## **Application Selection Guide**



## **INDUSTRIAL FILTRATION SOLUTIONS** Recommended Filtration Problem Benefits LAKOS Solution Problem Flow Range Source Open Impeller damage and wear Self-Cleaning Reliable self cleaning 50-2,400 U.S. Self Cleaning Pump Intake internal backwash Pump Intake Source apm Lost suction Water Screen system, keeps water Screen (11.3-545 m3/hr) Messy and time consuming intake area free of debris Model: ISF maintenance Improved pump Blocked water flow performance Energy savings Source Abrasive wear to pump's Pump protection · Eliminates excessive wear 100-3,180 U.S. **Pump Protection** Water From impellers and bearings separator installed to pump's impellers and Sand Separator gpm Well on suction of bearings for large Expensive repairs and (23-722 m3/hr) submersible and submersible pump replacements • Helps maintain pump's turbine pumps efficiency and saves High energy usage Model: PPS money by reducing Sand in source water energy costs • Extends pump life by 5 times or more **Process Water** Plugged or worn spray Centrifugal sand Centrifugally removes 55-1,030 U.S. **High Efficiency Liquid-Solid** separator sand and other sediment Separators nozzles qpm up to 98% of 325 mesh Uneven water distribution (12.5-233 m<sup>3</sup>/hr) Models: • eJPX and Bi-Sep/Tri-Sep No moving parts to wear Excessive pumping out; no screens or filter **Configurations** (high flow in Costly premature elements to clean or carbon and stainless steel) replacement costs replace High energy/operating costs Reduced operating costs Unscheduled shutdowns for Increased productivity maintenance Includes SmartPurge Solids causing process waste Connection **Process Water** Centrifugal sand 4-12,750 U.S. Plugged or worn spray Centrifugally removes High Performance Liquid Solids nozzles separator sand and other sediment **Separation Systems** apm up to 98% of 200 mesh Uneven water distribution (1-2,895 m<sup>3</sup>/hr) Models: • JPX, JPL and Bi-Sep/Tri-Sep No moving parts to wear Excessive pumping out: no screens or filter Configurations (high flow in Costly premature elements to clean or carbon and stainless steel) replacement costs replace High energy/operating costs Reduced operating costs Unscheduled shutdowns for Increased productivity maintenance Solids causing process waste **Process Water** Same as above but also: Complete Same as above but also: 4-12,750 U.S. Packaged Systems **Filtration Solution** gpm Limited space Convenient total solution Models: in a single system (1-2,895 m<sup>3</sup>/hr) • JCX • Turnkey solution desired JBX • PRX **Process Water** Fine particles **Barrier filtration** • Easy to install Up to 450 U.S. **Cartridge and Bag Filters** Where Fine typically used gpm Filtration Is in tandem with (102 m<sup>3</sup>/hr) Needed LAKOS Separator, which acts as a pre-filter to finer filtration

1365 North Clovis Avenue • Fresno, California 93727 USA Telephone: (559) 255-1601 www.lakos.com • info@lakos.com