## Application Selection Guide

**INDUSTRIAL FILTRATION SOLUTIONS**

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