



PROCESS & NON-WATER PROCESS APPLICATION UNITS

“Let’s Save Energy And Wastes To Recover With Latest Technologies”

Blue & Green Solutions is proud to introduce Lab Scale, Pilot, Packaged, Mobile, Tailor-Made Process & Non-Water Process units with complete design & engineering in collaboration with world class technology providers for multiple applications in multiple industries.

Process Water Applications

- Demineralization.
- Softening.
- Side Stream Filtration.
- Process water for food contact.
- Process water cleanup & recycle.
- Boiler Condensate Polishing.
- Removal of Oil.
- Process Condensate Polishing & Treatment.
- Ingredient water for beverages.
- Evaporator condensate polishing.
- Tire condensate polishing.
- Fruits & Vegetable fume water.
- Oil Filtration.
- Removal of Iron.
- Removal of Heavy Metals.



Non-Water Process Applications

Fine Chemistry/Pharmaceutical Industry

- Gentle API concentration & purification.
- Room temperature solvent exchange.
- Broths for antibiotics production.
- Non-Thermal solvent recovery & management.
- Amino acids production.
- Enzyme solutions.
- Purification of organics.

Oil & Petro Chemistry

- Removal of tar components in FCC feed.
- Purification of gas condensates.
- Purification & desalination for nanometer particles slurry.
- Dewaxing.
- Used oil recovery.



Bulk Chemistry

- Continuous recovery of homogeneous catalysts.
- Decolorization of products.
- Product polishing.

Natural Oils & Products

- Fractionation of crude extracts.
- Enrichment of natural compounds.
- Natural oil processing.
- Gentle separations.

Food & Beverage Applications

- Lactose & cheese whey concentration.
- Milk concentration.
- Cheese whey desalting.
- Brine clarification.
- Pharma grade lactose.
- Demineralization of milk product.
- Protein retention.
- Yogurt concentration & fat removal.
- Fruit & vegetable juice.
- Clarification of Vinegar, Soy.

Sugar & Alcohol Applications

- Concentration of diluted sugar streams.
- Agribusiness.
- Sugar concentration.
- Wine adjustment.
- Wine de-acidification.
- Wine clarification.
- Whisky distillation recovery.
- Corn wet milling.

Biofuels

- Acetic acid purification & concentration.
- Concentration of aqueous sugar streams
- Separation of dissolved chemicals from a aqueous sugar stream.
- Purification of organic acids from fermentation processes.
- Separation of hemicelluloses sugars (mainly xylose) from dilute acetic acid solutions.
- Ethanol purification.

Dextrose Purification

- Sugar fractionation.
- Sugar demineralization.

Metal Industry

- Chromic Acid removal & recovery.
- Recovery of Nickel & Copper.
- Recovery of Precious Metals.
- Recovery of Copper.
- Recovery of Tungsten.
- Purification of Phosphoric Acid.
- Purification of Nickel Sulfate.



Features

- Conventional & Specialty Resins.
- Ceramic Membranes.
- Tubular Membranes.
- Integrated Membranes with MF/UF/NF/RO.
- Pervaporation/Vapor Permeation Membranes.
- Main components on the skids consists of membrane module, feed tank, centrifugal/dosing pump, flow/pressure/temperature meters, back flush tank, control panel, valves, piping.
- Material of construction like SS304, SS316/316L, Titanium, FRP, UPVC, CPVC.
- Material of seals like EPDM, Fluoro Rubber, Silicon.

To know more get in touch with us!!

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"think green & save blue"
"a water engineering company"