



FOR ETHANOL FILTRATION



LAKOS Solutions for ETHANOL PLANTS

- **Minimize Maintenance:** Optimize CIP processes through reduced equipment maintenance
- **Lower Energy Costs:** Effortlessly remove dirt and debris from cooling towers and heat exchangers
- **Extend Pump Life:** Reduce pump impeller wear by removing sand from source water

LAKOS SYSTEMS ARE
INSTALLED AT:

- Green Plains Energy
 - Golden Grain Energy
 - Cardinal Ethanol
 - Alto Ingredients
- and many more...*



MOST COMMON FILTRATION SOLUTIONS IN ETHANOL PLANTS

	PROBLEM AREAS	KEY LAKOS BENEFITS
	CLEAN IN PLACE (CIP)	<ul style="list-style-type: none"> • Removes sand, silt and fibrous materials • Minimizes equipment maintenance • Protects productivity
	COOLING TOWERS	<ul style="list-style-type: none"> • Saves money with less downtime and maintenance • Increases entire system productivity and assists with overall system energy savings • Handles large flows with limited footprint
	HEAT EXCHANGER	<ul style="list-style-type: none"> • Lowers energy costs due to improved heat transfer capacity • Reduces maintenance on plate and frame/shell and tube heat exchangers • Increases system efficiency by reducing fouling
	PLANT SOURCE WATER	<ul style="list-style-type: none"> • Extends pump life by removing sand and silt • Increases pump efficiency • Eliminates the need for backwashing

LAKOS JPX SEPARATORS ARE A COMMON CHOICE FOR ETHANOL FILTRATION

The JPX is an independently tested liquid-solids separation system designed to protect fluid-handling systems from unwanted solids. These separators operate trouble free with purging/solids-handling capabilities to remove settleable solids from fluids and efficiently dispose of them.

LAKOS also offers packaged solutions for cooling tower basin cleaning or side stream filtration for greater efficiencies.



JPX-1160-V/Stainless Steel with AutoPurge