

## Centrifugal-Action Sand Separators for Residential Water Well Systems

# H2O SMP

Stainless Steel Construction

Get the sand out. Protect your system from unwanted sand, grit, silt and scale particles. Whatever settles in 3-4 minutes or less is easily removed with a LAKOS Sand Separator.

- Protects faucet screens, washing machine strainers and ice-makers from clogging
- Extends the operating cycles and life of water softeners, charcoal filters, RO systems and super-fine cartridge filters
- Eliminates troublesome build-up in hot water heaters, toilet tanks & tankless water heaters
- Keeps sprinklers operating at best efficiency without clogging or restricted spray patterns
- Improves shower sprays and sand-free baths

### No screens or filter elements to clean or replace

Centrifugal action removes settleable sand without filter mess or restricted flow.

### No system pressure loss

LAKOS Sand Separator installs between your pump and pressure tank (see illustration on reverse). Will not clog or cause restrictive pump damage.

### Performance tested/proven

Independent testing confirms the 98% removal of 200 mesh (74 micron) and larger particle matter. No match to knock-off brands.

### Which LAKOS SandMaster to choose

LAKOS H2O Separators are only recommended for chemical-free water with a neutral pH (range of 7.0 - 7.5). Sulfides, chlorides or any signs of rust or corrosion requires use of SMP Separator (304L stainless steel). Grounding the separator to an electrical ground or well casing is a recommended best practice, especially if the inlet /outlet piping is plastic (see installation instructions for details).



SMP-05 Sandmaster  
SMP-10 Sandmaster  
SMP-20 Sandmaster  
SMP-30 Sandmaster  
SMP-45 Sandmaster

H2O-05 Sandmaster  
H2O-10 Sandmaster  
H2O-20 Sandmaster  
H2O-30 Sandmaster  
H2O-45 Sandmaster

"Certified <0.25 weighted average percent lead" and  
"Complies with California Health and Safety Code  
Section 116875 (commonly known as AB19530)."



Flow Range: 5-70 US gpm  
(70-265 liters/min.)

Maximum Pressure: 100 psi (6.9 bar)  
Maximum Temperature: 120°F (49°C)

Models also available for protecting submersible pumps from sand wear. Ask LAKOS about SUB-K Series.

## ACCESSORIES



AutoPurge with motorized ball valve

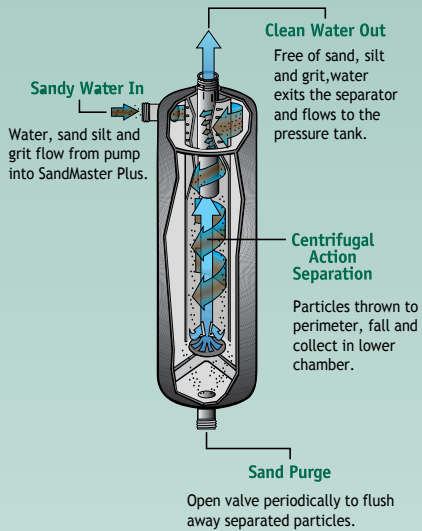


Manual & Visual Purge Options



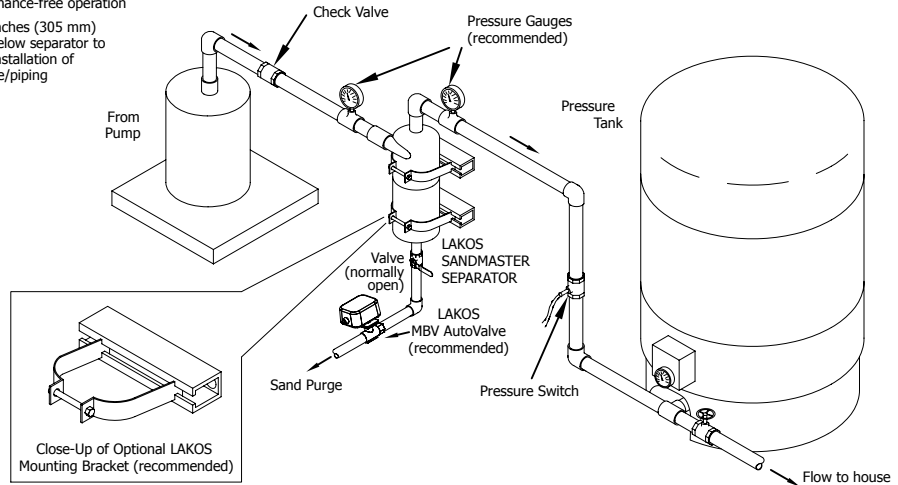
Mounting Brackets for easy, professional installation

## How It Works



LAKOS AutoPurge Valve for maintenance-free operation

Allow 12-inches (305 mm) of space below separator to allow for installation of purge valve/piping



IMPORTANT: Install SandMaster between the check valve and pressure tank.

## How to determine actual flow

Model selection depends on actual flow rate of the pump. **DO NOT USE PIPE SIZE FOR MODEL SELECTION.** To determine your flow rate:

1. Drain water from your system until pump starts. With no other water in use, wait for pump to completely re-fill the system and shut-off.
2. Open a valve downstream of the pressure tank and use a 5-gallon bucket to measure the volume of water drained until pump turns on again.
3. Count the time it takes for pump to again completely re-fill the system.
4. Divide your actual gallons of water by the time it takes to re-fill the system:  $\text{gpm} = \text{gallons per minute}$ .
5. Example: 13 gallons drained from system; takes 1-3/4 minutes to re-fill system:  $14 \div 1.75 = 8 \text{ gpm}$

Lakos Separators are manufactured and sold under one or more of the following U.S. Patents:  
5,320,747; 5,338,341; 5,368,735; 5,425,876;  
5,571,416; 5,578,203; 5,622,545; 5,653,874;  
5,894,995; 6,090,276; 6,143,175; 6,167,960;  
6,202,543; 7,000,782; 7,032,760 and corresponding foreign patents, other U.S. and foreign patents pending.

## Specifications

Model	Flow Range		Inlet/Outlet Size* Male, N.P.T.	Dry Weight		Weight With Water	
	U.S. gpm	liters/min		lbs.	kg	lbs.	kg
H20-05	5-10	19-38	1/2"	7	4.0	16	7.3
H20-10	10-20	38-76	3/4"	8	4.0	16	7.3
H20-20	20-32	76-120	1"	13	6.0	33	15.0
H20-30	30-48	114-182	1-1/4"	13	6.0	33	15.0
H20-45	45-70	170-265	1-1/2"	13	6.0	33	15.0

\*Caution: Do not size unit by pipe size.

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Material Spec: H20 Series - Carbon steel outer body, plastic internal parts  
SMP Series - 304L stainless steel outer body, plastic internal parts