

Just Purchased — Pharmaceutical API Plant #2 Liquidation – All Late Model Equipment!
Includes (2) Hastelloy Reactors • (18) Glass Lined Reactors • (4) Stainless Steel Tray Dryers • (19) High Alloy Heat Exchangers / Condensers • (1) Heinkel Filter Centrifuge • (3) Chillers & Cooling Towers • (3) Vacuum Pump Systems • (11) Sparkling, Nutsche, & Misc. Filter Systems • And Much More!

Centrifuges

- 6749 30" Dia Tolhurst Hastelloy Basket Flip Top Centrifuge, 680-1360 RPM
- 6624  Heinkel Inverting Filter Centrifuge, Model HF300.1, Hastelloy C-22 Construction, 300 mm (12") Bowl Diameter, 6.6 L bowl capacity, 0.1 Sq Meter Surface Area



Chillers & Cooling Towers

- 6736  450 Ton Trane CentraVac Model CVHE 450 Chiller, R123 refrigerant
- 6737 450 Ton Trane CentraVac Model CVHE 450 Chiller, R123 refrigerant
- 6740 150 Ton Syltherm Chiller, Manufactured by Frick, Refrigerant R22. Outlet temperature -19 F, saturated compressor suction temp -30.3 F. Motor 234 @ 3550 RPM. Min low side temperature -50 F @ 120 psi. Skid mounted with (2) 250 HP 3/60/4160V @ 3575 RPM XP motors and (1) Frick Quantum LX compressors. Approx dimensions - 13' wide x 22' long x 10 high. Built 2000



Dryers – Tray / Shelf

- 6732 110 Sq Ft Stainless Steel Vacuum Tray Dryer, Built 1999
- 6734 110 Sq Ft Stainless Steel Vacuum Tray Dryer. Chamber rated 4 Bar (60 PSI) / FV. (9) 316L trays approx 43" x 37" x 1", 5" spacing between shelves. Mfg by PINK Thermosysteme GmbH, 1999. Model VT-1100-950-1550-10. S/N: 20004664. Exterior dims: 58"W 56"D x 77"H. Approx 5070 Lbs. Complete with portable Lauda electric indirect water cooled heating/cooling transfer system, 24KW, 460V/3/60 with PID Control panel. Heating capacity 120 deg C. Type ITH-350-W-Ex, S/N: X17201
- 6735  110 Sq Ft Stainless Steel Vacuum Tray Dryer, Built 1999
- 6733 45 Sq Ft Stainless Steel Vacuum Shelf Dryer, Built 1997



Evaporator – Rotavapor

- 6790 Buchi Rotavapor 176 with Huber Unistat Chiller T326

Filters – Sparkler & Nutsche

- 6759  36" Dia Pfaudler Glass Lined Nutsche Filter, 50/150 #, Built 2005
- 6757 30" Dia Estrella Glass Lined Nutsche Filter, Built 1983
- 6758 24" Dia Estrella Glass Lined Nutsche Filter, 50/50 #, Built 1985
- 6754 18" Dia Sparkler Filter, Hastelloy C -22, 304SS jacket, Model #18-D-6, 60/75 #, Built 2009
- 6755 18" Dia Sparkler Filter, 316/304 SS, Model 18 D 6, 75/75 #, Built 1990
- 6756 18" Dia Sparkler Filter, 316 SS, Model 18 D 6, 60/75 #, Built 1995
- 6760 18" Dia Sparkler Filter, 316/304 SS, Model 18 D 6, 75/75 #, Built 1990
- 6761 14" Dia Sparkler Filter, 316/304 SS, 60/30 #, Built 1980



Filters Misc.

- 6766 Ertel-Alsop Liquid Filter
- 6767 Ertel-Alsop Engineering, Model #PAK-12P-1716, Serial #3066-PA, Liquid Filter

Floor Scales

- 6770 500 Kg Max Portable Toledo Puma Floor Scale. Battery Powered, Class 1 Division 1
- 6771 500 Kg Max Portable Toledo Puma Floor Scale. Battery Powered, Class 1 Division 1
- 6772 100 Kg Max Portable Toledo Puma Floor Scale. Battery Powered, Class 1 Division 1
- 6773 500 Kg Max Portable Toledo Puma Floor Scale. Battery Powered, Class 1 Division 1
- 6774 500 Kg Max Portable Toledo Puma Floor Scale. Battery Powered, Class 1 Division 1
- 6775 500 Kg Max Portable Toledo Puma Floor Scale. Battery Powered, Class 1 Division 1
- 6776 500 Kg Max Portable Toledo Puma Floor Scale. Battery Powered, Class 1 Division 1
- 6777 500 Kg Max Portable Toledo Puma Floor Scale. Battery Powered, Class 1 Division 1

- 6778 500 Kg Max Portable Toledo Puma Floor Scale. Battery Powered, Class 1 Division 1
- 6779 500 Kg Max Portable Toledo Puma Floor Scale. Battery Powered, Class 1 Division 1
- 6780 500 Kg Max Portable Toledo Puma Floor Scale. Battery Powered, Class 1 Division 1
- 6781 500 Kg Max Portable Toledo Puma Floor Scale. Battery Powered, Class 1 Division 1
- 6782 500 Kg Max Portable Toledo Puma Floor Scale. Battery Powered, Class 1 Division 1
- 6783 500 Kg Max Portable Toledo Puma Floor Scale. Battery Powered, Class 1 Division 1
- 6784 500 Kg Max Portable Toledo Puma Floor Scale. Battery Powered, Class 1 Division 1
- 6785 500 Kg Max Portable Toledo Puma Floor Scale. Battery Powered, Class 1 Division 1
- 6786 500 Kg Max Portable Toledo Puma Floor Scale. Battery Powered, Class 1 Division 1
- 6787 Avery Berkel Pallet Jack with Scale, Battery Powered, Class 1 Division 1
- 6788 350 Kg Max Portable Toledo Puma Floor Scale. Battery Powered, Class 1 Division 1
- 6789 350 Kg Max Portable Toledo Puma Floor Scale. Battery Powered, Class 1 Division 1

Heat Exchangers & Condensers

- 6701 80 Sq Ft Titan Metal Fabricators Tantalum Vertical Exchanger, 150/150 #, Built 2009
- 6702 80 Sq Ft Titan Metal Fabricators Tantalum Vertical Exchanger, 150/150 #, Built 2009
- 6709 80 Sq Ft AstroCosmos Metallurgical Tantalum Vertical Exchanger, 150/150#, Built 1999
- 6710 80 Sq Ft AstroCosmos Metallurgical Tantalum Vertical Exchanger, 150/150#, Built 1999
- 6703  55 Sq Ft Titan Metal Fabricators, Inc. Tantalum Vertical Heat Exchanger. Shell rated 150 PSI and full Vacuum @ 347 F, tubes rated 150 psi and full vacuum @ 347 F. TEMA Type BEMV, 75 1/4" OAL. Expansion joint. (75) - 3/4" OD x 0.015" avg. wall tantalum with 2 % tungsten tubes. (1) 3" tubeside inlet, (1) 2" tubeside outlet; (1) 2" vapor outlet; (1) 2" shellside inlet, (1) 2" shellside outlet. Serial #14120-1-1, Built 2009. Weight -915 lbs. Previous Use: API Pilot Plant
- 6704 55 Sq Ft Titan Metal Fabricators Tantalum Vertical Exchanger, 150/150 #, Built 2009
- 6707 45 Sq Ft RAS Process Equipment Hastelloy Vertical Exchanger, 150/150 #, Built 1999
- 6708 45 Sq Ft RAS Process Equipment Hastelloy Vertical Exchanger, 150/150 #, Built 1999



- 6713  45 Square Feet AstroCosmos Metallurgical, Inc. Tantalum Vertical Heat Exchanger / Condenser. Shell rated 150 psi and full vacuum @ 350 F, tubes rated 150 psi and full vacuum @ 350 F. Type BEM 10-1-48, 73" OAL. Expansion joint. (58) 3/4" tubes, 0.015" thick, (tantalum 2.5% w). (1) 3" vapor inlet, (1) 3" vapor outlet; (1) 2" x 4" coolant inlet, (1) 2" coolant outlet; (1) 1" liquid drain. Serial #71239, National Board #992, Built 2000. Weight - 540 lbs. Previous Use: API Pilot Plant



- 6714 45 Sq Ft AstroCosmos Metallurgical Tantalum Vertical Exchanger, 150/150#, Built 1999
- 6715 40 Sq Ft AstroCosmos Metallurgical Tantalum Vertical Exchanger, 150/150#, Built 1999
- 6716 40 Sq Ft AstroCosmos Metallurgical Tantalum Vertical Exchanger, 150/150 #, Built 2000
- 6743 40 Sq Ft RAS Process Equipment Hastelloy Horizontal Heat Exchanger 150/300 #, Built 1999
- 6725 35 Sq Ft AstroCosmos Metallurgical Tantalum Horizontal Exchanger, 150/150 #, Built 1999
- 6726 35 Sq Ft AstroCosmos Metallurgical Tantalum Horizontal Exchanger, 150/150 #, Built 1999
- 6627 35 Sq Ft AstroCosmos Metallurgical Tantalum Horizontal Exchanger, 150/150 #, Built in 1999
- 6628 35 Sq Ft AstroCosmos Metallurgical Tantalum Horizontal Exchanger, 150/150 #, Built in 1999
- 6723 25 Sq Ft RAS Process Equipment Hastelloy Horizontal Exchanger, 150/150 #, Built 1999
- 6724 25 Sq Ft RAS Process Equipment Hastelloy Horizontal Exchanger, 150/150 #, Built 1999
- 6625 25 Sq Ft AstroCosmos Metallurgical Tantalum Horizontal Exchanger, 150/150 #, Built 1999
- 6626 25 Sq Ft AstroCosmos Metallurgical Tantalum Horizontal Exchanger, 150/150 #, Built in 1999
- 6721 15 Sq Ft AstroCosmos Metallurgical Tantalum Horizontal Exchanger, 150/150 #, Built 1999
- 6722 15 Sq Ft AstroCosmos Metallurgical Tantalum Horizontal Exchanger, 150/150 #, Built 1999

Oxygen Analyzers

- 6768 Oxygen Analyzer, Panometrics Oxygen Analyzer Sample System
- 6769 Neutronics Oxygen Analyzer
- 6765 Oxygen Analyzer, Panometrics Oxygen Analyzer Sample System

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Pumps – Vacuum Pump Systems

- 6752 720 CFM Busch Dry Screw Vacuum Pump System, Built 1997
- 6750 250 CFM Busch Dry Screw Vacuum Pump System, Built 2010
- 6751 250 CFM Busch Dry Screw Vacuum Pump System, Built 2010

Reactors – Glass Lined

- 6744  500 Gal Pfaudler Glass Lined Reactor, Rated 125 PSI and Full Vacuum @ 450 F internal, Jacket Rated 100 PSI and Full Vacuum at 450 F. Type 9119 Dark Blue Glass. Welded dish top. Lug mounted. VMX 250 drive. Shell 48" Diameter, (1) 14" x 18" Clamp Cover, (2) 4" Inlet nozzles, (2) 6" inlet nozzles, (1) 4 3/8" Inlet nozzle, (3) 3" inlet nozzle, (1) 3" outlet. Serial # J062890, Built 2005. Previous Use: API Pilot Plant



- 6700  300 Gal Pfaudler Glass Lined Reactor, rated 100 psi and full vacuum at 450 F internal, jacket rated 105 psi and full vacuum at 450 F. Type 9119 Dark Blue Glass. Bolted top, Cone bottom. 316L Stainless Steel sheathing. Lug



mounted. 48" ID x 37 3/8" straight side. VMX-250 drive assembly. Motor - 5 hp, 3 phase, 60 hertz, 230/460 volt, 1800 RPM, explosion proof. Baffle - One fin baffle. Agitator - dual flight, 22" span upper pitch blade turbine and 26" span chevron lower, designed for counter-clockwise rotation. Top Head Openings: (1) 4 3/8" drive nozzle, (1) 8" nozzle, (1) 6" nozzle, (2) 4" nozzles, (1) 3" nozzle. Bottom Head Openings: (1) 3" nozzle. Serial #J081943, National Board # 52254, Built 2009. Weight - 4121 lbs. Previous Use: API Pilot Plant

- 6711 300 Gal De Dietrich Glass Lined Reactor, 100/150 #, Built 1999
- 6705 200 Gal Pfaudler Glass Lined Reactor, 100/120 #, Built 2009
- 6747 200 Gal Pfaudler Glass Lined Reactor with all stainless body, 100/90, Built 1993
- 6745 200 Gal Pfaudler Glass Lined Reactor, Built 2005
- 6742 150 Gal Pfaudler Glass Lined Reactor, 150/125 #, Built 1993
- 6712 150 Gal De Dietrich Glass Lined Reactor, 100/150 #, Built 1999
- 6717 100 Gal De Dietrich Glass Lined Reactor, 100/150 #, Built 1999
- 6741 100 Gal Pfaudler Glass Lined Reactor, 300/150 #, Built 2000
- 6746 100 Gal Pfaudler Glass Lined Reactor, 25/95 #, Built 1991
- 6720 75 Gal De Dietrich Glass Lined Reactor, 100/150 #, Built 1999
- 6622 75 Gal De Dietrich Glass Lined Reactor, 100/150 #, Built in 1999
- 6718 50 Gal Pfaudler Glass Lined Reactor, 150/125 #, Built 2007
- 6623 50 Gal De Dietrich Glass Lined Reactor, 100/150 #, Built 1999

Reactors – Units with QVF Glass

- 6727  Unused 21 Gal De Dietrich Glass Lined Reactor, Rated 15 PSI and Full Vacuum @ 482 F Internal, Jacket Rated 145 PSI and Full Vacuum @ 482 F. Type 3009 Glass. QVF top. 304 Stainless Steel Sheathing. Lug Mounted. 18" OD x 23 27/64" Deep. Variable Speed Drive. With (2) 20 Liter QVF Receivers, (1) QVF Vent Condenser, (1) 20 Liter QVF Load Tank, (1) Horizontal Shell & Tube Primary Condenser, and (1) Heat Transfer Skid (Mfg by Budzar Industries). Built 2006



- 6730 20 Gal De Dietrich Glass Lined Reactor, atmospheric/145 #, Built 2003

Reactors – Buchi Systems with QVF Glass

- 6731 100 L Buchi Glass Reactor, -1.0/+0.4 bar @ -85/+200 C, -1.0/+10 bar @ -85/+200 C, Built 2003
- 6728 30 L Buchi Glass Reactor, +0.5/-1.0 bar @ +200/-50 C, +10/-1.0 bar @ +200/-60 C, Built 2003
- 6729 30 L Buchi Glass Reactor, +0.5/-1.0 bar @ +200/-50 C, +10/-1.0 bar @ +200/-60 C, Built 2003

Reactors – Hastelloy

- 6706 150 Gal Robin Hastelloy C-22 Reactor, Internal Rated 100/150 #, Built 1999
- 6719 50 Gal Robin Hastelloy C-22 Reactor, Internal Rated 100/150 #, Built 1999

Scrubbers

- 6763 PEP Scrubber System, PO # 7077, Date 3/3/05, PV DF Scrubber L / Var. Scrubber on skid

Tanks

- 6738 1000 Gal Northland Stainless Inc vertical stainless steel tank, Built 1999. With #6739
- 6748 225 Gal Stainless Steel DCI tank
- 6753 53 Gal Glass Lined Tycon Portable Vessel, Built 2001
- 6764 Alloy Products Vessel on Platform w/ wheels. 130 @ 150 F, with Pupecentric Drive



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