid mounted. Air flow approx 1100 cfm. ASME Nat'l Bd # 13082 MAWP 159.5 psi at 662 F. Serial No. CMGBD3A06R12. Was in operational condition when idled in 2019. See dryer brochure and specs under Document LinksAir Dr	Used - Good Indiana

Air Dryer, Regenerative Desiccant Asset ID: B2098 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 Peoria, IL

Dryer/Flash Dryer — 2 Items

Swirl Fluidizer Flash Dryer System Niro Asset ID: AF94 GEA Niro	**GEA Niro Swirl Fluidizer System - Flash Dryer** 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. • Air flow 450-630 kg/hr • Inlet temp 100-350C • Outlet temp 60-150C • Water evaporation 0-55 kg/hr • Max powder rate 100 kg/hr • Max feed rate 150 kg/hr • Gas supply natural gas or propane 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. **See detailed presentation in the Document Links**	Used - Excellent Illinois
Vacuum Dehydration Unit Asset ID: 2087 IFS	**Vacuum Dehydration Unit** 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 Michigan

Dryer/Fluid Bed — 1 Items

Fluid Bed Dryer Asset ID: 8411 Barr Rosin	**Fluid Bed Dryer** Fluid bed dryer design rate 4,244 lb.hr with infeed moisture at 20% by wt, and final product output at 3% by wt. • Evap capacity 744 lb/hr • Comenco systems duct heater/burner and control panel. Model DH-65-4-0-NPO. Serial # 91322. Runs on natural gas. Maximum input 4,000,000 BTU / h. • Bed size 3 ft x 12 ft static fluid bed • Induced Draft Fan: Located at Cyclone at top. Air Blower Twin Cities Size 921-CW driven by 75 HP motor 1475 rpm 460v 3/60. Rated at 15,879 cfm at 13" sp. FANC/03 • Forced Draft Fan (inlet) Fan missing but housing and inlet ducting is still there: WAS 50HP 1800 rpm 460v 3/60 Twin Cities Air Blower 7897 cfm at 16 sp. Inlet fan FANC/01 • Forced Draft Cooler Fan: 20HP 1800 rpm 460v 3/60 Twin Cities air blower 3039 cfm at 12 sp Outlet Fan FANC/02 • (4) Sifter Screen Units. Tru-Balance (2) 40 7/8" sq, (2) 30 7/8" sq • Carbon steel construction • Ducting included • Price quoted is removed and loaded on truck. Last used for corn germ drying - product density at 32 PCF. See Specs in Links. Last Ran in 2011 - Was functional when shut down	Used - Very Good South Dakota

Dryer/Rotary		2 Items
Rotary Steam Dryer Asset ID: 5380 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 Texas

Rotary Steam Dryer ss Asset ID: PK-2347 Drying Solutions	**Rotary Steam Dryer stainless steel- Evap Rate 900 lb/hr** 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 • Evaporation rate 900 lb/hr. Set for 65% moisture IN and 5% moisture OUT at 1500 lb/hr feed rate. • 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 • Natural gas fired burner with controls and fire-eye, Blower, belt drive. Rated at 7.3 MMBTU/hr • 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) • Cyclone and vertical condenser • Drag conveyer and 3 screw conveyors • All controls including plc and touch screen HMI built into panel • 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. • 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) In excellent operating condition. Idled in mid 2022. Tested operation again for 2 weeks in Aug 2024. See drawings in LINK **Price includes removal** and loading on your trucks. (no freight but we can quote for that if desired)	Used - Excellent Iowa

Dryer/Spray Dryer — 1 Items

Spray Dryer, Pilot 22 lb/hr Asset ID: 2110 Hemraj	**Spray Dryer-Small Scale. NEW. Never used. Still in Crates** Manufactured by Hemraj. Model PSD-02 Suitable for pilot plant or semi-works. • Evaporation capacity 5 to 10 kg/hr water (11 to 22 lb/hr evap rate) • Can operate co-current or counter current • Volume of dryer is 1687 L (450 gallons) • Air Flow 450 cu m/hr • Atomizer: Includes two - pressure nozzle and two-fluid nozzle. Pressure nozzle diameter 1mm. Compressor pressure in case of two-fluid nozzle is 8 bar max. • Peristaltic pump • Stainless steel (316L) including the supporting structure • Electrical heater 20 KW • 20KW maximum heating power. Inlet temp. 200C, maximum 300C • Dimensions given are for the spray dryer vessel. NOTE: We have packing lists, crate sizes, wiring diagrams, and other information. Call or email us.	NEW Kentucky

Electrical — 4 Items

Air Core Reactors 2000 KVA Asset ID: B2094 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 Peoria, IL
Disconnect 100HP Asset ID: AF91 Square D	Square D disconnect for 100HP vacuum pumps 460v. Quantity (2) - priced separately.	Illinois
MCC Asset ID: MCC-1 Square D	MCC-1 Motor Control Center - Square D	Illinois
MCC Asset ID: MCC-2 Square D	MCC-2 Motor Control Center - Square D	Illinois

Electrical/GenSet & Generator — 2 Items

Generator Gas Dryer and Analyzer Asset ID: 8881 e One (Environmental One Corp)	**GAS STATION™ From E/One** **GAS STATION is a new modular approach to gas control and monitoring for hydrogen-cooled generators** The E/One Gas Station is a modular approach that combines monitoring and control systems onto a single skid **MODULES** • Generator Gas Analyzer - GGA The Generator Gas Analyzer (GGA) continuously analyzes generator cooling gas during normal and purge operations to ensure optimum purity levels and maximum operational efficiency. ssembly # 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. • Generator Gas Dryer - GCD 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 Illinois

Steam Turbine Gen Set 7 MW Asset ID: 2117 Howden	**GenSet - Howden 7MW Steam Turbine with AC Generator, 50/60 Hz. Model TWIN-CA 56** **GenSet Rating 7 MW at 13.8 kV 60 Hz** Used less than a year - still under power ***Turbine*** • Manufacturer Howden. OEM: Siemens Turbomachinery Equipment / TD Power systems Series SST-110. • Operates on 900 F superheated steam at 800 psig • Provides process steam at 375 F at 46 psig. ***AC generator*** • Generator is a Brushless AC generator with an AC exciter and rotating rectifier mounted on a common shaft. • Continuous rated output kW / kVA 7000 / 8750 • Speed in (rpm) 1800 • Voltage (Volts) 13800 • Full load current (Amps) 366 • Frequency (Hz) 60 Hz 3 phase • Power factor 0.8 (Lag) • No. Of poles 4, insulation Class F • Enclosure Main: IP 54 • Cooling System Main: IC 81W • Bearings Two nos. sleeve Bearings • Bearing oil feed system Forced Lubrication Used less than a year and is still under power.	Used - Excellent Washington

Electrical/MCC		1 Items
Vacuum Starters Contactors, HV Asset ID: 2035 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 Illinois

Electrical/Motor		17 Items
Motor Asset ID: M107 Marathon	Marathon electric motor. Frame 286T. 1765 RPM. 230/460V	Used - Good Grant City, MO
Motor Asset ID: M1012 Toshiba	Toshiba electric motor	Unrated Grant City, MO

Motor 100 HP Asset ID: M111 Pacemaker	Pacemaker 100 HP electric motor. Frame 405TS. 1730 RPM. 230/460V	Used - Fair Grant City, MO
Motor 100 HP Asset ID: M103 GE	GE 100 HP electric motor. Frame 405TS. 1780 RPM. 230/460V, 140/70A.	Used - Good Grant City, MO
Motor 30 HP Asset ID: H114 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 Grant City, MO
Motor 30 HP Asset ID: M1005 Marathon	Marathon 30 HP electric motor. Frame 286TS. 3545 RPM. 230/460, 68.4/34.2A.	Used - Good Grant City, MO
Motor 40 HP Asset ID: H113 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 Grant city, MO
Motor 40 HP Asset ID: M101 GE	GE 40 HP electric motor. Frame 324TS. 3565 RPM. 460V, 43.7A.	Used - Fair Grant City, MO
Motor 40 HP Asset ID: M102 GE	GE 40 HP electric motor. Frame 324TS. 3565 RPM. 460V, 43.7A.	Used - Fair Grant City, MO
Motor 40 HP Asset ID: M108 Pacemaker	Pacemaker 40 HP electric motor. Frame 404T. 1185 RPM. 220/440V, 147/73.5A.	Used - Good Grant City, MO
Motor 400 HP Asset ID: H2001 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.	Used - Good Grant City, MO
Motor 450HP Asset ID: B2083 Marathon Electric	Marathon Electric 450 HP Motor, 460V, 60 Hz, 3565 RPM, Frame 449TSD	Used - Good Peoria, IL
Motor 50 HP Asset ID: M106 Marathon	Marathon 50 HP electric motor. Frame 365T. 1180 RPM. 230/460, 124/62A.	Used - Good Grant City, MO

Motor 60 HP Asset ID: M109 Pacemaker	Pacemaker 60 HP electric motor. Frame 404T. 1185 RPM. 220/440V, 147/73.5A.	Used - Good Grant City, MO
Motor 60 HP Asset ID: H109 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 Grant City, MO
Motor 60HP Asset ID: M110 Pacemaker	Pacemaker electric motor 60HP 1200rpm	Used - Fair Grant City, MO
Motors 40 HP (NEW) Asset ID: X2097 Baldor	Baldor 40HP motor, 1770 rpm 460v 3/60. Frame 324T, TEFC.. Were spares - new, old stock. Qty (3) - priced separately	New, Old Stock Mississippi

Electrical/Panels		2 Items
Control Cabinet Asset ID: X2039	VFD control cabinet with Allen Bradley PanelView 600 and multiple VFD's. Two sections. Last used as gylcerin control panel	Unrated Mississippi
Control Panel I/O Asset ID: X2038 Benshaw	Reactor skid control panel and I/O. Three sections. Allen Bradley touch screen control and plc.	Unrated Mississippi

Electrical/Switchgear		2 Items
Switchgear 13.8 kV Asset ID: B2100 S&C	S&C metal-enclosed switchgear.13.8 kV, main bus 600 A. Three phase 60 Hz. Catalog number CDA-749682	New, Old Stock Peoria, IL
Switchgear, Gas Insulated 69kv (GIS) Asset ID: B2111 ABB	**Gas Insulated Switchgear (GIS) 69kv** ABB switchgear 69kv - insulated gas, small footprint (GIS) with leak tight Sulfur Hexafluoride gas (SF6). Model ELK-04 • Two (2) 69kv distribution busses with disconnects, • Eight (8) 72kv feeder circuit breakers, ELK-04 • Four (4) tie breakers • Panel • All inside protected building - never energized or used See 16 page detail sheet attached in LINKS.	New, Old Stock Peoria, IL

Electrical/Transformer		2 Items
Transformer 47.7MVA ABB Asset ID: 8103 ABB	Transformer - Used 47.7 MVA by ABB (Asea Brown Boveri, Power T&D Company) Made in: Saint Louis, MO Type: 47.7 MVA Oil-filled transformer, Type SL, Non-PCP; Cu/Cu Specifications: • Three-phase, 60 Hertz • Class: OA/FA/FA • Windings: 11,500 GRDY/66,395 Volts, 13,800 Volts • Capacity: 28,600/38,100/47,700 KVA • Temperature Rise: 65°C average • Impedance: 10.49% at 28,600 LVA, 115,000 to 13,800 Volts • Test Levels: High Voltage: 550 KV; Low Voltage: 110 KV • Oil Volume: 4,822 gallons	Unrated Northeast US
Transformer 75 KVA Asset ID: 8806 Square D	**Transformer 75 KVA** Square D Transformer. 75 KVA. Cat # 75T12H. Class AA. HV: IN: 240V, 180AMPS, 60Hz. LV OUT: 208Y, 120V, 280AMPS. Used, but in good condition and has been tested.	Used - Very Good Illinois

Electrical/VFD		2 Items
VFD 7.5 HP Asset ID: AF90 SEW	SEW variable frequency drives (VFD) Movidrive. Inverter. SEW part number 08249571. Type MDX61B0055-5A3-4-OT. Size 5.5KW (7.5HP). Input 200-240V with 3HP output. Small footprint 105mm x 314mm weighing 2.8kg. Quantity (10) - priced separately	Used - Good Illinois
VFD 75HP Asset ID: 8807 Toshiba	**NEW Adjustable Speed Drive 75HP** Toshiba VFD 75HP. Manufactured in 2008. Serial # 080402884. Q7 Flow. Input: 460v, 105.6 amps, 50/60Hz, 3 phase. Output: 0-460v, 96 amps, 50/60Hz, 3 phase.New, never used-old stock. Still in crate	New, Old Stock Illinois

Elevator Leg		1 Items
Elevator Leg Parts Asset ID: X2106 BSI	Assorted elevator leg parts - sold as a LOT	Unrated Mississippi

Emissions Control/Electrostatic Precipitator	1 Items

Wet Electrostatic Precipitator (WESP) Asset ID: 8234 Lundberg	**Lundberg Wet ESP (WESP)** A wet electrostatic precipitator (wet ESP) or (WESP) uses electrostatic forces to remove particulate matter emissions in exhaust gas streams. It is a particulate matter control device that functions by employing an intense electric field to ionize/charge and capture particles and droplets onto a collection surface. A.H. Lundberg's Wet Electrostatic Precipitators can achieve up to 99% collection efficiency, and outlet loading of less than 10 mg/Nm³. The collection of fine particulate emissions is often one of the most difficult environmental control problems faced by industry. These sub-micron particles (e.g. PM 2.5) present a significant threat to human health and are one of the leading causes of smog. As regulatory pressure to reduce the emission of these particles to the environment escalates, industrial operators must look for technologies to meet this challenge at reasonable capital and operating costs.	Unrated PA

Evaporator — 11 Items

Dehydration Unit Oil Dryer 21 gpm Asset ID: 6227 Wintek	**Oil Dryer - Vacuum Dehydration Unit** **Wintek Corporation Dehydration Unit. Like NEW - only 31 run hours!!** **Evap Rate up to 23 lb/hr water** 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). 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 Saskatchewan

Evaporator System, 4-effect Asset ID: 2114 Rosenblad	**Rosenblad Multi-Effect Evaporator System** 4 Effect Evaporation System With a Stripper-Condenser and Thermal Oxidizer Effect Evaporators & Stripper Condenser Evaporators with 4 Effects. 1st effect has 3 effects inside to provide continuous operation while washing. Effects use Lamella style plates. Rosenblad falling film plate technology for continuous concentration of customer's specialty weak liquor solution. Material all 304 Stainless Steel. See links for details of system **Design Conditions** • Evaporation Rate 152,169 lbs/hr. • Feed Liquor Flow Rate 220,200 lbs/hr (approx 400 gpm) • Feed Liquor Concentration 12.0% TDS, Feed Liquor Temperature 150 °F • Estimated methanol content 600 mg MeOH L (liquor) **Product Liquor** • Product Liquor Flow Rate Outlet 48,031 lbs/hr • Product Liquor Concentration 50% TDS, Product Liquor Temperature 214.0 °F **Steam Consumption and Economy** • Steam to the First Effect 41,950 lbs/hr • Steam pressure (Minimum) 21.8 psia (233F) • Steam Economy 3.63 **Cooling Water and Air** • Cooling Water Flow Rate 2,564 gpm • Cooling Water Inlet Temperature 80f, Outlet 113F • Air pressure for automated valves (Min) 90 psig **Power Consumption** • Power Consumption for the (9) pumps 178.85 kW (240 HP) **Thermal Oxidizer** • Destroys 99.9% of separated methanol and NCG streams	Used - Very Good Washington
Falling Film Evaporator Asset ID: 380-EQ-870 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. 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 Saskatchewan

Molecular Sieve Alcohol Dehydration Unit Asset ID: 1760 Wintek	**Molecular Sieve Dehydration Unit (MSDU)** For drying liquid phase alcohols or solvents by molecular sieve dehydration. Wintek Model MSDU-M02.05, serial 110401. 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. • Operation 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 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 Saskatchewan
Rotary Evaporator Asset ID: 8124 Across International	**Across International SolventVap Rotary Evaporator 20L** This unit was bought in 2021, never used. Stored in protected warehouse - excellent condition • Evaporation speed for ethanol is 7.5 L/hr and for water is 3.78 L/hr • Power 220v 50/60 Hz single phase 4300 watts • Max flask size 20L (5.3 gallons). Water bath temp ambient to 95C, rotation speed 20 to 130 rpm • Size 49 x 23.5 x 82.5 inches tall, weight 238 lbs evaporator and 130 lbs glassware. Serial 21070201 **Julabo Recirculating Chiller**, model FL11006. Temp to -20C, bath volume 47LSE53 • Air cooled 230v 3/60 • High cooling capacity up to 11 KW (3 TonsR) • Water or glycol/water and pump at 60 L/min. • Size 30.7 x 33.5 x 58.3 mm, weight 556 lbs **See Asset PK-8120 for a substantially Reduced Package Price** for Ethanol Extractor asset 8122, Falling Film Evaporator asset 8123, and Rotovap asset 8124. For more detail on each component, enter V8120 in search box	New, Old Stock Texas

Rotary Evaporator, Lab Size 50L Asset ID: 2354	**Vertical Condenser Rotary Evaporator 50L** • 50L Rotary Evaporator - voltage 220 single phase • Chiller DLSB-50/30, voltage 220v single phase. • Rotate speed 0-122 rpm • Very few hours • Spare parts package- Does not include vacuum pump 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 Tennessee
Supercritical CO2 Extractor 20L Asset ID: 8564 IES Isolate Extraction Systems	**Supercritical 20L Hydraulic CO2 extractor** Closed loop liquid CO2 extractor. Model CDMH.20-2X-2F, mfg by Isolate Extraction Systems • Material of Construction 304/316 stainless steel • Manual available on request • Volume 20 liters per extraction (40 total liters) • Capacity 4 - 17.6 lbs per extraction vessel • max flow rate 4 kg/min • Solvent Range: 850-3500 psi (58.6-241.3 bar), 50°-140°F (10°-60°C) • Expansion Range: 400-650 psi (27.5-44.8 bar), 65°-140°F (18°- 60°C) • Includes chiller **Understanding Supercritical CO2 Extraction** 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 Colorado

Supercritical CO2 Extractor 10L Asset ID: 8565 IES Isolate Extraction Systems	IES supercritical CO2 extraction system 10L - skid mounted, closed loop liquid CO2 Extractor. Model CD10000H-2x-2f • Volume: Dual 10L solvent chambers, 10 liters per extraction vessel [20 total liters] • Capacity: 2 – 8.8 lbs (0.9 – 4 kg) per extraction vessel* • Max Flow Rate: 2.4 kg/min +/-5% ** • Solvent Range: 850-3500 psi (58.6-241.3 bar), 50°-140°F (10°-60°C) • Expansion Range: 400-650 psi (27.5-44.8 bar), 65°-140°F (18°- 60°C) • Materials of Construction 304/316 stainless steel • Manual available on request • Chiller by Thermo Scientific ThermoFlex 5000 operated at 2900w at 19 degrees C, rated at 5000w. Circulating chiller **Understanding Supercritical CO2 Extraction** 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 Colorado
Thin Film Evaporator Dryer Asset ID: 7112 Cherry Burrell	**Cherry Burrell Thin Film Evaporator** Thin film evaporator model 36-144. Used Turba Film Processor wiped film evaporator. Scraped surface area 106 sq ft. Model 36-144, serial 35463EA, mfg number A4128. 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# 925. Driven by 40 HP motor 1182 rpm in/260 rpm at dryer. • ***Capacity depends on moisture and feed***. In general this evaporator can evaporate 30 pounds of water per hour per sq ft surface area. This evaporator has 106 sq ft surface area so it should be able to evaporate up to 3,180 pounds of water/hr. It was operating on lecithin (gums) drying and was doing 10 TPD (833 #/hr). • The jacket passed hydrotest April 2023. • Physical size 36" dia x 144" tall for 252 inches OAH. Weight of dryer only empty 13,200 pounds. Parts of a 3-stage steam ejector barometric vacuum system are available As Is - On pallet • This evaporator is the one on the right (without the blue writing) • We can sandblast and prime for $1500 extra • Equipment has been removed and is ready to load on your truck - price includes removal & loading. Sold As Is - We can also offer reconditioned state. RD-78	Used - Good Texas
Thin Film Evaporator Dryer Asset ID: 7135 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 Bethany, MO

Thin Film Evaporator Dryer Asset ID: 7141 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 Bethany, MO

Farming — 1 Items

Harvester for Tobacco / Hemp Asset ID: 8563 Kirpy	Kirpy Harvester. Model RMTD capable of cutting 1800 to 2200 stalks per hour, cuts and loads directly onto a trailer with no manual intervention.. The RMTD harvester makes quick work of large scale hemp harvests. The PTO powered harvester can process plants up to 5' tall and a 2.5" inches in diameter at a rate of up to 2200 stalk/hour. Last used for hemp harvesting. Working width 3.85 m : Conveyance width 2.50 m : Total weight 850 kg : Use with tractor 3-point hitch with PTO speed 540 rpm :Tractor power to be at least 50-60 hp :Cutting height 3-6 cm : Drive Hydraulic	Used - Good Colorado

Filters — 3 Items

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

Filters/Bag Filter — 5 Items

Bag Filter Asset ID: X2089	Bag Filter, quick open top. 8 #2 BagsSpecs unknown	Unrated Mississippi

Bag Filter 4-bag Asset ID: 2095 FSI	***Rebuilt FSI 4-Bags design model FSPZ 800-C.S.polishing filter*** • Carbon Steel Construction. • 4-Bags Design for Nº2 Bag Size. • 4 Strainers Basket in 304 Stainless Steel Construction. • 3” Inlet & Outlet Flanged Connections. • EZ-open lid with hydraulic system. • 800 GPM Maximum Flow Rate. ASME Nat Bd # 2919 MAWP 150 psig @ 400ºF. Serial num 46120 • Unit is Furnished with 50 Bags. Micron size TBD • Unit Sandblasted, Primed & Painted.	Reconditioned Texas
Bag Filter ss with platform Asset ID: 2101 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 Illinois
Bag Filters, Single Asset ID: X2095 Rosedale	Rosedale single bag filter Model 8. New old stock - in warehouse. Carbon steel housing rated at 150 psig. Connection size 2" NPT, Housing size 30 (basket size 30"), swing bolt closure. Takes #2 bags. Fluoroelastomer seal, FSI/Polyloc basket type. Maximum flow rate 220 gpm. Qty (3) - priced separately	New, Old Stock Mississippi
Filter Bag 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 Grant City, MO

Filters/Baghouse Dust Collector — 3 Items

Baghouse Dust Collector 62sf Asset ID: 8121 MAC	**MAC Baghouse Dust Collector - very low hours** MAC Baghouse dust collector. Model 54ST9. Serial # 161448-006-1. Used only for about a week for a research project - idled outside. • Mounted on structural frame with MAC MD20 airlock and 0.75 HP motor. • 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. • Air to dust ratio of 4:1 at 250 cfm. • Baghouse dimensions 24" x 24" x 6 ft tall • Interior contact areas coated with epoxy • See drawing in Links 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 South Dakota

Baghouse Filter 189sf Asset ID: F-10507 Donaldson Torit	Donaldson Torit Baghouse Dust Collector Filter Model CPC-3. Rated at 700 to 2000 cfm, surface area 189 sf. Uses Power Core filter pack technology instead of bags - 70% smaller than conventional baghouses. Model 1PC-3 takes 3 filter packs. On stand. Size 42.75" x 55.39" x 118.4" tall, weight 800 lbs. Complete assembly includes: • Baghouse filter, • NY Blower 12" square fan [SWSI CW UB Model 12 square fan arrgt 4, 1800 cfm at 6 SP. • Motor 3 HP 3500 rpm 3/60/230-460v TEFC], • Donaldson Rotary airlock 10AN [10" square], • Structure • Interconnecting ducting. Baghouse material: carbon steel painted. Compressed air req'd 10 scfm at 90-100 psig. Built 2012 - had light usage	Used - Very Good Kansas
Baghouse Filter Silo 4300 sf Asset ID: cp101 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 Winnebago, MN

Filters/Belt Dewatering — 3 Items

Belt Dewatering Filter Press Asset ID: 1235 Ashbrook Simon Hartley	**Klampress Belt Filter Press** Dewatering, desludging filter press - Cloth 1.2 meters wide. Mfg by Ashbrook Simon Hartley. Model KP-Mark-2 Klampress, Size 1. Serial 4530.7.167, S/R number 4530. Top belt size 1.2 x 11.920 meters, bottom belt size 1.2 x 12.930 meters. Driven by 3 HP motor. Capacity approx 0 - 80 gpm depending on feed. Removed - ready to load.	Used - Good Iowa
Belt Dewatering Filter Press 1.2 meter Asset ID: 1234 Ashbrook	**Klampress Belt Filter Press** Dewatering, desludging filter press - Model KP-1. Mfg by Ashbrook. Part # KP000586, MPS number 20407, serial number 66448-1765. Belt size 59'-11" long x 47.25" wide. • Includes hydraulic unit • Has spare main belt • Idled in 2022 - Still installed • See drawing for all dimensions 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 Iowa

Dewatering Belt Press Asset ID: 8558 Frontier	**Dewatering Belt Press** Frontier dewatering belt press. Model FTXI-4700. Serial # 0182. 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. Technical Data: • Belt Width- 47 inches • 3HP motor • Spray water flow- 35 to 45 GPM • Spray water pressure- 100 to 120 psig • Air flow @ 100 psig / 2 scfm • Main air pressure- 100 psig	Used - Good New York

Filters/Cartridge Filter		2 Items
Cartridge Filters Asset ID: FC-1513	Cartridge filters, stainless steel. Quantity (2) - priced for the set	Grant City, MO
Dust Cartridge Filter 129sf Asset ID: AF11 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 Illinois

Filters/Coalescer		1 Items
Filter Asset ID: 31-FL-244 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 Soperton, GA

Filters/Membrane		2 Items
Membrane Filter Press 1000sf Asset ID: 5547 Industrieterrein Belgium	Membrane Filter 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 Kingston, Jamaica

Reverse Osmosis Membrane Filter Asset ID: 2028A	**Reverse Osmosis RO Membrane Filter System** 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 **Three stage** • Stage One has (18) 4" vessels, 5 elements per • Stage Two has (18) 4" vessels, 5 elements per • Stage Three has (12) 4" vessels, 5 elements per **Includes 6 pumps. All 6 pumps driven by VFDs** • (3) recirculation pumps (40HP, 40HP, 20HP) • (3) feed pumps (30HP each) **Tanks** • One Feed tank 500 gallons and two smaller tanks (perm & conc) at 120 gallons each. **Controls and HMI incuded**	Used - Very Good Kansas City, MO

Filters/Microfiltration — 1 Items

Microfiltration Asset ID: 1922 Memtek	**Memtek EFC 3600 tubular microfiltration system by Siemens** • (3) microfiltration skidded modules in this set as shown. • Crossflow tubular membranes pvc • Concentration FRP tank 8 ft dia x 9 ft tall (3300 gallon capacity). • Mix Tank, FRP with top entering agitator • Circulation pump is centrifugal 50 HP 460/3/60 rated at 1060 gpm. • 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. 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. 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 MN

Filters/Plate & Frame — 9 Items

Filter Press 200 sf Plate & Frame Asset ID: 7384 Durco Ascension	**Durco plate & frame filter press 200sf** • Has 16 Polypropylene plates 32mm + head plate & tail plate, 8.5 cu ft cake capacity. • Plates are approx 30 in x 30 in = 200 sf surface area (will have to be verified). • Can dewater slurries from 3 to 30% solids - last used in biodiesel service. • Hydraulic cylinder closing ram. • Model EP-G800/32-16 EP Sidebar Filter Press, 100 psi. Built in 2009, used 2 years then idled in 2011. New filter cloths were installed right before idling. Press is removed and ready to load.	Used - Good Marissa, IL
Filter Press 240 sq ft Asset ID: 8813 M W Watermark	**M W Watermark Filter Press** ** 30 poly plates 630mm x 630mm (2 ft x 2 ft) plus front & back plate.** Used cloths Surface area 240 sq ft. Hydraulics air driven, 2" feed pipe and 1.5" discharge piping • Max feed pressure: 100psi • Air supply pressure: 100psi • HVD clampong pressure: 35,000psi, Relief pressure: 4,100psi • Serial # FP01199.	Used - Good Colorado
Filter Press, Plate and Frame 50 sf Asset ID: 2120 Della Toffola	**Della Toffola 16" x 16" Plate and Frame Filter Press** Plate and Frame Filter Press with stainless steel framework and plates/frame. Manufactured by Della Toffola. Plates are 600mm x 600mm. Filter has 14 frames, each measuring approximately 1 7/8 inch wide and 15 plates, each measuring approximately 5/8 inch. Approximate filter area 50 sq ft.	Used - Very Good New York
J-Press Filter Press 613 sq ft Asset ID: 1089 US Filter	**Reconditioned US Filter J-Press** Model: 1000G32-36-30SYLC, Serial: F07121. 37 Poly Plates Total (including end plates) Filtration Area 613 Sq Ft, Press Capacity: 30 Cu Ft Cake Thickness 32 mm Max Feed Pressure: 100 PSI - Max Squeeze Pressure: 100 PSI Air Supply Pressure: 100 PSI HYD Clamping Pressure: 3200 PSI, Relief Pressure: 3600 PSI **Reconditioned in 2025 - stored inside**	Reconditioned Illinois

JWI J-Press Filter Press 3075 sq ft Asset ID: 1088 Evoqua Water Technologies	**JWI J-Press 1500 mm** 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. 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 Illinois
Larox Press & Frame Filter Press 1033 sf Asset ID: 8590 Outotec	**Outotec Larox Vertical Pressure Filter** Vertical pressure filter press. Manufactured by Outotec (Larox). • 1033 sq ft vertical pressure filter press. Model #PF 96/96 M48-2-60. Rated to 16 bar pressure • Capacity: 23,500 kg/hr Dry Solids Capacity. Chamber volume 5.76 cu m, Chamber height 60 mm • Material: 316 Stainless Steel Wetted Parts. 16 Filter Plates. Plate Size: 1500 x 4010mm. • Main Unit Dimensions 7935 mm x 5470 mm x 5860 mm (L x W x H). Filter Cloth dimensions: 1700 mm x 95.5 mm Filter Cloth (W x L). 110 kw, 1800 rpm, 575 Vac, 3-phase, 60 Hz • Hydraulic Power Pack: Hydraulic unit motor (M1HU). 15 KW, 1800 rpm, 575 Vac, 3-phase, 60 hz Hydraulic Oil Cooler Motor (M3HU). 3 KW, 575 Vac, 3-phase, 60 Hz Hydraulic Oil Heater (R1HU). Physical size 3120 x 1865 x 2035 mm tall (3400 kg) • Controls: Control panel and all plc controls with HMI touch screen. Physical size 800 x 400 x 1900 mm tall.(250 kg) • Air Muffler: 950 mm dia x 2610 mm long (550 kg) Serial #1125. Built in 2014. New-still crated.	New, Old Stock Canada
Plate and Frame Filter Press 200 sf Asset ID: X2025 YingXinhuagong	Plate and frame filter press, hydraulic closure with hydraulic unit. Was operated with 25 plates - can hold up to 50 poly plates. Plates are 630mm x 630mm (2ft x 2ft). This press is shown with all 50 plates but 25 of these belong to the other press. - Chinese maker. Filter area 200 sq ft. (Max capacity 60 m2 = 645 sq ft). Estimated 1 inch to 1.25" cake so capacity is estimated at 8-10 cu ft. Serial 202104042 South one - Priced Separately	Used - Good Mississippi
Plate and Frame Filter Press 200 sf Asset ID: X2026 YingXinhuagong	Plate and frame filter press, hydraulic closure with hydraulic unit. Was operated with 25 plates - can hold up to 50 poly plates. This press is shown with no plates but 25 will be furnished from the other press. - Chinese maker. Filter area 200 sq ft. (Max capacity 60 m2 = 645 sq ft). Estimated 1 inch to 1.25" cake so capacity is estimated at 8-10 cu ft. Serial 202104043 North one	Used - Good Mississippi

Plate and Frame Filter Press 2362 sf Asset ID: F3000 McLanahan	**McLanahan Recessed Plate Filter Press 2362sf Like NEW** • These 4 presses were installed and tested - never ran in production • Polypropylene plates - plate size 2m x 2m (approx 6.5 ft x 6.5 ft). • Two presses have 151 plates for 1961 sq ft surface area. Press model pe035e34 (Membrane) • Two presses have 180 plates for 2362 sq ft surface area. Press model pe035e42 (Recessed Plates) • Pressure rating at 200 psi • Approx size 843 inches long x 109 inch wide x 169 inch tall, weight each about 140 tons • Discharge opening 89 inch x 613 inch • Each press has integral hydraulic system 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. **Priced for the LOT - Qty (4) presses**	New, Old Stock Indiana

Filters/Pressure Leaf		9 Items
Filter Press 400sf Vertical Asset ID: 5720 LFC Lochem	LFC Lochem Carbon steel filter vessel. 4.5' diameter, 12' OAH. Surface area 38.5 sq m (400 sf). Model MV.DCD H350 138.5/15/SB. Includes 16" bottom butterfly valve, includes all leaves. Last used for soybean oil bleaching. This unit has been removed and will need reconditioning.	Good Kingston, Jamaica
Filter Press 86 sf Vertical Asset ID: 2021 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 Iowa

Filtration Skid - Pilot Size Asset ID: 7467 Leem	**New Filtration Skid - Pilot Size** **Stainless Steel Skid mounted self contained filter skid. All wetted parts stainless steel 304** 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. • 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. • Includes all necessary ball valves, gaskets, and piping • 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 • Control panel mounted to skid. • Entire assembly mounted to 304 SS support skid. 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. 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 New Jersey
Pressure Leaf Filter Horizontal 412 sf Asset ID: 2025B 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 Texas
Pressure Leaf Filter Horizontal 516sf Asset ID: F20820 Industrial Filter	Horizontal pressure leaf filters - we have 4 available. 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 is 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	Used - Good Texas
Pressure Leaf Filter Horizontal 412 sf Asset ID: 2025C Industrial Filter	Industrial Filter Horizontal pressure leaf filter press, sold Used As Is. 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. Includes leaves. Hydraulic power pack with oil reservoir and 5 HP pump, basic controls to open/close bundle of leaves and door. We can replace hydraulic cylinders and seal at additional cost. Removed, ready to load for immediate delivery. Quantity available (2). Priced separately although we can give discount if both are purchased.	Unrated Texas

Pressure Leaf Filter ss Horizontal 500sf Asset ID: 1941 Industrial Filter	Horizontal pressure leaf filter. ONE (1) USED, As Is. Industrial Filter pressure leaf filter, horizontal tank, vertical leaves, all stainless steel product contact parts, 60" dia. Horizontal tank, rated for 70 psi @ 180 deg. F, ASME code with vibrator and hydraulic power pack. Unit is designed as dry cake discharge with quick opening cam lock door. Unit has overhead hydraulic ram for retracting door and leaf bundle and manifold. • Series 60-3.5-19 Type 122.332 serial number F15401 • 500 sq ft surface area • Stainless Steel - all contact surfaces • Incudes 19 stainless steel vertical leaves 44" x 44" • Includes hydraulic power pack	Used - Good Texas
Pressure Leaf Filter Vertical 385sf Asset ID: 1942 Velo	Vertical pressure leaf filter. ONE (1) USED, AS IS INDUSTRIAL PRESSURE LEAF FILTER, MFG. BY INDUSTRIAL FILTER, TYPE 122.332, SERIES# 60-3.5-19, APPROX. 500 SQUARE FEET SURFACE AREA, HORIZONTAL TANK, VERTICAL LEAVES, ALL STAINLESS STEEL PRODUCT CONTACT PARTS, 60" DIA. HORIZONTAL TANK, RATED FOR 70 PSI @ 180 DEG. F, ASME CODE WITH VIBRATOR AND HYDRAULIC POWER PACK. INCLUDES (19) 44”x44” STAINLESS STEEL VERTICAL LEAVES. UNIT IS DESIGNED AS DRY CAKE DISCHARGE WITH QUICK OPENING CAM LOCK DOOR. UNIT HAS OVERHEAD HYDRAULIC RAM FOR RETRACTING DOOR AND LEAF BUNDLE AND MANIFOLD, INCLUDES HYDRAULIC POWER PACK.	Used - Excellent Texas
Vertical Pressure Leaf Filter Asset ID: X2076	Vertical pressure leaf filter press with butterfly valve at discharge. Specs unknown - last used as diatomaceous earth cold soak filter	Unrated Mississippi

Filters/Reverse Osmosis — 1 Items

RO Reverse Osmosis System Asset ID: 1923 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 MN

Filters/Special — 1 Items

Seitz Filter 3 sq ft Asset ID: 2060 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 Northern US

Filters/Strainer — 2 Items

Basket Strainer Asset ID: 6003 Fluid Engineering	Fluid Engineering Series 105 Simplex Strainer. Cast 316 Stainless Steel. S/N 3100. 150 max pressure. Size 3.	Unrated Grant City, MO
Motorized Strainer Asset ID: 7161 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 Grant City, MO

Gear Reducers		9 Items
Expeller Vertical Hopper Feeder Drive Asset ID: 6015 Anderson	Rebuilt Vertical Hopper Feeder Drive for 33 or 55 DUO Expeller • Thrust Unit Housing, cleaned, Sandblasted and Primed. • Thrust bearing. • Front and Back End Bearings. • Crown & Gear set. • Seals and Gaskets.	Unrated Ft. Worth, TX
Gear Box for Paddle Mixer Asset ID: H117	Gear box for double shaft paddle mixer. Rebuilt.	Unrated Grant City, MO
Gear Reducer, Right Angle Asset ID: GR103 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 Grant City, MO
Gear Reducer, Right Angle Asset ID: GR104 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 Grant City, MO
Gearbox, Falk Asset ID: B2113 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 Peoria, IL
Gearbox, Falk Asset ID: B2112 Falk	Falk gear reducer Parallel Drive reducer, Model 445A3-CR. NEW, old stock. s/n 8000376. Input rpm 1750, ratio 37.96. output rpm 46.1. rated at 250 HP.	New, Old Stock Peoria, IL
Gearbox, Falk Asset ID: B2103 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 Peoria, IL

Gearbox, Falk Asset ID: B2105 Falk	Falk gear reducer Model 445A3-CR. s/n 12-067283-01. Input rpm 1750, ratio 37.96. output rpm 46.1. rated at 250 HP. Reconditioned.	Reconditioned Peoria, IL
Gearbox, Lufkin Asset ID: B2093 Lufkin	Lufkin Gear reducer	Used - Fair Peoria, IL

Heat Exchanger		19 Items
Heat Exchanger Asset ID: H-209 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	Illinois
Heat Exchanger Asset ID: H-211 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	Illinois
Heat Exchanger Asset ID: H-308 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 Asset ID: H-309 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 Asset ID: H-311 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 Asset ID: H-406 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 Asset ID: H-407 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 Asset ID: H-409 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 Asset ID: H-503 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 Asset ID: H-707 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 Asset ID: H-802 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 Asset ID: H-803 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 Asset ID: H-804 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 Asset ID: H-810 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	Illinois
Heat Exchanger Asset ID: H-1001 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
Heat Exchanger Asset ID: H-1002 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	Illinois
Heat Exchanger Asset ID: H-103 WCR	Heat Exchanger 7.09" W x 1905" H x 9" L, 10.7 Sq Ft area	Illinois
Heat Exchanger Asset ID: H-104 WCR	Heat Exchanger by WCR, Single pass flow heat exchanger	Illinois
Heat Exchanger Hairpin 862 sf Asset ID: H-208 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	Illinois

Heat Exchanger/Condenser		**7 Items**
Condenser 1950sf Asset ID: 8069 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 England

Condenser 374sf Asset ID: 8071 Crown Iron Works	Unused Crown Iron Works 374 sq ft (35 sq mt) horizontal condenser. 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 England
Condenser 5088sf Asset ID: 8067 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 England
Condenser Vertical SS 1148sf Asset ID: 7893 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. Removed - ready to load.	Used - Good Texas
Evaporative Condenser 5013sf Asset ID: 8066 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 England
Evaporator Condenser 9498sf Asset ID: 8068 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 England
Flash Drum Asset ID: 31-V-164 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 Soperton, GA

Heat Exchanger/Immersion — 1 Items

Circulation Heat Exchanger 40KW Asset ID: 2103 HEAT Exchange and Transfer	**Circulation Heat Exchanger Package - Electric Immersion Heater 40KW** Skid mounted Circulation Heater Package (CHP) is designed for the use of heating fluids in a self-contained packaged unit that is engineered for processing. The CHP Series of Custom Engineered, In-Line Electric Circulation Heater Package uses a flanged electric immersion heater as the heat source. Heat capacity 40KW (137,500 BTU/hr) Design Data: • Model # CHP1036-40-59S-483, serial # 05-4901-1A, • Skid Mounted • Temperature Limit: 50F Min. / 300F Max • Pressure Limits: 0 psig Min. / 150 psig Max. • Initial Fill: 22 gallons, Inlet/Outlet connections 2" NPT Operational Data: • Fluid- Designed for Vegetable Oil but can be used with any liquid • Heater rating: Input heat 40.3 KW on 480v 3/60 48.5 FLA (137,500 BTU/hr) • Control panel with Watlow cycling high temperature limit switch and temp control Utilities: • Power supply- 480 V/ 3 Phase/ 60Hz; 125 Amp service • Electrical Classification- NEMA 12	Used - Very Good California

Heat Exchanger/Plate Exchanger		17 Items
Heat Exchanger Plate Pack Asset ID: 2369 Alfa Laval	72 new plates for Alfa Laval TS20M heat exchanger. 316ss 0.6mm Flow Plate w/ EPDM Flow Gasket	Unrated Ohio
Heat Exchanger Plates (49) Asset ID: X-400P Alfa Laval	Approx 49 plates for Alfa Laval plate heat exchanger Model FC-500-WTFE - priced for the lot	Used - Good MN
Heat Exchanger, Plate Asset ID: 2368 Alfa Laval	New Alfa Laval TS20M plate & frame heat exchanger with 72 plates.	Unrated Ohio
Heat Exchanger, Plate Asset ID: X2021	Plate heat exchanger. Specs unknown - last used as Small Heat Exchanger Under glycerin colaescer Column	Unrated Mississippi

Heat Exchanger, Plate Asset ID: X2009 Dolphin Marine Services	Plate heat exchanger. Type P2 Fill, rated at 110C and 6 kg/cm2. Specs unknown - used as CFI Heat Exchanger	Unrated Mississippi
Heat Exchanger, Plate Asset ID: X2010	Plate heat exchanger. Specs unnown - used as Next to CFI	Unrated Mississippi
Heat Exchanger, Plate Asset ID: X2088	Plate heat exchanger. Specs unknown - last used as oil dryer coolers. Qty (2) - priced separately..	Unrated Mississippi
Heat Exchanger, Plate Asset ID: X2056	Plate heat exchanger. Specs unknown - last used as MRU Bio Cooler North	Unrated Mississippi
Heat Exchanger, Plate Asset ID: X2057	Plate heat echanger. Specs unknown - last used as MRU Bio Cooler South	Unrated Mississippi
Heat Exchanger, Plate Asset ID: X2047 GEA	Plate heat exchanger by GEA. ASME Nat'l Bd # 2834. Specs unknown - last used as Heat Ex from MRU	Unrated Mississippi
Heat Exchanger, Plate 277 sf Asset ID: X-410 Tranter	Tranter Plate & Frame Heat Exchanger, Model TW-108-HP-33. MAWP 150 psi at 250F; Surface area 277.8 sf w/approx 26 plates. Includes plates. Entire heat exchanger has been disassembled and repainted. Plates are stacked ready to ship.	Used - Very Good MN
Heat Exchanger, Plate 4448 sf Asset ID: 6013 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 Illinois
Heat Exchanger, Plate 539 sf Asset ID: X-400B Alfa Laval	Alfa Laval Plate & Frame Heat Exchanger, Model FC-500-WTFE., sn 30105-54317. MAWP 55 psi at 302F. Surface area 539.6 sf, (19) plates at 0.6 mm gap cassette. Frame will be cleaned and painted. Includes plates. Entire heat exchanger has been disassembled and repainted. Plates are stacked ready to ship.	Used - Very Good MN
Heat Exchanger, Plate 880 sf Asset ID: X-405 Alfa Laval	Alfa Laval Plate & Frame Heat Exchanger, Model EC-500-WTFE, sn 30105-54319. MAWP 55 psi at 302F, Nat'l Bd# 15636 Surface area 880.4 sf with (31) plates. Plates are 0.6 mm plates cassettes. Includes plates. Entire heat exchanger has been disassembled and repainted. Plates are stacked ready to ship.	Used - Very Good MN
Heat Exchanger, Plate 94sf Asset ID: X2099 Alfa Laval	Alfa Laval plate heat exchanger model M10. Has 42 plates at 0.5 mm spacing for 94.7 sq ft surface area. MAWP 150 psig at 190F. Serial number 30115-74342. Excellent condition, lightly used in warehouse.	Used - Excellent Mississippi

Heat Exchanger, Plate ss 280 sf Asset ID: E-1513 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 Grant City, MO
Methanol Condensor Asset ID: X2053	Plate heat echanger used as a methanol condenser. Specs unknown	Unrated Mississippi

Heat Exchanger/Scraped Surface		3 Items
Scraped Surface Heat Exchanger Asset ID: 7145 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 Grant City, MO
Scraped Surface Heat Exchanger 9sf Asset ID: 7107 Cherry Burrell Votator	Cherry Burrell Votator Scraped Surface Heat Exchanger 6x72 single barrel. Used. Model 6SSHE, S/N 90294EC, Mfg Number 00-17418, A5136. This unit has a BWS jacket suitable for brine, water, steam. Last use was to cool lecithin edible oil with cooling water. Driven by Blue motor 20HP motor 460 3/60 with 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 sq 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. Sold As Is - we can recondition for you for additional. See drawings in LINK. 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. • Photos show unit as-installed, and as-removed now in lay down yard ready to load. • We have two of these units - see also asset number 7108	Used - Good Ft Worth, TX
Scraped Surface Heat Exchanger 9sf Asset ID: 7108 Votator	Votator Scraped Surface Heat Exchanger 6x72 single barrel. Used - Model 1C672L, S/N 35464VA. This unit has a BWS jacket suitable for brine, water, steam. Lat use to cool lecithin edible oil with cooling water. All wetted surfaces are stainless steel 304, barrel is Chromium plated Nickel. Has fours rows of ss blades (24 total). MAWP tube 400 psi at 375F/-20F, jacket 150 psig at 375F/-20F. Heat exchange surface area 9 sq ft. Volume in tube (product) 910 cu in, volume in jacket 2,000 cu in. Driven by 20 HP black motor 460 3/60 with 1755 rpm/222 rpm out Physical weight of cylinder & tube is 1150 pounds. Total weight with frame & motor is approx 2500 pounds. See drawings in LINK. 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. • Photos show unit as-installed, and as-removed now in lay down yard ready to load. • We have two of these units - see also asset number 7107	Used - Good Ft Worth, TX

Heat Exchanger/Shell & Tube		14 Items
Heat Exchanger 5700 sf Asset ID: 1340 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 Illinois
Heat Exchanger, Plate Asset ID: X2098 GEA PHE	GEA PHE plate heat exchanger, Model NT150, serial number EIA-160/50072. MAWP 150 psig at 300F. 88 plates (dimension 12.7 inches). Excellent condition, lightly used in warehouse.	Used - Excellent Mississippi
Heat Exchanger, Shell & Tube Asset ID: X2017 Plant Maintenance	Shell & Tube heat exchanger. Must measure size but approx 1 ft dia x 8 ft long. Specs unknown - Last used as Heat Exchanger Next to Glycerin Tanks	Unrated Mississippi
Heat Exchanger, Shell & Tube 1819sf Asset ID: 8084 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 Texas
Heat Exchanger, Shell & Tube 2151sf Asset ID: 41-E-112 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 Soperton, GA
Heat Exchanger, Shell & Tube 5861 sf Asset ID: 31-E-188 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 Soperton, GA
Heat Exchanger, Shell & Tube 1181sf Asset ID: E-7201X DCR Construction	Heat exchanger shell & tube by DCR. Size 28 OD" x 159" long, horizontal on saddles, insulated. Has 615 ss304 tubes at 0.75" OD for surface area of 1,181.1 sq ft. sn 7201-7793 ASMA NB# 214 MAWP 150 shell/ 150 tube psig at -20/400F. TEMA Design BEM CLASS: C. Material CS Shell/SS304 Tubes. Shell side steam/tube side beer Used as Flash Recovery Condenser	Used - Good Mississippi
Heat Exchanger, Shell & Tube 135 sf Asset ID: 31-E-236 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 Soperton, GA

Heat Exchanger, Shell & Tube 280sf Asset ID: 31-E-234 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 Soperton, GA
Heat Exchanger, Shell & Tube ss 102sf Asset ID: 8138 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 Pennington Gap, VA
Reboiler Heat Exchanger 100 sf Asset ID: H-105 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 Asset ID: H-809 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
Reboiler Heat Exchanger 7062 sf Asset ID: 7879 Heat Transfer Systems,Inc.	**Rectifier Reboiler Heat Exchanger 7062 sf** 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. **Specifications** • 304L SS tubes and tube sheets, carbon steel shell jacket for steam • ASME NB# 2068. Designed for Shell 75psi/FV @ 320F, Tubes 60psi/FV @ 320F • Exchanger Configuration: BEM. Vertical Orientation but can be mounted on horizontal • Size 57" Diameter, 16'-0: shell length (over all length 23"-8") Removed - ready to load	Used - Very Good Georgia
Reoiler Heat Exchanger 1635 sf Asset ID: H-706 Rubicon	Reboiler 30 inch dia. X 221.375 inches H, 1635 sq ft area; design pressure 150 psi @ 500F, Tubes 75 psi @ 350 F	Illinois

Instrument **1 Items**

Isolated Signal Converter Asset ID: S2000 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 Jacksonville, IL

Instrument/Flow Flume — 1 Items

Parshall Flume Asset ID: 1668	**Parshall Flume NEW** 3 inch Parshall Flume flow measurement device. Can handle flow rates from 12.5 gpm up to 835 gpm with an accuracy of +/- 2-5%. The Parshall Flume is an economical and accurate way of measuring water flow in open channels and non-full pipes. Fiberglass. Was to be used for waste water treatment flow but never put into service. On pallet - ready to ship	NEW Indiana

Instrument/Flow Meter, Mass — 5 Items

Mass Flow Meter 1" Asset ID: SM01 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 Jacksonville, IL
Mass Flow Meter 1/4 in Asset ID: S3101 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 Jacksonville, IL
Mass Flow Meter 2" Asset ID: 1450 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 Louisiana
Mass Flow Meter 2" Asset ID: 1959 Micro Motion	Micro Motion Coriolis mass flow meter Model R200S41-4188, Size 2". Serial number 14102359. All wetted parts stainless steel 316L Transmitter is 1700 single variable field mount transmitter with back lit dual line display. Last used in margarine service. Sold As Is but we can recondition for you for extra - ask for a quote. Reconditioning will include cleaning, pressure testing, calibrating to your specifications, transmitter testing, and warranty.	Used - Good Jacksonville, IL
Mass Flow Meter 4" Piping ss (8) Asset ID: 1727 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 Marissa, IL

Instrument/Flow Transmitter — 1 Items

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

Instrument/Level Transmitter		3 Items
Level Transmitter Asset ID: S1210 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 Jacksonville, IL
Level Transmitter XP Asset ID: L215 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 Jacksonville, IL
Level Transmitter, Radar Asset ID: S105 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 Jacksonville, IL

Instrument/plc & HMI		2 Items
AB PanelView 900 Asset ID: H2007 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 Jacksonville, IL
Starter Panel Asset ID: X2037	Starter and I/O panel, 2-door. Spec unknown - last used as 51A	Unrated Mississippi

Instrument/Pressure Gauge		9 Items
Pressure Gauge & Vacuum 0-300 psi Asset ID: G11 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 Jacksonville, IL
Pressure gauge 0-100 Asset ID: G14 Ashcroft	Ashcroft pressure gauge 2 inch dial. 0-100 psig, brass1/4 inch back connection	New, Old Stock Jacksonville, IL
Pressure gauge 0-160 psi Asset ID: G300 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 Jacksonville, IL

Pressure gauge 0-30 psi Asset ID: G13 Ashcroft	Ashcroft pressure gauge 0-30 psig. Brass 1/4" male NPT.	New, Old Stock Jacksonville, IL
Pressure Gauge 0-300 psig Asset ID: G200 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 Jacksonville, IL
Pressure Gauge 0-60 psi Asset ID: G19 Ashcroft	Ashcroft Receiver Gauge 45-1279-AS-04L-LL-60#. 1/2 inch NPT Lower connection, Plus! Performance, 0-60 psi.	New, Old Stock Jacksonville, IL
Pressure Gauge 0-600 psig Asset ID: SJ208 Anderson	Anderson pressure gauge - NEW, in box. Range 0-600 psig, glycerin filled, 2 inch NPT connection. Model EL08201044111A, S/N 0920989. Quantity (2) - priced separately.	New, Old Stock Jacksonville, IL
Pressure Gauge, 0-160 psi Asset ID: 6057 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 Jacksonville, IL
Pressure Gauges, Lot of 7 Asset ID: 6085 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 Jacksonville, IL

Instrument/Pressure Transmitter — 1 Items

Pressure Transmitter Asset ID: S2302 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 Jacksonville, IL

Instrument/Temperature Transmitter — 6 Items

Temperature Probe RTD Asset ID: 2452 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 Jacksonville, IL
Temperature Transmitter Asset ID: 6081 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 Jacksonville, IL

Temperature Transmitter Asset ID: 6109 Foxboro	Foxboro Temperature Transmitter RTT15-T1FLOTXF 0-300 degrees with Thermowell ANSI B16.5 2" 150#. S/N 08264716. Used	Used - Very Good Jacksonville, IL
Temperature Transmitter XP Asset ID: L220 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 Jacksonville, IL
Temperature Transmitters (2) Asset ID: 6123 Foxboro	Lot of 2 used Foxboro RTT15 Temperature Transmitters. 0-200F Qty available (2) - priced separately • Foxboro RTT15-T1FSOTXF S/N 07390754 0-200F with Thermowell SA182 316/316L 2 x 150 BLRF B16.5 NACE SF7168 • 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 Jacksonville, IL
Thermowell 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 Jacksonville, IL

Lab		16 Items
ALM for Particle Size Analyzer Asset ID: 2108 Beckman Coulter	**Aqueous Liquid Module - add-on for Beckman Coulter Laser Diffraction Particle Size Analyzer** Beckman ALM Model 6605638. The Aqueous Liquid Module (ALM) is intended for use with the Beckman Particle Size Analyzer LS 13 320 Optical Bench. It is capable of suspending samples in the size range of 0.017 µm to 2000 µm. The ALM is for • Samples requiring suspension in aqueous systems. • Auto rinsing, auto filling and auto dilution for maximum speed and throughput • Sample sonification for the ultimate dispersion control • When coupled to the Auto Prep Station offers full automation Beckman Particle Size Analyzer is also available - Sold Separately, see Asset 2442	Unrated South Dakota
Balance Scale Asset ID: 8571 Radwag	Radwag electronic analytical balance scale. Max 220g, min 10mg. 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 Product Description: 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. 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 Colorado

Biosafety Lab Hood 4 foot Type B1 Asset ID: 8111 Nuaire	**Biosafety Cabinet Lab Hood Class II Type B1 by Nuaire** • HEPA Exhaust Filter 11-1/2 inch and supply filter 5-7/8 inch - both are 99.99% efficiency on 0.3 microns • Nominal width 4 foot • Inflow fpm 105 fpm, downflow 70 fpm • Touch link control system • Cabinet stainless steel 304L • Includes stand shown in photos Nuaire sterile hood. Series # 66, serial # 181074071917.Manufactured in 2017 and is 115VAC, 60Hz, 1 phase, and 10amps. The NU-427 preserves the Class II Type B1 cabinet's traditional role of serving as an intermediate option between recirculating and total exhaust cabinets but with a control system fit for modern applications. By exhausting air from the entire length of the back half of the work zone through slots in the back wall, this design not only allows users to continue the recommended practice of working "clean to dirty" and deep inside the work zone but also leaves the dished work surface intact to retain spills. This exhaust is powered by an external facility blower that is interlocked with the cabinet's own motor through a redundant system to provide two layers of protection that minimize the risk of blowing air out of the cabinet should the external blower fail: cabinet exhaust is monitored by not only a mechanical pressure switch but also a differential velocity pressure-flow grid. A touch screen displays the readings from both this flow grid and a downflow sensor in the work zone at all times for the cabinet operator. Standard models meet the requirements of the respected NSF/ANSI 49 standard for biosafety cabinets. **Two available (priced separately)**	Used - Very Good Vermont
Cell Counter Analyzer Asset ID: 2441 Beckham Coulter	**Vi-CELL-XR Cell Analyzer** Beckham Coulter Vi-CELL-XR Cell Analyzer. Serial # BCE9142. Analysis time is approximately 2.5 minutes, capacity is single or 12 position via autoloader. 1394 x 1040 digitizing resolution with an imaging technology of auto focus CCD array. Operating system is Windows 98, 2000, or XP. The Vi-CELL Cell Viability Analyzer provides an automatic means to perform the Trypan Blue Dye Exclusion method, allowing users to load up to 10 samples at once for easy and automated cell analysis. Vi-CELL software offers pre-programmed and customizable analysis options for consistent and accurate analysis of simple cell systems or your own cell line. The Beckman Coulter ViCell Cell Counter XR is an automated cost-effective means of determining cell concentrations and viability. This Vi Cell XR is a durable analyzer that is accessible to various skill levels. Performing the trypan blue dye exclusion method precisely and accurately is essential to the production of biopharmaceuticals and research concerning cell and tissue culture applications like recombinant protein. The automated trypan blue staining procedure can also be customized to accommodate complex samples like yeast or simpler systems like CHO cells. The Vi-Cell has a concentration range of 5 x $10^{4 \text{ to } 1 \times 10}$7 cells/mL, with a viability range of 0 to 100%, and can process up to 0.5ml on the 12-position autoloader.	Used - Good South Dakota
Constant Temperature Bath Asset ID: X2028 Polyscience	Polyscience constant temperature refrigerated circulator. Low Profile. (-20C to 135 degree C) with temperature stability +/- 0.07 degree. Reservoir 7 liters (1.85 gallons). 120v. Refrigerant 134A. (215g) Serial 2C17802259. PolyScience Circulating Bath with MX Temperature Controller. It is intended for the precise temperature control of suitable liquids in a reservoir. Extremely easy to use and maintain, it combines design innovation with highly intuitive operation to deliver convenient and versatile liquid temperature control for a wide range of applications. Programmable controller.	Unrated Mississippi

Dissolved Oxygen Analyzer Asset ID: S3205 Mettler Toledo	Mettler Toledo InTap 565 portable dissolved oxygen analyzer. Used. Unit powers up and analyzes. Believe it all works fine but have not tested - just needs calibrating by user	Used - Fair Jacksonville, IL
Lab Centrifuge Asset ID: 1090 Hettich	**Rotofix 46 Benchtop Centrifuge** Rotofix 46 Benchtop Centrifuge. Manufactured by Hettich. Model # 4600-01. **Specifications:** • Maximum Capacity 4 x 290ml • Maximum Blood Tubes 4 x 100ml • Maximum Conical Tubes 4 x 165ml • Ambient Temperature, 4000 rpm 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. Note: one image is a representative catalog photo.	Used - Good South Dakota
Lab Hood, Filtered Asset ID: 2443 Labconco	**XPERT Filtered Balance Systems Lab Hood** XPERT Filtered Balance System With Guardian Airflow Monitor. Manufactured by Labconco. Model # 3950301. serial # 080587564. Power for fan and light Single phase, 115v, 14amp. Contains built in blower and exhaust HEPA filter Containment-enhancing features ensure that potent powders frequently found in pharmaceutical, dry chemical, and industrial hygiene applications are kept away from the operator. • 3 ft wide and incudes stand • No outside ducting required • Accommodate large analytical and micro balances • Intrinsically safe, negative-pressure design • Space-saving design–no separate filtered exhauster is required • Fluorescent lighting	Unrated South Dakota
Lab Refrigerator Asset ID: M16 Marvel Scientific	Marvel Scientific Refrigerator Model 3RWWR, S/N 20130912109H	Used - Good Morristown, IN
Moisture Analyzer Asset ID: 2063 Radwag	Moisture Analyzer Radwag Model MA 50.R. Maximum capacity 50g, heating with IR emitter. Repeatability +/- 0.05% and can read moisture content down to 0.001%. Power supply 100-240 vac 50/60 Hz. Consumption 450W. Physical size 470x380x336 mm, weight 4.8kg pk6020	Used - Good Northern US

Particle Size Analyzer Asset ID: 2442 Beckham Coulter	**Particle Size Analyzer** Beckham Coulter Single Wave Length Particle Size Analyzer. Model LS113 320. 100/120/230/240 volts, 50/60Hz, 100 watts. The LS 13 320 Series offers the highest resolution, reproducibility and unsurpassed accuracy. It is able to measure unknown sample distributions without having the analyst guess the type of distribution mode to preprogram the instrument. Its state-of-the-art, laser-based technology permits analysis of particles without the risk of missing either the largest or the smallest particles in a sample Note: We also have the Aqueous Liquid Miodule (ALM 6605638) for this particle size analyser. Sold separately - see asset 2108	Used - Good South Dakota
Precision Balance Asset ID: M12 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 Morristown, IN
Precision Incubator 4.5 cu ft Asset ID: 1086 Thermo Scientific	**Precision Incubator 4.5 cu ft###** Precision Incubator. Manufactured by Thermo Scientific. Model # 51221093. Serial # 60101079. 4.5 cu. Ft. chamber volume with temperature range of Ambient +5c to 65c. Single phase. 120v, 50/60Hz, 2 Amp.	Used - Good South Dakota
Tablet / Capsule Counter Asset ID: 8573 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. 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 Colorado
Turbidimeter Asset ID: M15 Hach	Hach Laboratory Turbidimeter Model TL2300, tungsten lamp turbidimeter. S/N 2018050C0189. See brochure in Links.	Used - Very Good Morristown, IN
Water Bath Asset ID: M21 Revolutionary Science	Water Bath - Poly ProBath Model RS-PB-100 S/N 062411E4	Used - Very Good Morristown, IN

Lab/Chromatograph & Mass Spec — 1 Items

Gas Chromatograph (2) Asset ID: 5538 SRI Instruments	Two SRI Instrument Gas Chromatographs. Model 8610C. Recently serviced by SRI - Oct 2019 (spent $1,000 each on them to get tuned up to specifications). They have been idle since then. Can hold up to six detectors and five injectors, ambient to 400C temperature programmable column oven. Dimensions: 19"W X 13.5"H x 14.5"D. Most versatile and popular model of SRI GCs. Ambient to 400C column oven. We will provide crates for each and protect for shipping. Will include a few spare columns we still have, and the computer that drove this (no monitor). Qty (2) - priced separately but we offer 15% discount on total if both are purchased.	Used - Excellent Missouri

Machining — 1 Items

Waterjet Cutting Unit Asset ID: 2727 KMT	**KMT Hydrobrasive Waterjet Cutting Unit - Low Hours - Like NEW** Specifically designed for either high pressure pure waterjet cutting and Hydrobrasive waterjet cutting. This sale includes the following: • Streamline VI 40 Intensifier 480v w/ 40 HP pump and starter • IDE Abrasive System Kit 10/30 w Xfer/Feedline V • Nozzles, adapters, tubing kit, HP gauge 100k psi, extended life diamond orifice • Basic spares kit and tool kit The STREAMLINE VI intensifier standard features: • Completely self-contained, minimum-footprint unit with built-in controls and motor starter • Microprocessor control offers intelligent diagnostics • Digital, color touch screen panel with choice of eleven languages • Low voltage (24VDC) internal controls for safety • Standard dual-pressure control to facilitate piercing and kiss cut applications- Standard high-pressure fluid or water leak detection • Variable displacement, pressure-compensated hydraulic pump technology • 60,000 psi design pressure • Exclusive long, slow stroke to minimize cycling fatigue. Electronic reversing • HYPERLIFE seals with superior 4-piece design • Cartridge-type hydraulic seal that can be extracted from the outside to minimize down time • Ceramic plungers. Patented "Quick Plunger Removal" without disassembly of the hydraulic cylinder • Built-in, adjustable inlet water booster pump and filtration system with 10-micron double-length filter • inlet water pressure sensors • High efficiency, heat exchanger in recirculating pump circuit. Conveniently located Dump valve • Enhanced maintenance features includes a separate hour counter, manual piston jog and alarm history • Maximum orifice size .012" Used only for testing. Unit only has 10-20 hours of use. Idle since 2016	Used - Excellent South Dakota

Material Handling		6 Items
Bulk Bag Unloader Asset ID: BBU-108 Camcorp	Camcorp Bulk Bag Unloader Model BHU4000-H, 2000 pound bag capacity	Illinois
Compressor Oil Gas & Process Asset ID: B2096 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 Peoria, IL
Compressor Oil Turbo Asset ID: B2095 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 Peoria, IL

Loadout arm Asset ID: BD-1509 Emco Wheaton	Loadout Arm by Emco Wheaton Size 3/4 Model E2313 with Viton Seals	Illinois
Stainless Steel 55 Gallon Drums Asset ID: 2051	55 gallon drums - stainless steel 304. Approx 11 drums with reinforcing bands, and 10 drums without reinforcing band. Drums have lids. Specify which kind - priced by the drum (minimum order 3 drums). Quantity (21) total. Pk6020	Used - Excellent Northern US
Truck Axle Weigh Scale Asset ID: 8572 Walz	**Portable Truck Axle Weigh Scales** Walz weigh pads (2) plus M6-A indicator panel. Axle Scale Features: • 60,000 lb+ axle capacity axle scale • Pad dimensions: 31.5" X 17" • Quality, durable aluminum construction • Water resistant design	Used - Very Good Colorado

Material Handling/Biomass Handling — 2 Items

Biomass Bale Handling & Grinder System Asset ID: 1710 West Salem Machinery	**Biomass Bale Handling System** • 4 infeed processing lines for bulk bale handling and grinder plus silo and baghouse • Bale size was 3' x 4' x 8' long - processed in modules of 6 (2 bales wide x 3 bales high. • Capacity 465 tons/day x 4 lines - 1,860 TPD. Each line can hold 2 trucks worth of bales prior to the singulator (150 tons total (288 bales). Each line includes automatic singulation, de-stringing, coarse chop of bales, hydraulic power pack, and then grinders. The silo collects "fines" from the operation for disposal. This system fed an ethanol plant, and a biomass boiler/cogeneration system. Ideal for both. Grind size was <1" but screens can be changed to modify grind size. The biomass handling equipment would work perfectly in preparing biomass for a pelleting operation, or for burning in a biomass boiler from the included silo. Or this could be entirely repurposed to your need. Built 2013 - in very good condition. The general layouts and general description of this equipment are attached as links for more detailed information. This system has been removed except for the silo/baghouse system. • See links for drawings and description. • See video of system in links - biomass system starts at 0:57 second mark.	Used - Very Good Kansas

Plug Screw Feeder Asset ID: B-1011 Valmet	**Valmet Plug Screw Feeder with Pre-Compression Screw and Shredder** **These units are NEW old stock, never used** Designed for infeed raw material chips density 100 kg/m3, moisture content 20-48% Design flow rate 530 dry tons per day soft wood chips (500 BDST/D); Max capacity 1000 BDST/D; Turndown rate 50% **Valmet plug screw feeder** • Fed by a pre-compression screw section, and 48" shredder at outlet • 850 HP Siemens motor 1750 rpm 460v 3/60 • Gear Reducer ratio 25:1. Nominal speed 69 rpm, range 35-105 rpm • Skid size approx 25 ft long x 7 ft wide x 4.6 ft tall. Total weight including motor 45,400 lb • Inlet 35.83" x 25.79" **Pre-compression screw** • Materials of construction stainless steel 304L for all contact parts • Sits on top of plug screw at 90 degrees with s 24" diameter- top force feed • 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 • 250 HP motor 1750 rpm 460v 3/60 v-belt drive to gear reducer V-belt reduction 1:52 • Gear reducer SEW Eurodrive ratio 18:1. Final rpm nominal speed 65 rpm, range 45-97 rpm • Overall size approx 15.2 ft long x 7 ft wide x 5.8 ft tall, weight 17,300 lb • Outlet: 35.83" x 25.79" **T-Pipe 48" Shredder** • Fed from plug screw feeder 24" biomass inlet • MAWP 350 psig at 800F • 100 HP motor 1750 rpm 460v 3/60 • Gear reducer 8.9:1 for nominal 197 rpm • Shredder size approx 5 ft x 10.6 ft x 9.3 ft tall, weight 23,650 lb • Outlet 24" flange 600# **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 Georgia, USA

Material Handling/Fork Lifts & Hoists		1 Items
Chain Hoist 10 Ton Asset ID: B2074 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 Peoria, IL

Material Handling/Hoppers & Weigh Scales	3 Items

Base with Load Cells Asset ID: AF3 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 Illinois
Hopper 590cf 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 Illinois
Multi-Head Weigher Asset ID: 8812 JDA Process Packaging	**Multi-head Weigher** 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. Specifications: • Resolution: 1 /100 oz. (1 /10 gram) • Capacity: 1 lb. (500 gram) standard to 5 lb. (2.5 kg) optional • Hopper size: 1.75 cubic feet (50 liters) standard to 12 cu. feet (340 liters) optional • Electrical: 220 volt, single phase, 1 amp, 60 hertz • Air requirements: 60 psi, less than 1 /10 cfm • Speed: 10 - 18 cycles per lane per minute at 2/10% (.2%) accuracy	Used - Good Colorado

Material Handling/Mills & Hammermills		**5 Items**
Fine Grind Air Swept Mill Asset ID: 2037 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 Illinois
Grinding Mill Asset ID: 7770 Sweco	Used Sweco model M60MS Vibro-Energy grinding mill. 62" diameter X 3' high grinding chamber with 316 stainless steel liner and solid 316 stainless steel cover. 2" product discharge. Heating or cooling panels between inner and outer shell. 10 HP, 3 phase, 60 cycle, 460 volt motor.	Used - Good New Jersey
Pin Mill Impact Mill Asset ID: M2002 Sturtevant	**Pin Mill - Centrifugal Impact Mill** 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. 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 California

Pin Mill Impact Mill Asset ID: M2003 Sturtevant	**Pin Mill - Centrifugal Impact Mill** 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. 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 California
Wood Grinder Asset ID: 7444 Arasmith Mfg	**Wood Grinder** Arasmith MFG. Co. - Service No. 34.30.HH.1517.596 14.HT.2ADW/8 HAS2 • Infeed opening 30" x 18" • Powered by 100 HP Lincoln AC Motor, TEFC Energy Efficient, RPM 1765, Frame 405T, Volts 230/460, Amps 226/113, 3 Phase, 60 Hz • 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. • 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. • This grinder was being used to make mulch.	Reconditioned Illinois

Material Handling/Rolling Stock		1 Items
Flatbed Trailer Drop Deck Asset ID: AF98 Utility Trailer Corp	Semi trailer - Drop deck trailer for semi truck. Mfg by Utility Trailer Corp in 1983. Length 45 ft x 96" wide. GVWR 90,000 pounds. VIN 1UY FS2448 EA9783 09.	Used - Good Illinois

Misc		3 Items
Ball Bearing Asset ID: O15 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 Jacksonville, IL
Blowdown Separator for 150 HP Boiler Asset ID: 8802	**BLOWDOWN SEPARATOR** One (1) reconditioned Blowdown Separator designed for the bottom blowdown rate of the 150 HP boilers, built to ASME Code Standards with a National Board stamp. It will be inspected, cleaned, and painted to match the boiler. The blowdown separator will be mounted on support legs. The blowdown separator can be ready to ship in 4 to 6 weeks.	Used - Excellent South Carolina

Throttle screw insert Asset ID: O46 Bosch	Rexroth Bosch 0821201106 Throttle screw insert, pneumatic replacement part. (2) available, priced separately	New, Old Stock Jacksonville, IL

Mixers		2 Items
Mixer Asset ID: AG-110 SPX Lightnin	SPX Lightnin mixer model 14S1, Last used as FD-DE Pre Coat Mixer	Illinois
Mixer Asset ID: AG-213 SPX Lightnin	SPX Lightnin model X5S150 agitator, Last used as Hydrolysis Decanter Mixer	Illinois

Mixers/Blender		1 Items
Ribbon Blender, Double 155 cf Asset ID: 2044 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 Northern US

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

Packaging		6 Items
CD Case Feeder Asset ID: E2363 EAM	CD Case Feeder; pneumatic on turn table; Manufactured by EAM	Jacksonville, IL
Chain Wheel Sprocket, Labeler Asset ID: O50 Krones	Chain Wheel / Sprocket 0002091838 1-703-29-038-0 for Krones labeler	New, Old Stock Jacksonville, IL
Dyna Pack (Hot Glue) Asset ID: 6150 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 Illinois

Reject Station Asset ID: E2360 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.	Jacksonville, IL
Reject Station Proximity Switch Asset ID: E2361 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	Jacksonville, IL
Shrink Tunnel Asset ID: E2355X 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.	Jacksonville, IL

Packaging/Bag Inserter — 1 Items

Bag Inserter Asset ID: 5978 Pearson	Pearson bag inserter - uses poly roll bags. Built 2001. Set up for 50# cube 12" x 12" x 12" box but can be adjusted. Built 2001. Believed to be Model BI-18. Size range L 9.5-24", W 9.5-17", H 10-24". Serial number 200119289647, 3HP 460/3/60. Built 2001. Idled early 2017. 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. Removed, stored, ready to ship. Part of a complete 50# cube filling line. For a list of all components for this line - enter "5976cube" in search box.	Used - Very Good Jacksonville, IL

Packaging/Capper — 1 Items

Capper and Torquer Asset ID: 8562 SureKap	**SureKap Capper and Torquer with 3 conveyors.###** Fully automatic straight line six-spindle capper capable of running up to 90 caps per minute depending on cap diameter. Max cap size 48mm. Machine is idle now but was running 22mm dropper caps. Manual available	Used - Good Conifer, Colorado

Packaging/Case Erector — 1 Items

Case Erector Asset ID: 5977 Pearson	**Pearson Case Erector** 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 • Model CE-235 serial 200102359572, machine number 9572 • Rated speeds up to 35 cases / minute. • Feed from right to left when standing in front of machine name and electrical panel • Includes Probilt hot melt glue system, part No. D100-644, serial No. 3551211272 • Was erecting KD cases for 50# cubes 12" x 12" x 12" but can be adjusted. • Case size range: Can adjust to handle cases from 5 to 30" long, 5.5 to 16" wide and 3.5 to 24" tall • Driven by 1.5 HP motor 460/3/60 • In warehouse - ready to load 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 Jacksonville, IL

Packaging/Case Sealer		2 Items
Case Sealer Uncuffer Asset ID: 5980 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 Jacksonville, IL
Case Sealer/Taper Asset ID: 6155 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 Illinois

Packaging/Coder		1 Items
Ink Jet Coder Asset ID: 6158 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 Illinois

Packaging/Conveyor		1 Items
Accumulation Table Asset ID: 8560 Right Stuff Equipment	Accumulator table for packaging bottles or cans. 36 inch diameter rotating table stainless steel with teflon guides, motor drive underneath with VFD speed control 120v single phase	Used - Good Colorado

Packaging/Filler - Liquid & Viscous	3 Items

Filler - 4 Head Stainless Asset ID: 7621 Shambaugh & Sons	**Bulk viscous material filler - 4 head** 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 Jacksonville, IL
Filler, Viscous Fluid 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 Jacksonville, IL
Pail Filler, Liquid - Stainless Asset ID: 7622 Neupak Weigh Master	Neupak Weigh Master Pail Filler, 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 Jacksonville, IL

Packaging/Metal Detector — 2 Items

Metal Detector Asset ID: 6152 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 Illinois
Metal Detector Asset ID: 5072 Eriez Manufacturing Co.	Eriez Flow Through Metal Detector. Model EZ-DSP7.25LPVR, Style 9911198. Serial #191777 Approximate 6” diameter tube with diverter valve. Mounted on a stainless steel frame	Unrated Illinois

Packaging/Packaging Line — 2 Items

50 lb Cube Filling Line - stainless Asset ID: 5976	Filling line for 50lb cube boxes - 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 shortening filling. Rate was between 5 to 8 cases per minute depending on viscosity (if filling 50# boxes, rate would be 24,000 #/hr). Includes Pearson case erector for LH KD cases, Pearson bag inserter using roll bags, stainless 2-spout filler on Mettler Toledo load cells, and SV Dice uncuffer case sealer (missing plc and hot melt unit). Includes interconnecting conveyors. Line built 2001 - ran until early 2017. Stored in warehouse, ready to load. See marketing flyer. 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 Jacksonville, IL

Tincture Bottle Filling Line Asset ID: 8330 China	**Tincture Filling Line** Complete tincture filling line for bottles of liquid. For 15ml and 30ml sizes (running 0.5 oz and 1 oz Boston Round Bottles). • Includes feed & offtake tables, dual station filler with capper Model FC-4100, labeler Model LR3000. HMI touchscreen controls. • Speeds from 20 bpm to 30 bpm • Can run other sizes if they fit under filling nozzle • Four filler wheels (large white stars shown in photos) included for various bottles - Other change parts can be ordered from US supplier if your bottle is different Made in China but sourced from DupreSolutions in Vermont who also serviced the line. Please see the manual in Document Link. Used very little - in excellent shape	Used - Excellent Vermont

Packaging/Vertical Form Fill		3 Items
Bartelt Form Fill Seal Packager Asset ID: 6125 Bartelt HMC	**Bartelt Form Fill Seal Packager** • Model RH IM 7-12 (7 inch-12 station) w/All Fill B 350E auger filler • E.M.P. registration control unit • Equipped with side seal embossing and mechanical hole punch • Machine No. 580 • Idled in 2018 - still installed in protected area. We will remove and load for no charge 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 Illinois
Bartelt Form Fill Seal Packager Asset ID: 6126 Bartelt HMC	**Bartelt horizontal form, fill, and seal Packager** • Model RH IM 6-7 (6 inch-7 station) w/B Filler • Tritronics registration unit (Color Mark II, Model CMS 2B) • Last ran 60 packages per minute on 1-gram fill • Machine No. 336 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 Illinois

Vertical Form Fill Machine VFFS Asset ID: 1085 Prodo-Pak	**Like New Vertical Form Fill & Seal Machine (VFFS)** by Prodo-Pak. Tested - never used in production. VFF. • One Model 4S 3P 320 line 3-lane with Laser etching printer. Fill rate at 150 to 180 pouches/minute. Machine Size 7.5 ft x 7.5 ft x 9 ft tall 5,000 pounds • Fill volume 1.0 to 3.0 ml. Pouch width 1.5 inches, pouch length 3.0 inches • 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. Includes the following additional pieces: • Pump skid 80 inch x 48 inch x 60 inch tall 600 pounds • Video Jet laser printer 7 ft x 7 ft x 77 inch tall 700 pounds. • Video Jet fumes extractor 4 ft x 4 ft x 5 ft tall 300 pounds. See LINKS for specifications.	Like New New Jersey

Piping		**4 Items**
Flow Regulator Asset ID: O21 Eaton Dole	Eaton Dole Flow regulator Model GX 12.0 gpm	Unrated Jacksonville, IL
Quick Connect Female 1/4 Asset ID: 5422 Speedaire	Speedaire Coupler body 1/4 FNPT 30E653	New, Old Stock Jacksonville, IL
Quick Connect Male 1/4 Asset ID: 5421 Speedaire	Speedaire Coupler body 1/4 MNPT 30E655	New, Old Stock Jacksonville, IL
Relief Valve, Hydraulic Cartridge Asset ID: O13 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 Jacksonville, IL

Piping/Ball Valve		**17 Items**
Ball Valve Asset ID: 8140 SVF	4 inch Stainless Steel Flanged Ball Valve. SVF Class 300	New, Old Stock Pennington Gap, VA

Ball Valve 1 1/2 inch Asset ID: 6063 SVF	SVF Fluid Control Inc Flanged Ball Valve B416ATR3P 1 1/2 inch - 150 CF8M	New, Old Stock Jacksonville, IL
Ball Valve 1" Asset ID: 5401 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 Jacksonville, IL
Ball Valve 1" Asset ID: 5403 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 Jacksonville, IL
Ball Valve 1" Asset ID: S1208B 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 Jacksonville, IL
Ball Valve 1" ss316 Asset ID: 6055B SVF	SVF Ball Valve, 1 inch 316 stainless steel ball valve. S/S Center section ONLY with TFM Seat & TFE Body seals. Standard port R86066AT10. New, old stock. Still in plastic bag. Dated 4/7/11. Does not include the end. Multiple Quantites, priced separately	New, Old Stock Jacksonville, IL
Ball Valve 2" Asset ID: 2451 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 Jacksonville, IL
Ball Valve 2" SS Asset ID: 5744 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 Jacksonville, IL
Ball Valve 3" ss Asset ID: 2453 Flow Tek	Flow Tek RF15 316 Ball Valve 3 inch flanged	Used - Good Jacksonville, IL
Ball Valve 3/8" Asset ID: S1305B Sharpe	Sharpe 50M76 3/8" ball valve. 1000 CWP CF8M.	Used - Very Good Jacksonville, IL
Ball Valve, 1 inch Asset ID: 6105 Apollo	Apollo Ball Valve, 1 inch. 72-105-01. Body, Stem, and ball A108. Seat RPTFE, Pkg MPTFE.	Used - Very Good Jacksonville, IL
Ball Valve, 1 inch Cenrter Asset ID: 6055 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 Jacksonville, IL
Ball Valve, 1 inch ss Asset ID: 6099 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 Jacksonville, IL

Ball Valve, 1/2 inch Asset ID: 6069 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 Jacksonville, IL
Ball Valve, 1/2 inch Asset ID: 6076 Sharpe	Sharpe ball valves. WC8 1000 CWP, 1/2 inch. Used - 4 available, priced separately.	Used - Good Jacksonville, IL
Ball Valve, 1/2 inch Asset ID: 6106 SVF	SVF Ball Valve, 1/2 inch, NPT female ends R84466ATSE. 1500. Threaded connections FNPT. Used.	Used - Good Jacksonville, IL
Ball Valve, 3/4 inch Asset ID: 6104 Sharpe	Sharpe 3/4 inch ball valve. CF8M, 1000 CWP. New, old stock	New, Old Stock Jacksonville, IL

Piping/Butterfly Valve — 2 Items

Butterfly Valve 3 inch Asset ID: 6048 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 Jacksonville, IL
Butterfly Valve 40" Asset ID: 1726 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 Marissa, IL

Piping/Check Valve — 7 Items

Check Valve 3/4" Asset ID: O9 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 Jacksonville, IL
Check Valve, 1 inch Asset ID: 6051 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 Jacksonville, IL
Check Valve, 1.5 inch Asset ID: 6052 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 Jacksonville, IL
Check Valve, Swing Wafer Asset ID: 6103 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 Jacksonville, IL

Swing Check Valve, 1 inch Asset ID: 6079 Sharpe	Used Sharpe Swing check valve, Size 1 inch with 1" threaded FNPT connections. CF8M, 200 W. P.	Used - Good Jacksonville, IL
Swing Check Valve, 1 inch Asset ID: 6065 Sharpe	Sharpe 1 inch cast stainless steel swing valve. W.P. 200 psig. Body CF8M, Disc 316.	Used - Very Good Jacksonville, IL
Swing Valve, 3/4 inch Asset ID: 6066 Sharpe	Sharpe 3/4 inch Swing Valve. 200 W.P. Body CF8M, Disc 316, Fig 20276. New, old stock.	New, Old Stock Jacksonville, IL

Piping/Gate Valve — 2 Items

Gate Valve 16" Asset ID: 6595 Fairbanks	Fairbanks 16" gate valve. New. Figure No. 0405. 150 WOG	Used - Good Grant City, MO
Gate Valve, 1 inch Asset ID: 6064 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 Jacksonville, IL

Piping/Knife Gate Valves — 3 Items

Knife Gate Valve 20" Asset ID: B2077 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 Peoria, IL
Knife Gate Valve 30" Asset ID: B2079 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 Peoria, IL
Knife Gate Valve, 30" Asset ID: 6122 Metropolitan Valve Inc.	One (1) 30" pneumatic stainless steel knife gate valve, new surplus (unused).	Unrated Minnesota

Plants/Biodiesel — 7 Items

Biodiesel Plant 10 MGY Asset ID: PK-2800	Continuous Biodiesel Plant rated at 10 MGY for sale as a complete Asset Sale. Ready to Run - very little CapEx needed. Sale includes 6.7 acres land and buildings approximately 9600 sf under roof. Includes truck scale, loadout system, (10) tanks for 330,000 gallons + process tanks. Equipment and systems are maintained and ready to start, trained plant manager on site. Power and all utilities have remained on and plant has been maintained since being idled. Ready to start immediately. Continuous design with all new or renewed equipment. All stainless steel construction including piping. (except reactors). Brand new Goulds pumps and glycerin distillation system. Automatic operation through Allen Bradley plc and HMI control. No rail on site but there is a spur rail next door fed by Norfolk & Southern. Will require a renovation of existing track. The plant can handle RB and clean oils to 3% ffa. Plant was built in 2007, sold and completely renovated in 2016, operated until 2018 when idled. It has also had limited runs in May-June 2022.	Used - Excellent Moberly, MO
Biodiesel Plant 15 MGY Asset ID: PK-5200	**Biodiesel Plant 15 MGY** Biodiesel plant with nameplate rating at 15 MGY (million gallons per year). Was designed to run soybean oil and was in operation on crude degummed oil. Complete plant is available - must be relocated. Does not include electrical. The entire plant is inside in a protected building except for the methanol distillation column. Allen Bradley plc controls. Still installed. Plant never met nameplate capacity but average rate was between 6 to 8.7 MGY. In operation from 2020 to late 2021. Includes all in-process tanks, The 18 outside storage tanks are available on Asset 2365 and Asset 2366. We have details and drawings in our Virtual Data Room (VDR) - available upon invitation. • (3) biodiesel reactors • (3) horizontal settling tanks • Glycerin coalescer distillation column • Biodiesel coalescer distillation • MRU methanol recovery unit distillation column & system • Cold soak filtration system - Vertical pressure leaf filter and (2) plate and frame filters including slurry and earth handing systems • (2) Hydrasep oil water separators • Air compressors, pumps, heat exchangers • Allen Bradley controls, HMI	Used - Good Greenwood, MS
Biodiesel Plant 15 MGY Asset ID: 7410 Greenline	**Biodiesel plant rated for 15 MGY (million gallons per year)** • Complete plant including land, rail siding, rail & truck loading, 13 tanks. • Rail ties to BN on one end and UP on other end - BN does the switching. • Two separate complete biodiesel trains capable of operating independently on different feedstocks - a 5 MGY system and a 10MGY system. • All electrical, lab, utilities, and auxiliaries. • All automatic - Allen Bradley plc controls and HMI • Can be run in place. If moved, removal is extra • Land size is approx. 6.52 acres. Plant is a Greenline design capable of running multi feedstocks. It ran animal fat during its production. The 10MGY train was added new in 2008 - plant was idled in 2010, then ran again in 2018 and 2019. Now idle. Much more information available in our Virtual Data Room (VDR). Please ask for an invitation. This plant can be used as a terminal - has 12 rail spots, 2 truck spots, and 1.4 million gallons of storage	Used - Good Missouri

Biodiesel Plant 15 MGY Asset ID: PK-2620	**Biodiesel Plant nameplate capacity 15 MGY** 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. 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. Note: This is not a complete plant - some equipment has been removed. Details will be in the Virtual Data Room (VDR)	Unrated Southeast
Biodiesel Plant 3 MGY Asset ID: PK-1900 Greenline	**Biodiesel Plant - 3 MGY (million gallons per year)** Manufactured by Greenline, this plant ran cottonseed oil in a continuous flow, water free, transesterification reaction and separation modules. • On skids and includes in-process tanks. • Fully automatic with plc control; all controls are still there and intact except for the HMI. • No tank farm • No air compressor • This plant was just inspected by the manufacturer in Dec 2021 and all pieces are still there except for some water piping. • 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. • Plant must move. • Approx space is occupies now is 75 ft x 100 ft 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 Texas
Biodiesel Plant 5 MGY Asset ID: PK-2200 Greenline	Greenline 5 MGY plant complete. 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, NOTE: This is an orderly negotiated asset sale - all assets must move. Land and buildings are not included. Tanks are not included.	Used - Very Good Hayti, MO
Biodiesel Plant 5 MGY Asset ID: PK-1777 Jatro Renewables	Biodiesel Plant nameplate capacity 5 MGY (million gallons per year). Design is super critical reactor type, developed by Jatro Renewables. This design technology allows this plat to handle very dirty high ffa feedstock while operating cheaper than a conventional catalyst biodiesel plant. No toxic catalyst. Output biodiesel is much clearer than conventional biodiesel. See our marketing deck for lengthier explanations. No license fees. All assets are for sale as an entity - must be relocated. All structure included - building is not included. Includes lab equipment. See Marketing Deck general arrangement in Link. Operated from Nov 2015 to 2019 - now idle.	Used - Very Good Illinois

Plants/Biodiesel Distillation — 1 Items

Glycerin & Methanol Distillation Plant Asset ID: PK-3600	**Glycerin and Methanol Distillation Plant** This plant is designed to cleanup off-spec glycerin and methanol from mainly the biodiesel plant operations of others. The plant was previously a 5 MGY biodiesel plant but was repurposed into a distillation cleanup plant in 2019. Idled in early 2025. This sale includes all assets and equipment, land, buildings. **Capacity and Capability** 3 distillation column systems • 190,000 gallons of glycerin, 56,000 gallons of reclaimed methanol, and 50,000 gallons of fats/oils per month • Railcar trans-loading facility for the loading and unloading of about 200 liquid tanker cars and hopper bottom railcars. **Includes** • 3 distillation / stripper columns stainless steel. One packed column and two tray columns • Buildings 17,396 Sq. Ft. under roof. Process building 15,296 Sq. Ft. Processing/Production Building, and 2,100 Sq. Ft. Mezzanine overlooking Production • Lot 24,521 Sq. Ft. Zoned M-2 Heavy Industrial • Tanks total (27) in tank farm and process. Tank farm has (11) tanks at 12,000 gallons each. Approx capacity of all tanks is 302,000 gallons. See equipment list • City Utilities and Fire Sprinkler System **Plant Purpose** The Keokuk glycerin processing line was chosen with the goal of becoming the “go-to-guy” for raw glycerin coming out of the mid-south and the IL/MO/IA area. Processed glycerin can flow to local dairy farms as feed via truck and with access to rail via the KJRY railroad – coal mines in the East and West as an anti-freeze agent. The processed vegetable oils are being sold to nearby feed mills while the distilled methanol is sold back to nearby biodiesel plants to complete the recycling loop.	Unrated Iowa

Plants/BioRefinery and Edible Oil — 2 Items

BioRefinery Plant 200 TPD Asset ID: PK-2610	**Bio Oil Refining & Pretreatment Plant 200 TPD (18 MGY) - OR - Biodiesel Plant** **Stainless Steel Plant** Plant is still in operation. The plant (originally a stainless steel biodiesel plant), has added capability to clean up vegetable oil by refining for the renewable diesel industry, and by using enzymatic hydrolysis to create fatty acids. Most of process is stainless steel. Information and photos available in Virtual Data Room (VDR) - please ask for invitation. ***Includes*** • (5) 7000 gallon ss reactors • (2) 2500 gallon ss reactors • (2) 22,000 gallon ss reactors • Glycerin evaporative dryer • Methanol Distillation rectifier column • 240,000 gallons of tank storage • Rail Access (direct Norfolk Southern) • 26 acres of land - plant is on 5 acres fenced, rest is for expansion This plant is currently operating and is set up very well to refine and clean up oils for other value added products such as renewable diesel. It can handle any lipid including animal fats. SEE Marketing Deck and Virtual Tour in Links below. ***Overview*** • This plant started acid esterification and transesterification biodiesel production in 2006 demonstrating capacity of approximately 14MM GPY on multi feedstocks, chosen based on economics of each at the time. Feedstocks included UCO, poultry, animal fats, soy and corn oils. Purchased specs were 15 % FFA , 2 % MIU, 1 % Moisture MAX. Finished biodiesel product met or exceeded ASTM D6751 • In 2022 the facility switched to enzymatic hydrolysis of soybean oil for the production of Fatty Acids operating at 10 gpm, and later to pretreatment of feedstock up to 18MM GPY. Soybean oil was purchased as a crude degummed specification and produced as produce Fatty Acid and pretreat feedstocks for use in Renewable Diesel facilities.	Used - Very Good Rome, GA

BioRefinery Plant 550 TPD Asset ID: PK-2600	**Bio Oil Refining Plant 550 TPD - OR - Biodiesel Plant 50 MGY** **On Mississippi River with Dock** • This plant has been recently idled - essential personnel are still there. • Land is on the Mississippi River with dock and 2.6 million gallons of storage. • 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. ***Includes*** • 2.6 million gallons of tank storage (62,000 bbl) • Barge dock on Mississippi River • Automatic with PLC controls • Full Lab • 53 acres of land • Rail access (CN) ***Overview*** • 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. • 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 • In August 2023, production ceased and the plant was shut down. Critical operations team still in place.	Used - Good Natchez, MS

Plants/Crush & Edible Oil		3 Items
Canola Crush Plant 48 TPD Asset ID: PK-1400	**Canola Crush Extraction Plant 48 TPD** **Complete cold-press mechanical crush plant with (4) Contrade ET 6160 oil presses at 500 kg/hr each** 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. See Equipment List in Links for details	Used - Good Ontario, Canada

Crush Plant 150 TPD + Refinery 50 TPD Asset ID: PK-2400	**Crush Plant 150 TPD --- RBD Refinery 50 TPD** 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. See flyer brochure and video walkthrough in Links.	Used - Fair New York
Crush Plant, Mobile 40 TPD Asset ID: PK-6040	**Crush Plant - Mobile. Capacity 40 TPD** **Crush Pant in a Trailer - ready to roll** Capacity 40 TPD or 3600 pounds per hour mobile mechanical pressing/crushing plant built into semi-trailer. This unit has very few hours. Built June 2020 and ran until Aug 2021. The Processing unit extrudes and presses soybeans (or oilseeds) into soybean meal and oil. It is an operational self-contained unit with process controls in a 53' van trailer. • The unit has 2 InstaPro extruders model 2000R 4-head 100HP with soft start control panel, 2 Henan 20 ton presses model 6 YL-165 with 50 HP motor, a Tumble Cooler cooling drum 4' dia x 8 ft long with cyclone and airlock, Lonestar roller mill 6x8, oil recycling system, poly oil storage tank 1600 gallons, HMI touch screen controls with RS232 interface and data logging, and Walder oil foots recycle system conveyor and drive • 2000 Kentucky semi trailer 53 ft step deck, insulated (tractor nor included) • Power: 480 volt 3-phase 60 Hz for a connected load of 350 HP total; can use Generator or Grid power. Sheds and silos shown are not included See flyer with Equipment List in Links **Overview:** The extruders are in the rear of the trailer, presses in the middle, then the cooling drum and roller mill going forward. Soybeans drop into the extruders from the top of the trailer. The meal exits the side after the roller mill. The oil storage tank is in the front of the trailer. Oil can be pumped straight out the side to a tanker or to the front storage tank. The storage tank was used in the winter and pumped straight into the tanker in the warmer months.	Used - Good North Dakota

Plants/Essential Oil & CBD — **1 Items**

Oil Extraction System, Butane 1 TPD Asset ID: PK-6030 SH Capital Holdings	**Hydrocarbon Butane Natural Oil Extraction System** 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. • Batch Process designed for 1000 lbs of hemp per run lasting 6 to 8 hours. • (3) butane process pressure tanks 420 gallon horizontal insulated. ASME MAWP 250 psig at 100F with water jacket MAWP 15 psig. • Chiller 10 tonR. Temtek BCD-10A air cooled water chiller. Motor 10 HP, refrigerant R-410A • Alfa Laval plate heat exchanger 84 sf, model M6-Base • Shell and tube heat exchanger Alleghany Bradford, MAWP shell/tube rated at 150 psig at 350F • Rosedale ss cartridge filter, model SAN830 • Delta T Systems glycol cooling controls, Model EUW-36E. Heater 36 kw, pump 1.5 HP 230v 3/60 • (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. • Transformer 75 kva MGM. 3-phase 480v to 240v/120 CT • Process pump, piping • Most equipment is Like New - Purchased new in 2020. See equipment list We have many photos of this system. Please ask for an invitation to our VDR (Virtual Data Room) to view.	Used - Excellent California

Plants/Grain Milling — 1 Items

Grain Milling Plant Asset ID: PK-5106 Agrex S.p.A	**Grain Milling Plant** 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. Stored in a protected warehouse. 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). ***Very Good Condition. Ran less than 1000 hours - Fully Automated*** Equipment is removed, in a warehouse, and ready to load. **Major Equipment** --> See Equipment List in Documents • Loading hopper • Grain seed cleaner sieve • Destoner • Degerminator • Classifier • Blender • Byproduct collecting beam and filter • Rolling mills • Purifier and filter • Grits and flour transport line • Pneumatic clamp tissue tightener **Operation** • Very low hours: Less than 1000 hours. (Paint is still on the augers) • Built 2008, ran through mid 2010 • Briefly started again in 2013/2014 but never was operational - idled again • Started again in 2022 to check out operation. Ran some corn to verify good working condition • No major issues known	Used - Excellent Illinois

Plants/Hydrogen		**7 Items**
Hydrogen Gas Plant 25,000 scfh Asset ID: 5350 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 Mexico

Hydrogen Gas plant 50,000 scfh Asset ID: PK-1717 Hydro-Chem	**Hydrogen SMR Plant 50,000 scfh** 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 Texas
Hydrogen Gas Plant 80,000 scfh Asset ID: PK-6009 Hydro-Chem	**Hydrogen SMR Plant 80,000 scfh** 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). Photos show as it was installed - now removed and stored at a warehouse - ready for loading	Used - Very Good Texas
Hydrogen Gas Plant 90,000 scfh (Partial) Asset ID: 6530 HydroChem	**Hydrogen Generating Plant (partial)** • 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. • Reformer can be fired on natural gas or propane - same burner. • Waste heat boiler generating 3,000 to 5,000 #/hr export steam at 250 psig. • PSA plant (4 psa vessels replaced in 1998) with Jamesbury valves kept up to date, Quench pot design. • Plant is missing small natural gas compressor, heat exchangers, and pumps. • Has new tubes, new reformer, and new shift converter catalyst. • Five (5) spare tubes available. 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 Nebraska

Hydrogen PSA System 1.3 MMSCFD Asset ID: 7251 Honeywell	**PSA System (pressure swing adsorption)** **New, Never Installed** • Built by Honeywell UOP in 2023 - New, never installed. • Rated at 1.3 MMSCFD (million standard cubic feet per day). OUTPUT 1,534 Nm3/Hr. INPUT 2.05 MM SCFD • PSA adsorber vessels rated at 235 psig at 34F / 168F. There are 5 PSA Vessels • Plant footprint is 50 ft x 17 ft. • Allen Bradley 1756 PLC control system. • Two years of operation spare parts available. • Unused Adsorbent available. 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%. **Technical Specs and Drawings on Request**	NEW Texas
Hydrogen PSA System 7 MM SCFD Asset ID: PK-5107	**PSA system (pressure swing adsorption) NEW, Never Operated** • Built by UOP in 1997 - never put in service. • Rated at 12.1 MM SCFD flowrate infeed, 7 MM SCFD product output • Hydrogen purity 99.9% • System pressure 310 psig feed, Adsorber Vessels rated to 345 psig - 4 bed design • Supply is Surge tank V-700 and (4) adsorbers and valve/piping skid • Valves are Valtec • 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 See Links for P&ID and Arrangement. We have manual on request	New, Old Stock Alberta, Canada
Hydrogen PSA System 750K scfd Asset ID: PK-5103 HydroChem	**PSA system (pressure swing adsorption)** • Built by Hydrochem in 1998 - never put in service. • Rated at 750,000 scfd (standard cubic feet per day) = 30,000 scfh. • This is an 8-bed design using Valteck valves. • Vessels all are ASME pressure vessels MAWP 270 psig at 150F. • 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 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% 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 New York

Prep Oilseeds		4 Items
Dehuller Asset ID: 2344	**Impact Dehullers** 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 4000 lbs/hr each. Direct drive by 3 HP motor 1100 rpm 460v 3/60. Idled in 2021. Five gray hullers are identical, the one tan dehuller has bottom down-slopes that are a bit wider. 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 incude grader underneath. Qty (4) - priced separately. We can sell these singly or make a package deal.	Used - Very Good Winnipeg, Canada
Grader Drum Screener Asset ID: 2346 Triple S Dynamics	Triple/S thickness graders - drum screener. Idle since 2021. We have 5 total - priced separately • (3) are Triple/S Dynamics Model E50-1R, serial # CS.7629,7627,7630 (single drums approx 18" dia) • (1) double screen Triple/S Dynamics E50 double screen grader • (1) T50 grader. 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 Winnipeg, Canada
Gravity Separator Asset ID: 2345 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 Winnipeg, Canada
Roto-Shaker Screener Asset ID: X2102 Andritz Sprout Bauer	Andritz Sprout Bauer Roto-Shaker Screener, Model 6x14, serial 1997-00199. Has 16" inlet/outlet and 3 screens. Motor 10 HP.460v 3/60. Physical size approx 21'-6" long x 7'-1" wide x 57" tall. Capacity up to 35 TPH (tons/hour) depending on product fed into the shaker. The industrial model Rota-Shaker is equipped with heavy-duty, segmented screen frames of carbon steel or stainless steel construction. The unit is designed with a spring-tensioned, hook-strip screen attachment, which provides a taut surface for increased screen life and greater efficiency, and allows screens to be retightened after use.	Unrated Mississippi

Presses		1 Items
Fiber Filter Asset ID: 2118 Vincent	**Vincent Fiber Filter Sludge Press 300-1500 gpm** 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) 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. 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 Washington

Presses/Dewatering		1 Items
Dewatering Screw Press CP-4 Asset ID: 2353 Vincent	Vincent Compact Press Model CP-4 • Continuous dewatering press. Graduated pitch, interrupted flight screw to maximize dewatering. Final pressing is controlled by a discharge cone • Capacity 150 to 500 lbs/hr (0.5 to 1 tpd) • 1.5 HP motor 230/460 3/60 - includes VFD • Model CP-4, serial number 19019-1 • All contact parts ss304 • Screen: The press is supplied with a single piece stainless steel wedgewire screen, with slots that are ~0.006" wide. It has stationary resistor teeth to prevent co-rotation • Compression Screw: The 4" diameter screw with four stages of compression features interrupted, reducing pitch flights. This design allows the press to accept variations in input volume and consistency without adjustment. • Last used for food grade hemp/biomass. See manual and product specs in LINKS. Very few hours - close to 85 total. **This press has been removed and is crated for shipping Wood has not been fumigated and does not meet ISPM15 rules for international shipping). - Ready to load and ship.** Size 40 x 84 x 62 in tall, weight 1154 pounds	Used - Excellent Tennessee

Presses/Expander		2 Items
Expander 4.5" Dox Hivex Asset ID: 1068 Anderson	Anderson Expander Expeller 4½" DOX/HIVEX with high shear choke. Slotted wall, pilot expander capacity approx 24 to 34 MTPD. Serial number 11665 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). 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 Sioux City, IA

Mechanical Dry Expander Asset ID: 7208 Anderson	**Anderson 8" Dox Dry Expander** **RECONDITIONED** **Capacity 2 tons per hour of soybeans (35-50 MTPD)** • New 9' x 6' variable screw feeder with 2HP motor. • "dog-Leg" chute assembly with 2 stainless steel 10" wide permanent hinged plate magnets. • 8" 3-piece barrel design barrel with 3 rows of new breaker screws and support legs. • Thrust spindle rated for 200HP motor. • Segmented main worm shaft assembly. • Cone choke assembly. • Refurbished 200HP motor and v-belt drive with safety guard. • All electrics are 3 phase / 60Hz / 460 volts. • No control panel or motor starter are included.	Reconditioned Texas

Presses/Expeller		6 Items
Expeller Oil Press 17 TPD Asset ID: 8420 Goyum	**Goyum Oil Press Expellers (2)** Goyum Oil Press Expeller. Model G-150, rated at 15-17 MTPD (metric tons per day) capacity. Press only - no motor or conditioner (sized for 40HP motor). One Unit has a crammer, one does not. Reconditioned Approx 2020 for a project but never started. Has sat idle, outside under tarps since 2023 Shaft turns, and bearings and gears show no sign of wear. Last running soybeans. Two available, priced separately.	Unrated Indiana
Press 60 to 95 MTPD Asset ID: 5450 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 Wisconsin

Press, Oil Press 60-150 TPD Asset ID: 1466 Goyum	**Goyum Oil Press Model G-1500** This model has been designed in a simple and symmetrical shape. Used as expeller or press. Ser no. 512 with 180HP ABB motor. Built 2007. • Capacity: 140 to 150 Ton (In 24 Hours) in pre-pressing and 50-60 Ton in Single & Final crushing (Capacity differs with material density & quantity of oil in it.). • Triple Reduction Gear Box with helical gears of cast steel and pinion shafts of special steel. Gearbox is aligned with all the bodies on a single fabricated base. • This expeller has Three chambers of Cast Steel, vertically hinged. Each of 36" long. • Cake thickness can be adjusted on running Machine. • Worm Assembly, discharge ring, compression ring are all hard faced welded. • Main Worm Shaft can be withdrawn without disturbing the Gear Box. The shaft is water cooled. • Crammer Shaft for extra cramming of the Seed or Cake in the feed body is completely supported on Bearings. Overall Machine Dimensions approx Length:3550 mm, Breadth:1300 mm, Height:3600 mm (including motor for kettle gearbox)	Used - Very Good Iowa
Press, Oil Press 60-150 TPD Asset ID: 1470 Goyum	NEW, never installed. Goyum oil press Model G-1500. Capacity: 140 to 150 Ton (In 24 Hours) in pre-pressing and 50-60 Ton in Single & Final crushing (Capacity differs with material density & quantity of oil in it.). This model has been designed in a simple and symmetrical shape. Used as expeller or press. Ser no. 512 Has NO Motor. (Designed for 180HP). Built 2007. Triple Reduction Gear Box with helical gears of cast steel and pinion shafts of special steel. Gearbox is aligned with all the bodies on a single fabricated base. This expeller has Three chambers of Cast Steel, vertically hinged. Each of 36" long. Two of the 3 cage assemblies have been removed. Cake thickness can be adjusted on running Machine. Worm Assembly, discharge ring, compression ring are all hard faced welded. Main Worm Shaft can be withdrawn without disturbing the Gear Box. The shaft is water cooled. Crammer Shaft for extra cramming of the Seed or Cake in the feed body is completely supported on Bearings. Overall Machine Dimensions (Approx.) Length:3550mm, Breadth:1300mm, Height:3600mm (including motor for kettle gearbox)	New, Old Stock Iowa
Screw Press 60-70 TPD Asset ID: 8403 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 Ft. Worth, TX
Screw Press, Sprout Bauer 100 tpd Asset ID: B2107 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 (3) presses - priced separately	Used - Good Peoria, IL

Process **9 Items**

Cooling Tower 757 TonsR Asset ID: CT-1004 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	Illinois
Diesel Blending Skid Asset ID: BD-1508	Killark diesel Blending skid, with 1/2 HP Motor NON 56T17G15520A P	Illinois
Exhaust Hood Asset ID: E2364	Exhaust hood Dimensions: 76"W x 61"D galvanized	Jacksonville, IL
Exhaust hood Asset ID: E2366	Exhaust hood 72"W x 56"D galvanized	Jacksonville, IL
Flash Dryer Asset ID: F-63 Mason Mfg	Flash Dryer. Mfg by Mason Mfg. Shell MAWP 14.7 psi @ 572F, MDMT -20 F @ 14.7 psi. S/N 16-6692	Illinois
Transesterification Skid 3rd Stage Asset ID: X2085	This skid is named "Plant 5" in IKA drawings. See GA and ISO in Links.	Unrated Mississippi
Transesterification Skid Primary Asset ID: X2083	Reactor skid for transesterification of oil for biodiesel. Used for 1st stage transesterification. Missing all IKA shear pumps and mixers. Still has 3 mass flow meters. Primary skid. This skid is named "Plant 3" in IKA drawings. See GA and ISO in Links.	Unrated Mississippi
Transesterification Skid Secondary Asset ID: X2084	Reactor skid for transesterification of oil for biodiesel. This skid is named "Plant 4" in IKA drawings. Secondary skid.See GA and ISO in Links	Unrated Mississippi
Vacuum System Asset ID: P-811 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	Illinois

Process/CIP / COP — 1 Items

COP Tanks & Systems Asset ID: 1975 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. 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. • For 6 foot long COP tank subtract $1,500 from quotation • For 8 foot long COP tank subtract $600 from quotation • For 12 foot long COP tank, add $1,350 to quotation • Note: a pipe draining rack can be provided, we can furnish COP tanks with or without recirculating pump 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. Terms of Payment: Fifty Percent (50%) deposit with your order Fifty Percent (50%) balance when ready for shipment	NEW Long Beach, CA

Process/Reactor		6 Items
Catalytic Converter Reactor Asset ID: 41-R-168 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 Soperton, GA
Cavitation Reactor Asset ID: 2446 Hydro Dynamics	**Shockwave Power Reactor** 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 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 Rome, GA
Cavitation Reactor Asset ID: 2447 Hydro Dynamics	**Shockwave Power Reactor** 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 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 Rome, GA

Fischer-Tropsch Reactors Asset ID: B-1012 Velocys	**Velocys Fischer-Tropsch Reactors - NEW, Never Used** Capacity Design Rate at 175 bbl/day. New Reactors using Fischer-Tropsch technology. • Velocys has a patented catalyst and microchannel reactor system that enables production of SAF and Renewable Diesel from a vast range of sources. • Microchannel reactor provides a compact modular and scalable solution • Catalysts enable high volumetric productivity, 6-10 times that of traditional FT technology • System can achieve high per-pass and overall CO conversion and maximize throughput at same fresh syngas to reduce c.5% OPEX Quantity (4) reactors - priced separately Also available (6) charges of catalyst for these 4 reactors at an additional cost	NEW Houston,TX
Reactor 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 Illinois
Reactor Hydrogenation Asset ID: 1751 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 India

Process/Refining — 1 Items

Deodorizer 350 STPD (partial) Asset ID: 8233 Crown	**Crown Continuous Deodorizer 350 STPD (partial) NEW, old stock** 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 • Deodorizer, double shell packed column stainless steel 316. with heat bleaching section and integrated vapor scrubber. (70% complete) • Post Deodorizer. Packed column ss 316 (80% complete) • Deaerator. Packed column type for full vacuum operation, stainless steel 304L. (80% complete) • Distillate Receiver. Vacuum vessel, dished ends 304L stainless (80% complete) • Chilled Loop Vacuum System. For absolute pressure 1.1 to 1.3 Torr absolute. Hot well tank and glycol tank (70%/90% complete) 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 Malaysia

Process/Vacuum — 4 Items

Steam Ejectors Asset ID: B2078 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 Peoria, IL
Ultra High Vacuum System Asset ID: V1001	**Ultra-high Vacuum (UHV) system** 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. **Features** • Vacuum Chamber: Ultra-high vacuum chamber with all sensors / gauges to simulate the space environment of geosynchronos satellites • Pumping System, Pfeiffer molecular diffusion vacuum pump • Temperature Control • Monitoring and Control System • Safety System, interlocks **Capabilities** • Radiation Simulation • Solar Simulation	Like New Colorado
Vacuum System Steam Ejector Asset ID: 7114 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 Texas
Vacuum System Steam Ejector Asset ID: 7115 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 Texas

Pump		46 Items
Biodiesel Loadout Pump Asset ID: BD-1507	Biodiesel loadout pump	Illinois
Can Pump Asset ID: P-502 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 Asset ID: P-505 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 Asset ID: P-703 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 Asset ID: P-705 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 Asset ID: P-709 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 Asset ID: P801 Teikoku	Teikoku Feedpump F64-215C4BM-0405S1V-AV, S/N CV-4637-2	Illinois
Can Pump Asset ID: P-807 Teikoku	Teikoku Feed pump 150 GPM, Driven by 1HP, 460 volts, 60 Hz, 3 Phase. Last used as Feed pump	Illinois
Can Pump Asset ID: P-808 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 Asset ID: P-508 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	Illinois
Can Pump Asset ID: P-509 Teikoku	Teikoku 3.3 HP, 460 volts, 60 Hz, 3 phase with VFD. Last used as PW Feed pump	Illinois
Can Pump Asset ID: P-B100 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 Asset ID: P-1006 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
Can Pump Asset ID: P-102 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 Asset ID: P-107 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
Can Pump Asset ID: P-201 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 Asset ID: P-205 Teikoku	Teikoku Can Pump 5.3 HP F60-3211N4BL-0508SG1-AV, S/N 20140043676, 460 volts, 60 Hz, 3 phase with VFD. Last used as PW Day Feed Pump	Illinois
Can Pump Asset ID: P305 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
Centrifugal Pump Asset ID: P-109 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 Asset ID: P-112 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 Asset ID: P-1003 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 Asset ID: P-1005A 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 Asset ID: P-1005B 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 Asset ID: BDPC-158 Dean Pump	Dean pump 4x6x10 S/N 196598, 1320 GPM at 195 head, TECO 100 HP, 3650 RPM motor	Illinois
Explosion Proof Pumps (4) Asset ID: 8576 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 Colorado

Feed Pump Asset ID: P304 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 Asset ID: P-404 Teikoku	Teikoku F60-3115N4BL-02045G1-AV, S/N 2014004327 Pump 20 GPM, 92.4 Ft, 3.3 HP, 3600 RPM, 5.5 FLA	Illinois
Liquid Ring Pump Asset ID: P-507 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 Asset ID: P116 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 Asset ID: P-111A BUSCH	Busch vacuum pump 3.0 HP, 460 volts, 60 Hz, 3 phase. Last used as FD Filter Vacuum System	Illinois
PD Pump Asset ID: P115 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 Asset ID: P-214 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
PD Pump Asset ID: P-922 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
Plunger Pump Asset ID: P-303 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 Asset ID: P-307 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 Asset ID: P-402A 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 Asset ID: P-207A 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

Plunger Pump Asset ID: P-203 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 Asset ID: P-405 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
Pump Asset ID: P-705A Teikoku	Pump 264 GPM, 138 Ft., 22.8 HP, 3600 RPM, 31 FLA	Illinois
Pump Asset ID: P-706 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 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 Asset ID: P-512 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
Pump Asset ID: P120	Pump 41 GPM, 92 Ft, 4.6 HP, 3500 RPM, 7.5 Fla, Last used as Biodist. Feed Pump	Illinois
Vacuum Pump Asset ID: P-8622 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 Asset ID: BD-1510 Flowserve	Flowserve Innomag Pump BM69011100-BCO, 6.9 Imp. Dia/8.25 inch S/N 68429, 1.5x1x8 inches	Illinois

Pump/Centrifugal		**13 Items**
Centrifugal Pump 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 Grant City, MO
Centrifugal Pump Asset ID: 7139B 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 Grant City, MO
Centrifugal Pump Asset ID: X2074	Centrifugal pump. Specs unknowm - last used as Cold Soak Pump West	Unrated Mississippi

Centrifugal Pump Asset ID: X2072	Centrifugal pump. Specs unknown - last used as Precoat Pump	Unrated Mississippi
Centrifugal Pump Asset ID: X2062	Centrifugal pump. Specs unknown - last used as Break Tank Pump	Unrated Mississippi
Centrifugal Pump Asset ID: 380-PU-872 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 Saskatchewan, Canada
Centrifugal Pump ss Asset ID: X2104 Goulds	Goulds centrifugal pump, model 3196. Size 1.5 x 3-8 with 5.5 inch impeller. 3600 rpm. Designed for 92 gpm at 102 ft TDH. Material CD4MCU - stainless steel. Includes pump, motor, coupling, and bedplate	Unrated Mississippi
Centrifugal Pump SS Asset ID: 7137A 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 Grant City, MO
Centrifugal Pump, ss Asset ID: 5994 Waukesha	Waukesha Cherry Burrell Centrifugal Pump, stainless steel. Close coupled with motor.10 HP Baldor-Reliance- 2x2. S/N 1000002442475	Unrated Jacksonville, IL
Condensate Pump Asset ID: X2043	Centrifugal condensate pump at condensate receiver. Vertical. Driven by 5HP motor. Specs unknown	Unrated Mississippi
Positive Displacement Pump Asset ID: X2013	Positive displacement pump. Specs unknown - last used as a Stripper feed pump	Unrated Mississippi
Pump, Sanitary Centrifugal Asset ID: 5993 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 Jacksonville, IL
Vertical Centrifugal Pump Asset ID: X2051	Vertical centrifugal pump. Specs unknown - last used as Scrubber pump.	Unrated Mississippi

Pump/Magnetic Coupled		**2 Items**
Centrifugal Magnetic Pump Asset ID: 2029 Klaus Union	Klaus Union centrifugal magnetic drive pump - NEW (old stock), unused in original crate. This pump has a permanent magnetic synchronous coupling. This is pump only, no motor. Type SLM N 100-200-160 S 3 GU OE, Contract number 1.054232-0001, series P00056621. Size 4x5. Built 2004 Designed for 224.73 m3/hr at 50.34 m head. (989 gpm at 165 ft TDH. Developed HP = 125 HP). 3550 rpm with calculated power at 93 kw. (no motor supplied). Ready to load	New, Old Stock Illinois

Non-Seal Pump Asset ID: 2031 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 Illinois

Pump/MultiStage — 1 Items

Vertical Multistage Pumps and MCC Asset ID: PK-2097 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. • 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. Package Includes: • Two (2) Simflo (Simmons) Vertical pumps Model SD10C (SP10L is new model # but same pump) 7-Stage, 600 gpm at 1245 ft/head, 300 HP Bowl dia 10.19", BEP head 158 ft per stage • MCC Portable Building • MCC 4000A Cutler-Hammer Advantage Series 2100 480 V 3 Phase 3-wire 60 Hz 3200 A Sect.1-2 800 amp Sect.3-5 1200 amp w/ 4000 amp Main and Breakers for each VFD/pump and includes spare breaker • Starters installed in MCC (2) Allen-Bradley VFD's - CAT # 1336E-BP350-AN-CM-EN AC Input: 300-378 KVA 380-480 V 455 amps 50/60 Hz 3 Phase AC Output: 366 KVA 0-460 V 459.2 amps 0-400 Hz 3 Phase • Allen Bradley PanelView 1000 plc controls 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 Marissa, IL

Pump/Peristaltic — 2 Items

Peristaltic Pump Asset ID: AF15 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 Illinois
Peristaltic Pump Asset ID: AF16 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 Illinois

Pump/Positive Displacement — 19 Items

Gear Pump Asset ID: X2007	Small positive displacement pump (gear pump probably). Specs unknown. Pump by FFA Pot.	Unrated Mississippi
High Pressure Gear Pump Asset ID: 7628 Flowserve	Flowserve positive displacement rotary gear pump, Model 1.5GRM. Suction/Discharge 1-1/2" Shaft size 7/8". Last used for High pressure pump for votator, Flows to 1200 gpm at 500 psi. GR pumps provide high efficiency, pulse-free pumping, Ser no. 1162803CHP001A. Driven by Baldor 15 HP 230/460v 3/60 at 1160 RPM.	Used - Good Jacksonville, IL
Positive Dislacement Pump Asset ID: X2079	Positve displacement pump. Specs unknown - last used as RDO pump	Unrated Mississippi
Positive Dispacement Pump Asset ID: X2020 Gorman Rupp	Positive displacement pump, probably Gorman Rupp gear pump. Specs unknown - last used as Larger pump under glycerin coalescer	Unrated Mississippi
Positive Dispacement Pump Asset ID: X2049	Positive displacement pump. Specs unknown - last used as MRU pump.	Unrated Mississippi
Positive Displacement Pump Asset ID: X2046	Positive displacement pump. Specs unknown - last used as Settler pump.	Unrated Mississippi
Positive Displacement Pump Asset ID: X2065 Gorman Rupp	Positive displacement pump. Specs unknown - last used as HydraSep 1 Pump	Unrated Mississippi
Positive Displacement Pump Asset ID: X2059	Positive displacement pump. Specs unknown - last used as MRU Bio Cooler South	Unrated Mississippi
Positive Displacement Pump Asset ID: X2067 Gorman Rupp	Gorman Rupp positive displaceent pump. Specs unknown - last Used as Hydra Sep 2 Pump	Unrated Mississippi
Positive Displacement Pump Asset ID: X2071	Positive displacement pump. Specs unknown - last used as VLF Feedpump	Unrated Mississippi
Positive Displacement Pump Asset ID: X2054	Positive displacement pump. Specs unnown - last used as Knockout Pot Pump	Unrated Mississippi

Positive Displacement Pump Asset ID: X2012	Viking positive displacement pump. Specs unknown - lste used as pump from Glycerin settler	Unrated Mississippi
Positive Displacement Pump Asset ID: X2019	Positive displacement pump - probably gear. Specs unknown - last used as Small pump located under glycerin coalescer	Unrated Mississippi
Positive Displacement Pump Asset ID: X2091	Positive dispacement pump. Specs unknown - last used as crude tank pump	Unrated Mississippi
Positive Displacement Pump Asset ID: X2092	Positive displacement pump. Specs unknown - last used as oil dryer pump	Unrated Mississippi
Positive Displacement Pump Asset ID: 7139I 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 Grant City, MO
Positive Displacement Pump 3x3 Asset ID: 7139A 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 Grant City, MO
Positive Dsplacement Pump Asset ID: X2082	Positive displacement pump. Specs unknown - last used as settling tank 1 pump	Unrated Mississippi
Pump, lobe SS Asset ID: 5992 Waukesha	Sanitary positive displacement pump - stainless steel. Waukesha. Includes pump, motor, gearbox, baseplate - as unit. Last used for margarine production.	Unrated Jacksonville, IL

Pump/Shear Pump — 1 Items

High Shear Mixer Asset ID: X2096 IKA	High shear mixer, IKA. Specs unknown	Unrated Mississippi

Pump/Split Case — 2 Items

Pump, Split Case Asset ID: 7412 Worthington	Worthington Split case pump. Model 5LN-22. Size is 8" x 5" - 22" Impeller, epoxy lined. Rated at 1250 gpm at 420 ft TDH. (Requires 250 HP motor 1775 rpm not included). See pump curve in document links This pump has been rebuilt and was never used after rebuild. Used as a back up fire pump so it is high head. Rebuilt by HydroAire Services job # 6082-12-11-11. Rotation: GREY pump looking at the shaft, rotation is counter clockwise. Note Worthington pumps are now backed by Flowserve. Bare pump only - Grey. Shipping dimensions 48 x 48 x 45" tall, 1350 pounds.	Reconditioned Illinois
Split Case Pump Asset ID: 6574 Aurora	Aurora Pump 8" split case centrifugal water pump. No. 91-10426, Type 411 SF. Size 8x8x11B. 2000 GPM. 120 Ft. head. 1750 RPM. Powered by a 75 HP General Electric motor. Model 5K365BL21502, S/N R66141250. 1780 RPM. 230/460V, 3 Ph., 60Hz, 175/88A.	Unrated Grant City, MO

Pump/Sump — 1 Items

Sump Pump Asset ID: 1945 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 Indiana

Pump/Turbine Pump — 3 Items

Vertical Turbine Pump Asset ID: P-4300D 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 Grant City, MO
Vertical Turbine Pump Asset ID: P-4300A Worthington	Worthington QL double suction vertical turbine cooling tower pump. Model 12QL147. 3 stage design with 16 inch discharge. Designed for 7,000 GPM @ 167' head. With 400 HP Siemens-Allis motor. 4000V, 52.8A, 60Hz, 3 phase, 1780 RPM. Pump and motor rebuilt in 2009. Idled since 2013	Used - Good Grant City, MO
Vertical Turbine Pump Asset ID: P-4300B Worthington	Worthington QL double suction vertical turbine cooling tower pump. Model 12QL147. 3 stage design with 16 inch discharge. Designed for 7,000 GPM @ 167' head. Incudes 400 HP Siemens-Allis motor. 4000V, 52.8A, 60Hz, 3 phase, 1780 RPM	Used - Good Grant City, MO

Pump/Vacuum Pump — 3 Items

Vacuum Ejector Pump Asset ID: S3210 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 Rome, GAJacksonville, IL
Vacuum Pump Asset ID: X2086	Liquid ring vacuum pump. Specs unknown - last used as oil vacuum dryer pump for oil dryer	Unrated Mississippi
Vacuum Pump Asset ID: X2052	Vacuum pump. Specs unknown - last used as Located Next to MRU	Unrated Mississippi

Silo — 1 Items

Silos and Slurry Mix System (3) Asset ID: TK2022 Pittsburgh Tank Corporation	**Silo with Slurry Mix System (3)** Three frestanding silos with cone bottom and slurry tank mix system underneath. All 3 silos come with pneumatic conveying system, agitated slurry mix tank, pumps. Also bin vent, ladder, handrails, and platform. These silos are used, but in excellent condition. All 3 silos are priced as a "Lot" - priced for the "Lot of 3" **Tank 3 tag 14-1840-01** • Size 12 ft OD x 22 ft s/s with cone and skirt for OAH 39 ft - 6 in • Internal Pressure- 8 oz/sq in, Internal Vacuum- 4oz/sq in • Last product- Hydrated Lime density- 40lb/cu ft • Approximate Capacity- 2300 cu ft **Tank 2 tag 14-1840-11** • Size 12 ft OD x 22 ft s/s with cone and skirt for OAH 41 ft - 3 in • Internal Pressure- 8 oz/sq in, Internal Vacuum- 4oz/sq in • Last product-Soda Ash, density 40lb/cu ft • Approximate Capacity-2300 cu ft **Tank 1 tag 14-1840-06** • Size 12 ft OD x 8 ft - 6 in s/s with cone and skirt for OAH 26 ft • Internal Pressure- 8 oz/sq in, Internal Vacuum- 4oz/sq in • Last product Magnesium Oxide, density 40lb/cu ft • Approximate Capacit y- 1300 cu ft	Used - Very Good Illinois

Systems & Packages — 7 Items

Ethanol Extraction System & Evaporator Asset ID: PK-8120	**Ethanol Extraction System plus Falling Film Evaporator & Chiller** This equipment was used for ~1 year (new) and then put into storage. Clean and treated well. Excellent for extracting essential oils or CBD. • Delta Separations CUP30 ethanol extraction system,, rated at 25-30 lbs/batch in 20 min batch cycles. The Centrifuge Utility Platform (CUP) Series are perfect for effective and safe processing of your botanical biomasses • CUP30 Kegs • Chiller, Julabo Recirculating Chiller FL11006 • FPW91-SL 230/3PPE/60Hz • Falling Film Evaporator AutoVap AV30 with EV13 and DR10 • Ertel Alsop/Linticular Filter • Rotovap - Across International Rotovap All sold as a LOT. **This Package asset PK-8120 is a substantially Reduced Package Price** for components Ethanol Extractor asset 8122, Falling Film Evaporator asset 8123, and Rotovap asset 8124. For more detail on each component, enter V8120 in search box	Used - Excellent Texas

Ethanol Extractor Asset ID: 8122 CUP30	**CUP 30 Extractor** The CUP30 is a large capacity system that uses alcohol to extract your target compounds from various botanical materials • Working temp range from -91C to +100C (-131.8F to 212F), • Flow rates 22-26 L/min at 5.8 - 10.2 psi • Size 33.5 x 29.9 x 45.7 mm, weight 653 lbs • Batch size 25 - 30 lbs plant material, avg run time 15 - 20 min • Alcohol requirement is 25 -30 gallons per run The CUP-30 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 600 lbs per 8-hour work day, this system will efficiently attain your processing goals. **See Asset PK-8120 for a substantially Reduced Package Price** for Ethanol Extractor asset 8122, Falling Film Evaporator asset 8123, and Rotovap asset 8124. For more detail on each component, enter V8120 in search box	Used - Excellent Texas
Evap System Asset ID: PK-6045 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 Saskatchewan

Falling Film Evaporator Asset ID: 8123 TruSteel	**Trusteel AutoVap AV30 Falling Film Evaporator** This equipment was used for ~1 year (new) and then put into storage. Clean and treated well. Compatible with ethanol, methanol, heptane, hexane, acetone, acetonite • Up to 45 US gallon/hr recovery with 95 - 99% solvent recovery. Complete automation • AV30 footprint 48 x 32 x 91 inches tall, weight 850 lbs • Chiller 12 ton cooling capacity. TAEevo Model Tech 121, serial 2200339588. Refrigerant R410A. Flow rate 31 gpm, 2 fans. Total air flow 9,415 cfm. size 73 x 30 x 57inches tall, weight 1,455 lbs • Vacuum pump size 9 x 15 x 7 inches, weight 40 lbs • Water Heater, electric Sterlco Model M2B 2016-M single zone portable hot process heater. Closed lop heat exchanger. Heater power 12 KW, pump 1KW at 18 gpm. Max op temp 550F. size 10 x 24 x 15.75 inches • Control panel size 8 x 36 x 48 inches tall • Ertel Alsop Lenticular Filter. Single housing. Each lenticular module Pak® can hold up to 3.42 square meters (36 square feet) of filtration area, and one housing can hold up to 13.7 square meters with only four 16-inch diameter Pak® elements The AutoVap, is the most sophisticated, compact, and efficient falling film evaporator on the market **See Asset PK-8120 for a substantially Reduced Package Price** for Ethanol Extractor asset 8122, Falling Film Evaporator asset 8123, and Rotovap asset 8124. For more detail on each component, enter V8120 in search box	Unrated Texas
Railcar Dumper System Asset ID: 1070 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 Marissa, IL
Rotary Steam Tube Dryer System #1 Asset ID: PK-5410 Davenport	Complete rotary steam tube dryer system #1. Drum size is 11.75 ft dia x 70 ft long. Model RSTD. Ser num 33007. Designed for evap capacity 29,397 #/hr. Material 304L. Driven by 100HP motor. For dryer details and photos see Asset DR-5410. All ancillary equipment for the steam tube rotary dryer system. Includes single shaft paddle mixer, ss drag conveyors, screw conveyors, cyclones and rotary valves, main fan, ss stack. Second Tube and Fluid Bed Cooler also available. Ask about a package price. For a list of all these components, enter PK5410 in search box.	4 Canton, IL
Rotary Steam Tube Dryer System #2 Asset ID: PK-5420 Davenport Barr-Rosin	Davenport Rotary Steam Tube Dryer No. 2 Size 11.75 ft dia x 70 ft. Model RSTD. Designed for evap capacity 29,397 #/hr. Material 304L. Driven by 75HP motor,. For dryer details and photos see Asset DR-5420. All ancillary equipment for the #2 steam tube rotary dryer system. Includes pre-mixer, double shaft paddle mixer, ss drag conveyors, screw conveyors, cyclones and rotary valves, main fan, Second Tube and Fluid Bed Cooler also available. Ask about a package price. For a list of all these components, enter PK5410 in search box.	4 Canton, IL

Systems & Packages/CHP		1 Items
Biomass Boiler & Turbine GenSet 20MW Asset ID: 2086 FSE Factory Sales & Engineering	**Biomass Boiler & Turbine GenSet 20MW** Equipment only - building not included **FSE biomass boiler 1100 psig rated at 325,000 lb/hr** Serial Number 11-2037, ASE Nat'l Board #51. Burning grindings from bales - fed by Detroit stokers. **GE Generator**	Unrated Kansas

Systems & Packages/Distillation		1 Items
Brine Distillation System Asset ID: 1725 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 links for drawings, P&ID and Process Flow Diagrams. We have drawings of major pieces of equipment on request. Price quoted incudes contractor removal and loading estimate and is subject to change.	Used - Good MN

Systems & Packages/Edible Oil		2 Items
Bleacher - 150 TPD Stainless Asset ID: 5718 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

Fractionation System 118 MTPD Asset ID: PK-1200 DeSmet	**Fractionation Systems Pressure 30 bar** 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. **78 MTPD System** Fractionation system - DeSmet, rated at 30 bar (450 psig). Built 1997. Includes (18) vertical crystallizers and Industrieterren 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. Capacity will vary depending on type of operation and oil. • Membrane filter for fractionation, 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. **40 MTPD System** 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. Capacity will vary depending on type of operation and oil. Stainless steel trough and auger system. Includes all tanks, pumps, electrical, and control systems. • Filox membrane filter for fractionation, 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 NOTE: Missing a 25 ton and an 80 ton chiller that will have to be replaced for a full system.	Used - Very Good Mexico

Systems & Packages/Slurry & Recirculation		1 Items
Slurry Tank, Rectangular Asset ID: AF17	Slurry tank mixing and pumping system. TK-46 Backwater Tank. Stainless steel rectangular tank with 2 pumps at top. Size of tank is 4 ft x 4 ft x 3 ft tall. OAH 84". Two pumps are Penguin immersible pumps Model PX-15AK-HF driven by 15HP motor. Pump A has 15HP motor at 2850 rpm and pump B has 15HP motor at 3450 rpm.	Used - Very Good Illinois

Tank, Poly		2 Items
Poly Tank Asset ID: X2023	Vertical poly tank, flat bottom, will have to be measured but approx 3 ft dia x 4 ft tall for capacity 200 gallons. Last used as HCL hydrochloric acid poly tank.	Unrated Mississippi
Poly Tank Asset ID: X2024 Sii	Vertical poly tank. Flat bottom. Must be measured but size approx 8 ft dia x 16 ft tall for capacity 6000 gallons Last used as HCL acid tank.	Unrated Mississippi

Tanks & Pressure Vessels/Carbon Steel		51 Items
Air Receiver Asset ID: BD1202	Dry air tank, 400 gallons, C/S	Illinois
Air Reciever Asset ID: X2034 Steelfab	Air receiver tank. ASME MAWP 165 psig. Specs unknown - last used as West Receiver.	Unrated Mississippi
BDT PSV Drain Tank Asset ID: BDT2007	PSV Drain Tank, 300 gallon capacity	Illinois
Cone Bottom Tank, Insulated Asset ID: X2004	Vertical carbin steel tank on legs, insulated aluminum clad. Slight cone bottom. Side entering manhole. Size unknown, will have to be measured. Approx 4 ft dia x 6 ft tall for capacity. Last used as Glycerin Still South	Unrated Mississippi
Cone Bottom Tank, Insulated Asset ID: X2005	Vertical carbin steel tank on legs, insulated aluminum clad. Slight cone bottom. Side entering manhole. Size unknown, will have to be measured. Approx 4 ft dia x 6 ft tall for capacity. Last used as Glycerin Still North	Unrated Mississippi
Dry air receiver tank Asset ID: BT-1201	Dry air receiver tank, 5 feet x 15.8 ft tall, 2177 gallons, C/S	Illinois
Expansion Tank Asset ID: T-1000 Wendland	Expansion Tank S/N 39367, Wendland Mfg, 100 psi @ 700F MAWP, -20F @ 100 psi MDMT, 3500 gallons	Illinois
Filtered FD Storage Tank Asset ID: T-114A Squibb	Squibb Vertical tank 43600 gallon capacity, CS, 13 feet diameter x 44 feet H	Illinois
Filtered FD Storage Tank Asset ID: T-114B Squibb	Squibb Vertical tank 43600 gallon capacity, CS, 13 feet diameter x 44 feet H	Illinois
Horizontal Tank Asset ID: X2008	Horizontal carbon steel tank, slight dish ends. Side and end manholes. Size must be measured - approc 6 ft dia x 12 ft long for capacity 2500 gallons. Glycerin Settler 221	Unrated Mississippi
Horizontal Tank Asset ID: X2080	Horizontal carbon steel tank, insulated. Must be measured but size approx 8 ft dia x 16 ft long for capacity of 6000 gallons. Used as Settling Tank 2	Unrated Mississippi
Horizontal Tank Asset ID: X2081	Horizontal carbon steel tank, insulated. Must be measured but size approx 8 ft dia x 16 ft long for capacity of 6000 gallons. Used as Settling Tank 1	Unrated Mississippi

Horizontal Tank, Insulated Asset ID: X2044	Horizontal carbon steel tank, insulated. Must be measured but size approx 8 ft dia x 16 ft long for capacity of 6000 gallons. - used as a biodiesel settler tank,	Unrated Mississippi
Knock Out Pot, FFA Asset ID: X2006	Knock Out Pot for FFA (free fatty acid). Carbon steel, Will need to be mesured - size aprox 18" dia x 2.5 ft tall. Sits on platform. Capacity 30 gallons. Has 2 level switch/transmitters.	Unrated Mississippi
Knockout Pot Asset ID: X2055	Vertical carbon steel knock out pot. Specs unnown	Unrated Mississippi
Methanol Storage Tank Asset ID: T-304 Squibb Tank Co	Vertical cylindrical atmospheric welded steel storage tank 12 ft OD x 35 ft H 29600 gal nom-cap, CS	Illinois
Seal Pot Asset ID: X2011	Seal Pot for pump. Carbon steel, will have to be measured - size aprox 18" dia x 2.5 ft tall. Sits on platform. Capacity 30 gallons. Has 2 level switch/transmitters.	Unrated Mississippi
Slurry Mix Tank Asset ID: TK-40 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 Illinois
Slurry Mix Tank Asset ID: AF6 Wehrhahn	Mixing Tank. Vertical agitated carbon steel tank, insulated. Size approx 28" dia x 70" tall on 16" legs. Agitator is approx 3.5 ft above top of tank. OAH is approx 10.5 ft. Open top, flat bottom. 125 gallon tank. Top entering agitator is 30 HP with one set of blades. Can be used as liquid or powder mix slurry tank	Used - Very Good Illinois
Slurry Mix Tank, Powder Asset ID: TK-22 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 Illinois
Slurry Tank Asset ID: X2075	Slurry Tank, vertical carbon steel tank. Flat bottom.with cs skirt. Must be measured but size approx 4 ft dia x 15 ft tall for capacity of 1500 gallons. used as slurry tank for filter press.	Unrated Mississippi
Slurry Tank Asset ID: X2073	Slurry Mix Tank. Vertical carbon steel tank on legs. Must be measured but size aprox 4 ft dia x 8 ft tall for capacity 750 gsllons. Used as precoat tank for filter presses.	Unrated Mississippi
Slurry Tank, Powder Asset ID: TK-10 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 Illinois
Small Vertical Tank Asset ID: X2014	Vertical carbon steel tank, insulated. Size must be measured but approx 15 inch dia x 3 ft tall for capacity 40 gallons. Last used as Methylate Oxide buffer tank	Unrated Mississippi

Storage Tank Asset ID: T-921A 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 Asset ID: T-921B 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 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 Asset ID: TK06 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	Illinois
Vertical Cylindrical Tank Asset ID: TK07 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 14131	Illinois
Vertical Cylindrical Tank Asset ID: T-202 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 Asset ID: T-101A Squibb Tanks	CS Storage Tank, 43,600 gallons,approx 14' dia x 44'H. Last used as FD Storage Tank	Illinois
Vertical Cylindrical Tank Asset ID: T-101B Squibb Tanks	CS Storage Tank, 43,600 gallons, approx 14' dia x 44'H. Last used as FD Storage Tank	Illinois
Vertical Cylindrical Tank Asset ID: TK-01 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 Asset ID: TK-02 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 Asset ID: TK-03 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 14136	Illinois
Vertical Cylindrical Tank Asset ID: TK-04 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 Asset ID: TK-05 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	Illinois
Vertical Tank Asset ID: X2078	Vertical carbon steel tank on legs, top entering agitator. Must be measured but size approx 4 ft dia x 9 ft tall for capacity of 850 gallons. Used as RDO Tank	Unrated Mississippi
Vertical Tank Asset ID: X2068	Vertical carbon steel tank, on legs, insulated. Top entering agitator. Unknown dimensoions, must measure but approx size 4 ft dia x 8 ft tall for capacity 750 gallons. Used as Wash Tank North	Unrated Mississippi
Vertical Tank Asset ID: X2069	Vertical carbon steel tank, on legs, insulated. Top entering agitator. Unknown dimensoions, must measure but approx size 4 ft dia x 8 ft tall for capacity 750 gallons. Used as Wash Tank South	Unrated Mississippi
Vertical Tank Asset ID: X2045	Vertical carbon steel tank on legs. Approx size 2 ft dia x 4 ft tall - capacity. Measurements must be verified. Located Next to Settler	Unrated Mississippi
Vertical Tank, Insulated Asset ID: X2002	Vertical carbon steel tank, insulated. Flat bottom, with steam coils. Size unknown, will have to be measured. Approx 8 ft dia x 12 ft tall for capacity 5000 gallons. Last used as Glycerin Tank South	Unrated Mississippi
Vertical Tank, Insulated Asset ID: X2003	Vertical carbon steel tank, insulated. Flat bottom, with steam coils. Size unknown, will have to be measured. Approx 8 ft dia x 12 ft tall for capacity 5000 gallons. Last used as Glycerin Tank North	Unrated Mississippi
Vertical Tanks Asset ID: X2090	Vertical carbon steel tanks, on legs. Must be measured but size approx 4 ft dia x 9 ft tall for capacity 850 gallons. Biodiesel process tanks - crude tanks. Qty (2) - priced separately	Unrated Mississippi
Vertical Tanks 30,000 Gallon Asset ID: 2365 Agri Process Innovations	Vertical carbon steel tanks 30,000 gallon capacity. Approx size 11'-9" diameter x 37'-7" tall. Flat bottom, slight sloped top. Most if not all of these tanks are designed by Agri Process Innovations and built by SteelTank in conjunction with a biodiesel plant and held biodiesel or glycerin. See the drawing in Document Link - final dimensions would have to be verified on purchase. There are 16 tanks as described below. Priced separately. Allow 2 to 4 weeks for removal and loading • Vertical Tanks - Quantity (5): not insulated, flat bottom, slightly sloped top, side manhole. • Vertical Tanks - Quantity (3): not insulated but they have angle iron clips installed for insulation, flat bottom, slightly sloped top, manhole on side • Vertical Tanks - Quantity (8): Insulated with aluminum sheathing, flat bottom, slightly sloped top, manhole on side	Unrated Mississippi

Vertical Tanks 35,000 Gallon (2) Asset ID: TK1010 Palmer Manufacturing and Tank	Carbon Steel Tanks. 35,000 Gallons each. • Tanks have been inspected and certified to meet STI SP001 specs and API 653 specs. Manufactured by Palmer Manufacturing and Tank. • Size is 12 ft. diameter x 42 ft. tall. • Internal stainless steel 2 inch heating coils at bottom 24 inch manway and nozzle for agitator mount. Slight cone top, flat bottom with sump. (4) anchor pads for 1" bolt for hold down onto concrete. Tanks were located inside building during operation; tank coating is generally in good condition. See tank inspection reports and results of UT thickness tests in Links. Removed and ready to load. Two (2) tanks available, priced separately.	Used - Very Good Nebraska
Vessel Asset ID: V-511 McMaster	McMaster Vessel 300 gallon capacity 38 inch diameter x 60 inches Long and 48 inches high, 12 gauge wall thickness, 37415K71	Illinois
Vessel Asset ID: V-513 McMaster	McMaster Vessel 550 gallon capacity 38 inch diameter x 72 inches Long and 51 inches high, 12 gauge wall thickness, 37415K72	Illinois
Vessel Asset ID: T-1007 McMaster	McMaster Carr Tank, 550 gallon capacity, 4 ft dia x 6 ft Horizontal Tank last used as Vent Header Collection Tank	Illinois
Vessel Cone Bottom Asset ID: V-108 Fenix	Cone-bottom Vessel 250 gallon capacity, 5 feet x 2 feet, CS	Illinois
Wet air receiver tank Asset ID: BT-1200	Wet air receiver tank, 3 ft diameter x 5 ft 10 3/8 inch T, 366 gallons	Illinois

Tanks & Pressure Vessels/Fiberglass — 2 Items

Vertical Fiberglass Tank Asset ID: X2001 Belding Tank Technologie	Vertical fiberglass tank, flat bottom/top, side entering manhole designed for atmospheric pressure. Designed for sodium silicate solution at specific gravity 1.5. Last used for HCL (hydrochloric acid). Need measurements and specs, nameplate.	Unrated Mississippi
Vertical Tank 30,000 Gal Fiberglass (4) Asset ID: T-1001 ICM Standard Parts	**Methanator Tank Fiberglass, Insulated** Fiberglass 30,000 gallon Tanks. Tank size is 12 ft OD x 36 ft s/s. Flat bottom, slight dished top. Last used for methanator tanks in an ethanol wastewater process. There are 4 available, 3 pieces to each set. Priced for the lot. Approx shipping dimensions for the tank are 13.5 ft wide x 13 ft tall x 38 ft long. Piece on page 2 of drawing is 5 ft dia x 6 ft tall, and decarbonator on page 3 of drawing is 5 ft dia x 10 ft tall.	Used - Good Iowa

Tanks & Pressure Vessels/Pressure Vessel — 9 Items

Air Receiver Pressure Tank 200 Gallons Asset ID: AF1 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 Illinois
Condensate Receiver Asset ID: X2042	Condensate receiver. Must be measured but size approx 1.5 ft dia x 8 ft for capacity 100 gallons. Located Next to Control Room	Used - Fair Mississippi
Flash Tank Drum Asset ID: 31-V-156 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 Soperton, GA
Horizontal Decanting Vessel Asset ID: V-1506 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 Grant City, MO
Pressure Tank Asset ID: X2061 Hanson	Vertical carbon steel pressure tank with side manhole. ASME MAWP 200 psig at 400F. stamped pressure vessel. Approx size 36" dia x 8 ft tall for 400 gallon capacity. Last used in biodiesel service as VLF break tank. Serial No. 428040	Used - Good Mississippi
Steam Blowdown Drum Asset ID: 41-V-630 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 Soperton, GA
Steam Drum Asset ID: 41-V-180 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 Soperton, GA
Vacuum Pressure Tank Asset ID: X2087	Vertical carbon steel pressure tank (vacuum). Need nameplate specs and must be measured but size approx 3 ft dia x 15 ft tall. used as oil dryer	Unrated Mississippi
Vertical Tanks ss Asset ID: 1966 Tanks USA	Vertical insulated stainless steel tank, working capacity 5,548 gallons (21,000 liters). NEW - still at factory in China. Tank is stainless 316 with insulation and ss304 cladding. Tanks are designed for and built to ASME at an internal design pressure 7.5 bar (112.5 psig) and a working pressure of 6.5 bar (94.25 psig) although they are not certified by ASME. On legs for OAH 7892 mm (25.9 ft). Flange connections are metric 200mm pipe RF flange. Side 500mm manhole. Tanks were for a project that wasn't built. On factory floor now as surplus, ready to ship. Priced as each tank. See tank drawing.	NEW China

Tanks & Pressure Vessels/Separator **4 Items**

Hydrasep Oil Water Separator Asset ID: X2066 Hydrasep	Hydrasep Oil/Water Separator. Horizontal, carbon steel, insulated. Serial number 5000119. Volume 1,184 gallons. Atmospheric pressure. Hydrasep 2	Unrated Mississippi
Hydrasep Oil Water Separator Asset ID: X2064 HS-1000-BD	Hydrasep Oil/Water Separator. Horizontal, carbon steel, insulated. Hydrasep 1	Unrated Mississippi
Hydrasep Oil Water Separator Asset ID: 2448 Hydrasep	Hydrasep Oil/Water Separator. Horizontal Hydrasep HS-1500-BD. 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 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 Rome, GA
Hydrasep Oil Water Separator Asset ID: 2449 Hydrasep	Hydrasep Oil/Water Separator. Model HS-2000-BD. 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 Rome, GA

Tanks & Pressure Vessels/Stainless — 24 Items

Horizontal Tank, ss 1500 gal Asset ID: 2049	Horizontal stainless steel tank, on saddles. Size 67" dia x 94" long for approx capacity of 1,500 gallons. Pk6020	Used - Very Good Northern US
Mixing Tank, 600 Gallon Asset ID: 2112 Vendome Copper & Brass Works	Mixer with screw ejection through bottom port. This unit is fully operation and has few hours on it. Excellent shape • ***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. • ***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 Kentucky
Receiver Asset ID: T-702 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	Illinois
Square Tank, ss 8500 gal 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 Northern US

Vertical Bottom Tank Asset ID: T-204A Certified Tank	7400 gallon vertical Stainless steel tank by Certified Tank. 10 ft x 12 ft 8 inches	Illinois
Vertical Cone Bottom Tank Asset ID: V-411 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
Vertical Cone Bottom Tank Asset ID: V-213 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 Cone Bottom Tank Asset ID: V-313 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
Vertical Cylindrical Tank Asset ID: T-306 Fenix	Day Tank 6 ft x 8 ft S/S, 1600 gal, Shell 14.8 psi, Design temp 150F	Illinois
Vertical Cylindrical Tank Asset ID: T-401A Fenix	Day Tank 6 ft x 8 ft S/S, 1600 gal, Shell 14.8 psi, Design temp 150F	Illinois
Vertical Cylindrical Tank Asset ID: T-501 Fenix	Day Tank 6 ft x 8 ft S/S, 1600 gal, Shell 14.8 psi, Design temp 150F	Illinois
Vertical Cylindrical Tank Asset ID: T-206A 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 Asset ID: T-302 Fenix	Day Tank 6 ft x 8 ft S/S, 1600 gal, 6 ft x 8 ft S/S, Shell 14.8 psi, Design temp 150F, S/N 390295.01.09C Rev 00	Illinois
Vertical Flash Vessel Asset ID: F-106 Fenix	Vertical Flash Vesel by Fenix, 48.4 inch diameter x 156.7 inches, Stainless Steel 304Last used as FD Dryer Flash Vessel	Illinois
Vertical Flash Vessel Asset ID: F-504 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	Illinois

Vertical Flash Vessel Asset ID: V-506 Fenix	Fenix Vessel, 470 gallons capacity, 4 ft dia. x 90 inch OAH, 3/16 inch thick	Illinois
Vertical Tank, ss Asset ID: X2070 Columbian TecTank	Columbian TecTank vertical stainless steel tank, on legs. Top entering agitator. Cone bottom, side entering manhole. Must get measurements but approx size 5 ft dia x 13'-3" tall for capacity 1946 gallons. Used as SS Tank South of Water Tanks Feeds HydraSep 2	Unrated Mississippi
Vertical Tank, ss 145 gal 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 Northern US
Vertical Tank, ss 600 Gallon 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 Northern US
Vertical Tank, ss cone bottom 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 Northern US
Vessel with Elloip 2:1 Heads Asset ID: V-110 Fenix	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	Illinois
Vessel with Elloip 2:1 Heads Asset ID: V-212 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	Illinois
Vessel with Elloip 2:1 Heads Asset ID: V-410 Fenix	Fenix Process Technologies Stainless Steel Vessel, 215 gallon capacity, 3.5 ft O.D. x 3 ft H	Illinois
Vessel with Elloip 2:1 Heads Asset ID: V-312 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	Illinois