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**SYSTEMS
LINECARD**

calwestmashy.com

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3V Tech

Glass lined reactors
Glass repairs
Filters & Dryers

Ascension Industries

Precision Turnkey Manufacturing
Services
Pressure Vessels

Bionomic Industries

Collectors
Scrubbers
Precipitators

LEWA

Metering pumps
Process diaphragm pumps
Packaged metering systems
Chromatography systems

3V Tech product portfolio covers the full range of chemical synthesis from reaction to distillation to separation and drying. The production of glass lined process equipment is 3V Tech's speciality having a 40 year history in producing process equipment for the chemical synthesis and the pharmaceutical industries. The cGMP design, clean room suitable and high containment equipment has been a hallmark of 3V Tech.

quick facts

- Temp ranges from -120 to 300°C
- Cooling capacities up to 30kW
- Air or water cooled condensers
- Single stage compressor
- Rapid transition rates
- Cascade cooling



applications

- Active pharmaceutical ingredients
- API & HAPI
- Agrochemical
- Extractions
- Purification
- Convention drying
- Drying filtered cakes
- Alcohol
- Bulk chemicals
- Pharmaceuticals
- Foods
- Essences
- Fragrances
- Aromas
- Flavors
- Waste and sludge treatment
- Pyrolysis
- Thermal desorption
- Biofuels

industries

- Food
- Pharmaceutical
- Biotech
- Biofuel
- Chemical

qr codes



More Info



Solutions



Caustic Soda



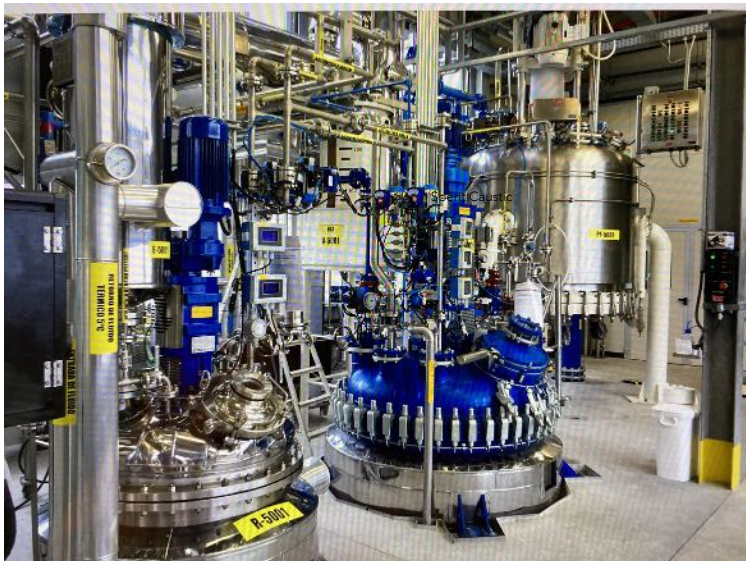
Oil Re-refining



Spent Caustic



Wet Air Oxidation



LINED / ALLOY REACTOR, DRYER & FILTER SYSTEMS

Ascension Industries occupies 140,000 square feet of manufacturing space with compatible overhead traveling cranes (up to 50-ton capacity) that make nothing too big, or too small, to be produced at this facility. From product concept review to materials selection, innovative product design at every stage, materials selection, project management, skilled manpower, instrumentation expertise / PLC programming & testing services, skid packaging & assembly, light & heavy manufacturing. Complete electrical, mechanical, pneumatic, hydraulic assembly & testing.

quick facts

- Reactors up to 13 feet in diameter
- Reactors up to 80 feet in length
- ASME Vessels
- U, R, NB & PED stamps
- China code stamp
- API 620 & 650 Fab



applications

- Amines
- Biodiesel
- Color-alkali
- Molten sulfur
- Metal hydroxides
- Sludge cakes
- Solvent removal
- Acids
- Bases
- Solvents
- Oils & Pigments
- Catalysts
- Brines & Resins
- Propellants/explosives
- Scrubber sludge
- Fermentation pre-filters
- Municipal water

qr codes



More Info



industries

- Chemical
- Food & beverage
- Mining
- Waste water
- Metals
- Pulp & Paper
- Energy
- Toiletries
- Cosmetics
- Biofuels

The industry leader in conventional and advanced gas cleaning and recovery technologies for more than 40 years. From initial inquiry and on-site evaluation, through engineering design, manufacture, installation, and start-up, Bionomic partners with our customers' every step of the way to ensure pollution problems and compliance issues are completely solved whether particulate, mist, aerosol or odor causing pollutants.

quick facts

- Dry collectors
- Wet scrubbers
- Packaged scrubber systems
- Electrostatic precipitators
- Bio-scrubbers/filters



qr codes



More Info

applications

- Dust and particulate scrubbing
- Dust and particulate collection
- Acid gases
- NOX control
- Mercury removal
- Biological treatment of:
 - Gaseous organic compounds
 - Waste heat recovery
 - Chemical recovery and production

industries

- Mining
- Chemical
- Pharmaceutical
- Plastics
- Food
- Energy
- Pulp & Paper
- Hazardous Waste
- Wastewater
- Biomass
- ...and more



METERING & PROCESS DIAPHRAGM PUMP SYSTEMS

The gold standard for safety, reliability, accuracy, repeatability and efficiency especially when it comes to pumping difficult fluids (i.e. abrasive, super critical fluids, liquified gas, and blowing agents). Excellent with high and low temps and pressures. Very low maintenance and extremely long service life for diaphragms. API 675.

quick facts

Micro-metering up to 47,500 gph
Pressures up to 17,000 psi
Temps up to 750 deg F
Industrial/Sanitary Models



applications

Virtually any fluid including:
Methanol Injection
Polymerization
Wet Oxidation
Extraction Supercritical Fluids
Melamine
Biodiesel
Pharma Spray Drying
Flue Gas Cleaning
Liquified CO2.



industries

Oil & Gas / Refineries
Petrochemical
Chemicals, Cleaners
Detergents
Personal Care
Pharma, Life Sciences
Biotech
Food & Beverage
Pulp/Paper
Energy / Utilities
Clay refining
Mining
Textiles
Metal Processing & Recovery
Nuclear facilities
Paint, Glass
Ceramics Cosmetics

qr codes



More Info



Odorization



Large Pump Skids



Chemical Injection



Oil & Gas

