

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
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"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

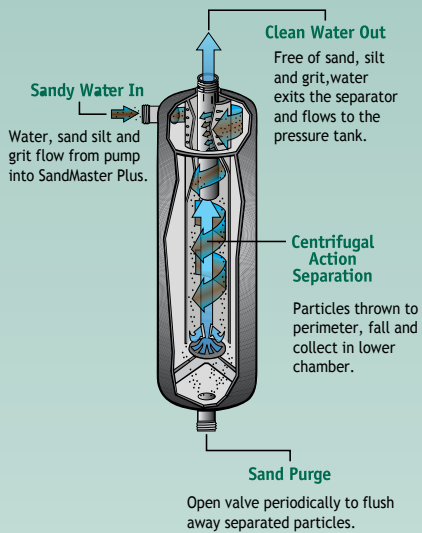


Manual & Visual
Purge Options



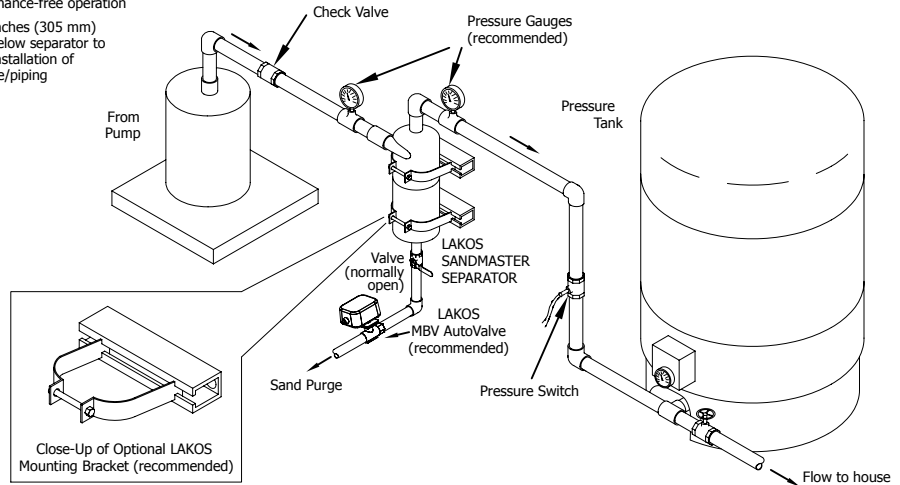
Mounting Brackets
for easy, professional
installation

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: $\text{gpm} = \frac{\text{gallons}}{\text{minutes}}$
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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Note: Purge pipe size for all models is 3/4".

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