Residential Filtration
For Residential Domestic Water

Filtration Solutions for Residential Systems

Recommended Solution

“My water was so bad that the toilets and washing machine would plug up and not work. Now I don’t even have to worry about drinking sand in my house.”

Paul Harper
Shepherd, MA

Flow Range: 5-70 U.S. gpm (1.1-15.9 m³/hr)

Maximum Pressure: 100 psi (6.9 bar)

Features and Benefits:

SandMaster Plus
- Centrifugal Separator
- Durable stainless steel outer body construction (Model SMP)
- Limited 5-year warranty
- For more technical information, refer to LAKOS form LS-679

The 3-Minute Settling Test

A simple approach to understanding which types of solids are removed by a LAKOS Centrifugal Separator is to think of them as “settleable solids.” In other words, the solids (sand, dirt, etc.) that are heavy enough to settle in the bottom of a drinking glass in less than 3 minutes. Everything that settles in less than 3 minutes can usually be removed by a single pass through a LAKOS Centrifugal Separator.

3 Minutes Later... How Much Has Settled?
Heavy Duty/Higher Pressure Range

Sand Separators
ILB/ILS

Much like the LAKOS SandMaster products, the ILB/ILS offers the added benefits of greater pressure capabilities, higher flow rates, and much higher temperature resistance. Heavy duty construction typically withstands even the toughest environmental conditions. Available in carbon and stainless steel.

Features and Benefits:
- Centrifugal Separator
- Greater temperature resistance
- Heavy duty construction
- Higher pressure capability than SandMasters
- Available in rugged carbon steel (Model ILB) or stainless steel (Model ILS)
- For flow rates above 290 U.S. gpm (66 m³/hr), refer to the LAKOS IHB Separator
- For more technical information, refer to LAKOS form LS-289

FOR SANDY WELLS

Sand Separators
SUB-K

Extend Life of Submersible Pumps

Reduce sand abrasion and wear to submersible pumps and extend pump life by 5X or more. The SUB-K uses controlled centrifugal action to prevent sand from entering the pump, reducing wear to impellers and other vital components. Easy to install into water wells, the SUB-K attaches to the end of a submersible pump. Pump flow is not affected, but a 2-7 psi pressure loss can be expected.

Features and Benefits:
- Centrifugal Separator
- Protects submersible pumps from sand abrasion wear
- Dramatically extends pump life
- Saves on pump energy costs by maintaining optimum efficiency
- Injection molded composite materials
- For submersible pumps with flows above 99 U.S. gpm (23 m³/hr) and for all turbine pumps, refer to the LAKOS PPS Separator
- For more technical information, refer to LAKOS form LS-304

FOR SANDY WELLS
### Filtration Solutions

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| Sediment (sand, silt, rust and scale) in the water well | • Excessive wear to pump’s impellers and bearings  
• Expensive repairs and replacements  
• Excessive energy usage | 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 | 3-99 U.S. gpm  
0.7-23 m³/hr | Submersible Pump Protection Sand Separator  
Model: • SUB-K |
| Sediment (sand, silt, rust and scale) pumped from water well | • Clogged faucet aerators and screens  
• Plugged inlet screens to home appliances  
• Malfunctioning or worn sprinkler nozzles  
• Fouled water conditioning equipment  
• Inefficient operating water heaters  
• Worn pumps leading to excessive pumping and high energy costs  
• Unscheduled shutdowns for maintenance | Centrifugal sand separator for residential domestic water installed between the pump and pressure tank | • 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  
• Keeps home appliances and lawn sprinkler systems operating effectively and efficiently | 5-70 U.S. gpm  
1.1-16 m³/hr | Centrifugal SandMaster in either carbon or stainless steel  
Model: • SMP |
| Excessive Sediment (sand, silt, rust, scale) pumped from water well | All the problems listed above, and also:  
• Excessive sediment  
• Corrosive water  
• Higher pressures up to 150 psi (10 bar)  
• Flow rates in excess of 70 gpm. (15.9 m³/hr) | Heavy duty centrifugal sand separator installed between the pump and pressure tank | All the benefits of the LAKOS SandMaster Series (see above), and also:  
• 150psi operating pressure  
• Higher flow rate capability | 3-290 U.S. gpm  
0.5-66 m³/hr | Centrifugal Sand Separator in carbon or stainless steel  
Models: • ILB  
• ILS |