

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

## Asset Catalog for New Equipment (22 Items)

Asset	Description	Condition Location
Boiler/HRSG & Gasifiers		1 Items
<p><a href="#">Gas Fired Steam Generator (HRSG)</a> Asset ID: 7644 Rentech</p>	<p><b>Rentech Duct Fired HRSG System (Heat Recovery Steam Generator)</b></p> <p><b>Price Just Reduced</b></p> <p>This is a <b>brand new</b> HRSG - never used. Model Waterfall Type "O"</p> <ul style="list-style-type: none"> <li>Rated at 200,000 pph at 400 psig saturated steam with economizer (can also run at 200 psig)</li> <li>Designed for feedwater flow 400 gpm at 439 psig and 228F</li> <li><b>INCLUDES</b> (also see pdf list in link)</li> <li>Natural gas duct burner system and fuel skid with gas train and flame supervision, rated at 136 MMBTU/h</li> <li>Steam Generator System (HRSG) Evaporator. "O" type tube arrangement with steam drum and mud drum, 2" tubes</li> <li>Bypass stack 50 ft x 76" diameter</li> <li>Exhaust stack 50 ft x 76" diameter</li> <li>Economizer - finned tube single pass</li> <li>Boiler Control System: BMS - plc controlled burner management system, CCS - combustion control system, HMI touch screen, Allen Bradley plc and HMI</li> <li>Interconnecting duct work</li> <li>Ladders &amp; Gratings</li> </ul> <p>Rentech had pre-fit all structural steel in the shop. Once they were assembled, photos were taken, and pieces were disassembled for shipment.</p> <p>Rentech can provide 3-D modeling of the complete boiler system including auxiliaries to assist in the system layout and to avoid costly interference and fit-up issues in the field. (ay be extra cost)</p> <p><b>System has been completed (never has been used)</b> We have complete shipping documents for number of pieces and sizes.</p>	<p style="text-align: center;">NEW</p> <hr/> <p style="text-align: center;">Iowa</p>
Centrifuge and Decanter/Centrifuge		1 Items

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

<p><a href="#">Centrifuge VO 10 ss</a> Asset ID: 1931 Alfa Laval</p>	<p><b>New Alfa Laval VO10 centrifuge</b></p> <p>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.</p> <ul style="list-style-type: none"> <li>• Rated at hydraulic capacity 44 gpm for a nominal capacity of 100 MTPD (19 gpm).</li> <li>• Direct drive 18.5 KW (25 HP) motor with VFD. 480v 3/60</li> <li>• All wetted parts in contact with product are stainless steel 304</li> <li>• Controls included</li> <li>• Tools included</li> <li>• Still in original crates</li> <li>• We have the complete specifications in our Virtual Data Room - by invitation</li> <li>• Available for immediate shipment</li> </ul>	<p>NEW</p> <p>Colorado</p>
--	---	----------------------------

Centrifuge and Decanter/Decanter		1 Items
<p><a href="#">Decanter / Centrifuge</a> Asset ID: 7885 Andritz</p>	<p><b>NEW Decanter</b></p> <p>Andritz A10-4 decanter centrifuge with oil lubrication. New-unit is still on skid and in boxes. Was never installed. G force 2,700. Diameter 1000mm</p>	<p>NEW</p> <p>California</p>

Dryer/Flash Dryer		1 Items
<p><a href="#">Vacuum Dehydration Unit</a> Asset ID: 2087 IFS</p>	<p><b>Vacuum Dehydration Unit</b></p> <p>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.</p>	<p>NEW</p> <p>Michigan</p>

Dryer/Spray Dryer		1 Items
-------------------	--	---------

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

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

<b>Electrical/Transformer</b>	<b>2 Items</b>
-------------------------------	----------------

<a href="#">Transformer (25kva)</a> Asset ID: 7882 Hitachi Energy	<b>Transformer</b>  Liquid-Filled MTR Mini-Pak Padmounted Transformer- 25 KVA 2400VGY – 240/120V radial feed, one phase, 60Hz. Serial # 1LUJ250178772388. Includes bushings: loadbreak inserts, bushing wells and secondary studs. Fuses: partial range cl fuse in series with bayonet. Pressure relief valve. Manufactured by Hitachi Energy. Two available. Priced separately.	NEW
		Missouri
<a href="#">Transformer (50kva)</a> Asset ID: 7883 Hitachi Energy	<b>Transformer</b>  Liquid-Filled MTR Mini-Pak Padmounted Transformer- 50 KVA 2400VGY – 240/120V radial feed, one phase, 60Hz. Serial # 1LUJ250178772392. Includes bushings: loadbreak inserts, bushing wells and secondary studs. Fuses: partial range cl fuse in series with bayonet. Pressure relief valve. Manufactured by Hitachi Energy. Two available. Priced separately.	NEW
		Missouri

<b>Filters/Bag Filter</b>	<b>1 Items</b>
---------------------------	----------------

<a href="#">Bag Filters 4" ss</a> Asset ID: 8817 PRM Filtration	<b>Bag Filter NEW 4-Bag with 4" Connections</b>  NEW Bag Filter 4" inlet / outlet. Manufactured by PRM Filtration. Model BFHBFM4SSXV2. Rated 150 psig / 525 gpm. Uses (4) #2 size filter bags (7-1/16" dia x 32" L). Easy open top with toggle bolts and handwheel.. In stock - ships immediately, subject to prior sale. Price includes shipping and delivery to areas of the US from the middle to Eastern US. Delivery to West of that will be slightly more. Qty (4) available ( priced separately )	NEW
		North Carolina

<b>Filters/Membrane</b>	<b>1 Items</b>
-------------------------	----------------

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

<p><a href="#">Solvent Recovery Membrane Skid</a> Asset ID: V2267 SciPhy</p>	<p><b>SciPhy X-Spiral 2.5 Solvent Recovery Like NEW - Still in Crate</b></p> <p>SciPhy solvent recovery, dewaxing, and color remediation system. Rated at 60 gph. Membrane skid still in crate, includes compressor and pneumatic motor and tank. This is an affordable nanofiltration membrane recovery system (OSN). <b><i>This machine is in excellent shape - selling as used but has only been used less than a dozen times</i></b></p> <ul style="list-style-type: none"> <li>• Complete Control Over Product Purity: The X-Spiral gives operators full control over concentration of solution.</li> <li>• No Solvent Phase Change: Creates greatly reduced energy use that lowers operating expenditure and raises profit margins.</li> <li>• All In One Skid Including Utilities: No boiler or cooling tower necessary means greatly reduced startup and commissioning time.</li> <li>• Highly Efficient: Unique dual pump system only uses a third of the energy of other single pump systems.</li> <li>• Full Parameter Control. Design features and mounted HMI provide ease of use and optimal workflow.</li> <li>• Affordable Membranes. X-Spiral uses lower cost membranes than many competitors.</li> </ul> <p>Shipping dimensions: 2 pieces Membrane skid already on a pallet 45" x 49" long x 54" tall, weight 567 pounds Also box of replacement filters size 16 x 16 x 50" long, weight 50 pounds</p> <p>SHIPPING. Bset to ship crate LTL, and send box via USPS or UPS.</p>	<p>Like New</p> <p>Texas</p>
--	---	------------------------------

<b>Filters/Pressure Leaf</b>	<b>1 Items</b>
------------------------------	----------------

<p><a href="#">Filtration Skid - Pilot Size</a> <b>NEW</b> Asset ID: 7467 Leem</p>	<p><b>New Filtration Skid - Pilot Size</b></p> <p><b>Stainless Steel Skid mounted self contained filter skid. All wetted parts stainless steel 304</b></p> <p>Leem Model 24-MVS-40 Vertical Tank, Vertical Leaf, Pressure Leaf Filter Skidded Unit. MAWP ASME and stamped - rated for 90 psig at 300F &amp; Full Vacuum.</p> <ul style="list-style-type: none"> <li>• 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 &amp; 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.</li> <li>• Includes all necessary ball valves, gaskets, and piping</li> <li>• Slurry tank - 160 gallon pre-coat tank, motor &amp; pump unit: 1x2-8 pump, 3500 RPM, 5 HP; Agitator: Neptune model NO. JG-4.0, gear drive mixer</li> <li>• Control panel mounted to skid.</li> <li>• Entire assembly mounted to 304 SS support skid.</li> </ul> <p>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 <b>Rental</b> on a per month basis, first come, first served.</p>	<p>NEW</p> <p>New Jersey</p>
--	--	------------------------------

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

Material Handling		2 Items
<a href="#">Compressor Oil Gas &amp; Process</a> 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 remaining.	NEW
		Peoria, IL
<a href="#">Compressor Oil Turbo</a> 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

Packaging/Vertical Form Fill		1 Items
<a href="#">Vertical Form Fill Machine VFFS</a> Asset ID: 1085 Prodo-Pak	<p><b>Like New Vertical Form Fill &amp; Seal Machine (VFFS)</b></p> <p>by Prodo-Pak. Tested - never used in production. VFF.</p> <ul style="list-style-type: none"> <li>One Model 4S 3P 320 line 3-lane with Laser etching printer. Fill rate at 150 to 180 pouches/minute.</li> </ul> <p>Machine Size 7.5 ft x 7.5 ft x 9 ft tall 5,000 pounds</p> <ul style="list-style-type: none"> <li>Fill volume 1.0 to 3.0 ml. Pouch width 1.5 inches, pouch length 3.0 inches</li> <li>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.</li> </ul> <p>Includes the following additional pieces:</p> <ul style="list-style-type: none"> <li>Pump skid 80 inch x 48 inch x 60 inch tall 600 pounds</li> <li>Video Jet laser printer 7 ft x 7 ft x 77 inch tall 700 pounds.</li> <li>Video Jet fumes extractor 4 ft x 4 ft x 5 ft tall 300 pounds.</li> </ul> <p>See LINKS for specifications.</p>	Like New
		New Jersey

Plants/Hydrogen	1 Items
-----------------	---------

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

<p><a href="#">Hydrogen PSA System 1.3 MMSCFD</a> Asset ID: 7251 Honeywell</p>	<p><b>PSA System (pressure swing adsorption)</b></p> <p><b>New, Never Installed</b></p> <ul style="list-style-type: none"> <li>• Built by Honeywell UOP in 2023 - New, never installed.</li> <li>• Rated at 1.3 MMSCFD (million standard cubic feet per day). OUTPUT 1,534 Nm3/Hr. INPUT 2.05 MM SCFD</li> <li>• PSA adsorber vessels rated at 235 psig at 34F / 168F. There are 5 PSA Vessels</li> <li>• Plant footprint is 50 ft x 17 ft.</li> <li>• Allen Bradley 1756 PLC control system.</li> <li>• Two years of operation spare parts available.</li> <li>• Unused Adsorbent available.</li> </ul> <p>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%.</p> <p><b>Technical Specs and Drawings on Request</b></p>	<p>NEW</p> <p>Texas</p>
--	---	-------------------------

Plants/TCD Thermocatalytic Depolymer

1 Items

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

<p><a href="#">TCD Pilot Plant Depolymerization 6 TPD</a> Asset ID: PK-8835</p>	<p><b>Thermocatalytic Depolymerization Pilot Plant 6 TPD</b></p> <p><b>This plant is NEW - While installed it was commissioned on water, then drained and idled. Now removed - ready to ship, modularized. This plant is 100% operational and has all the drawings, control narrative and all back-up documents</b></p> <p>General Capacity INFEED Lignocellulosic Feed 125 kg/hr plus 125 kg/hr petroleum/Bio hydrocarbon.</p> <p>OUTFEED Distillate 152.5 kg/hr, Solids 52.4 kg/hr, and water 25 kg/hr. See PFD for details Designed to employ a thermo-catalytic depolymerization/cracking process to break down long chain hydrocarbons and/or organic materials into smaller molecules. These molecular fragments are useful feedstocks that can be further refined into fuel or chemical precursors. The unit was designed to use lignocellulosic solid feed (weathered rail ties and wood waste from sawmills) along with either petroleum-based (used motor oil) or biologic-based carrier fluid (seed oil) as carrier fluids. Can be configured in many ways with various bio feedstocks and carrier fluids. See Overall Description in Links</p> <p><b>Major Components - See Listing in LINKS</b> MCC included. Electrical 460v 60Hz Explosion proof Class 1 Div 2 The unit can be re-purposed/retrofitted to serve other processes such as:</p> <ul style="list-style-type: none"> <li>• Chemical reclaiming, regeneration, or, purification (for example, amines used in gas sweetening, glycols used in gas dehydration, lubrication oil).</li> <li>• Zero liquid discharge water purification via evaporation and crystallization/solids discharge.</li> <li>• Slop/off-spec oil treatment.</li> <li>• Essential/plant oil extraction.</li> <li>• Natural gas sweetening or dehydration.</li> <li>• Biomass or waste pyrolysis/hydrothermal liquefaction.</li> <li>• Contaminated soil or solids remediation.</li> <li>• Slurry metal extraction/leaching.</li> <li>• Plastics recycling, remelter and reclaimer to separate out solids from waste thermoplastics or for a pyrolysis processing</li> <li>• Medical/bio-hazardous waste treatment/recycling.</li> <li>• Sulphur de-gassing and/or remelting.</li> </ul>	<p>NEW</p> <p>Canada</p>
---	---	--------------------------

Presses/Expeller		1 Items
<p><a href="#">Press 60 to 95 MTPD</a> Asset ID: 5450 Shann</p>	<p>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.</p>	<p>NEW</p> <p>Wisconsin</p>

Process/CIP / COP		1 Items
-------------------	--	---------

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

<p><a href="#">COP Tanks &amp; Systems</a> Asset ID: 1975 China</p>	<p>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.</p> <ul style="list-style-type: none"> <li>• For 6 foot long COP tank subtract \$1,500 from quotation</li> <li>• For 8 foot long COP tank subtract \$600 from quotation</li> <li>• For 12 foot long COP tank, add \$1,350 to quotation</li> <li>• Note: a pipe draining rack can be provided, we can furnish COP tanks with or without recirculating pump</li> </ul> <p>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</p>	<p>NEW</p> <p>Long Beach, CA</p>
---	---	----------------------------------

Process/Reactor		2 Items
<p><a href="#">Fischer-Tropsch Reactors</a> Asset ID: B-1012 Velocys</p>	<p><b>Velocys Fischer-Tropsch Reactors - NEW, Never Used</b></p> <p>Capacity Design Rate at 175 bbl/day. New Reactors using Fischer-Tropsch technology.</p> <ul style="list-style-type: none"> <li>• Velocys has a patented catalyst and microchannel reactor system that enables production of SAF and Renewable Diesel from a vast range of sources.</li> <li>• Microchannel reactor provides a compact modular and scalable solution</li> <li>• Catalysts enable high volumetric productivity, 6-10 times that of traditional FT technology</li> <li>• System can achieve high per-pass and overall CO conversion and maximize throughput at same fresh syngas to reduce c.5% OPEX</li> </ul> <p>Quantity (4) reactors - priced separately Also available (6) charges of catalyst for these 4 reactors at an additional cost</p>	<p>NEW</p> <p>Houston, TX</p>
<p><a href="#">Reactor Hydrogenation</a> Asset ID: 1751 DVC Process Technologies</p>	<p>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</p>	<p>NEW</p> <p>India</p>

Process/Vacuum		1 Items
----------------	--	---------

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

<p><a href="#">Ultra High Vacuum System</a> Asset ID: V1001</p>	<p><b>Ultra-high Vacuum (UHV) system</b></p> <p>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<sup>(-9)</sup> to 1 x 10<sup>(-10)</sup> torr. Main pieces listed below - See Details of each in Link.</p> <p><b>Features</b></p> <ul style="list-style-type: none"> <li>• Vacuum Chamber: Ultra-high vacuum chamber with all sensors / gauges to simulate the space environment of geosynchronous satellites</li> <li>• Pumping System, Pfeiffer molecular diffusion vacuum pump</li> <li>• Temperature Control</li> <li>• Monitoring and Control System</li> <li>• Safety System, interlocks</li> </ul> <p><b>Capabilities</b></p> <ul style="list-style-type: none"> <li>• Radiation Simulation</li> <li>• Solar Simulation</li> </ul>	<p>Like New</p> <p>Colorado</p>
---	--	---------------------------------

Pump/Sump		1 Items
<p><a href="#">Sump Pump</a> Asset ID: 1945 Pumpworks</p>	<p>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</p>	<p>NEW</p> <p>Indiana</p>

Tanks & Pressure Vessels/Stainless		1 Items
<p><a href="#">Vertical Tanks ss NEW 550 gallons</a> Asset ID: V2257 Owin International</p>	<p>Vertical stainless steel tanks on legs, NEW. insulated with (2) electric heater bands. Approx size 48" dia x 92 inches tall s/s on 15" legs. Bottom slight cone. Capacity approx 550 gallons. Atmospheric tank. Insulation 1 3/4" thick. Has 2 bands on tank Trivolt electric heater band each band rated at 1000 watts and 120 volts. See drawings. Quantity (2) tanks - priced separately</p>	<p>Like New</p> <p>Texas</p>