

# 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.

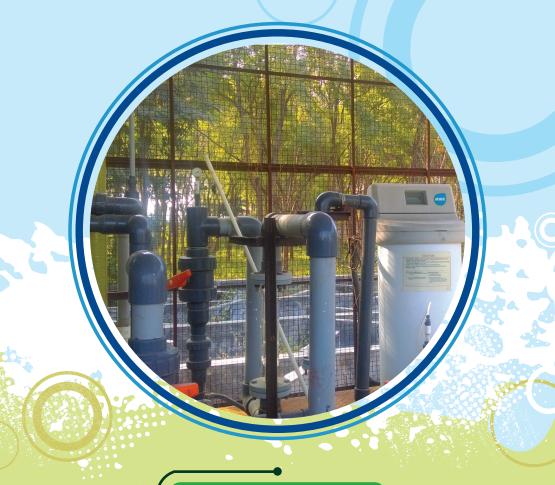
Tire condensate polishing.

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.

- Dewaxing.
- Used oil recovery.
- Purification & desalination for nanometer particles slurry.



# **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"