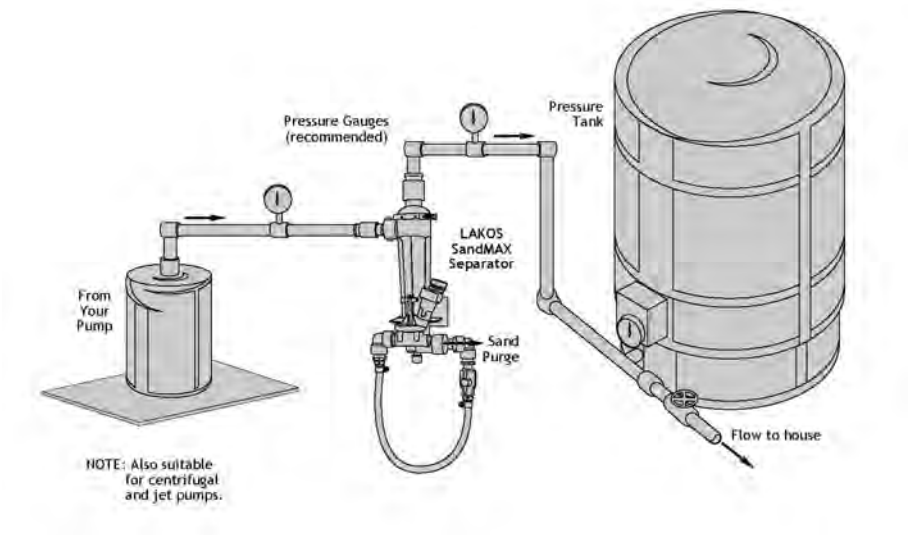
SandMAX SERIES

Installation and Operating Instructions



LAKOS SandMAX Separators are designed for residential water well/fresh water systems only. For continuous-duty applications and/or commercial/industrial applications, consult LAKOS for the proper separator products. Note the proper flow range for your model:

Model MAX-05:	05 – 10	US gpm
Model MAX-10:	10 – 20	US gpm

For flow rates outside this range, please contact LAKOS for proper separator selection.

PREPARATION & INSTALLATION

LAKOS SandMax Separators are shipped in a protection-packed carton. The inlet fitting, outlet fitting and purge hose connections must be attached prior to installation.

1. Apply Teflon tape to the threads of the separator body's inlet and outlet.
2. Attach the appropriate fittings to these connections.
3. The purge hose is connected using hose clamps (provided). Press the hose onto the barbed connections and tighten the clamps. The hose should form a U-shape directly below the separator body (refer to the illustration).
4. Ring clamp on separator body should only be tightened in the case of leakage. Pump is to be turned off during tightening of the clamp. **CAUTION: Clamp should be tightened in one turn increments. Over tightening can damage unit.**

The LAKOS SandMAX Separator should be installed between the pump and pressure tank of a residential water well system. The pump's flow and pressure dictate the performance of the separator. Note that the inlet is the side connection and the outlet is at the top (see illustration). Determine where you want the separated and purged sand to be discharged from the separator's purge outlet. Add appropriate piping as needed. It is not recommended to purge a long distance within hosing or piping. If you must do so, increase the duration of the purge cycle to be sure that all separated sand is flushed from the line during each purge cycle.

Take normal precautions to protect the SandMAX Separator from vibration and/or water hammer.

Use the integral mounting tabs to secure the SandMAX to a surface able to handle the weight of the product with water (9.8 lbs. or 4.4 kg). Do NOT rely only on inlet/outlet piping to support the separator.

(see reverse for additional instructions)

SET THE AUTOMATIC PURGE TIMER

The LAKOS SandMAX Separator includes an automatic purge valve that must be programmed for proper operation. Refer to the specific timer instructions enclosed with the product and consider the following:

Extreme Sand Content: *Purge twice a day for 2 minutes each*

The second purge will occur 4 hours after first purge cycle (this is a fixed, unchangeable factory setting). Set programming dial to “RESET PGM” – wait 10 seconds. Turn the programming dial to “+0” – wait 10 seconds. Position the “Cycle Indicator” (square viewfinder) to “2x” in the 24h range and turn the programming dial to that same “2x” setting – wait 10 seconds. Turn the programming dial to a purge time of “2 minutes” (in the green scale) and leave it there. Valve will begin its purge cycle approximately 10 seconds after last setting and repeat as programmed at the same time of day going forward.

Average Sand Content: *Purge once every other day for 2 minutes*

Set programming dial to “RESET PGM” – wait 10 seconds. Turn the programming dial to “+0” – wait 10 seconds. Position the “Cycle Indicator” (square viewfinder) to 1x in the 48h range and turn the programming dial to that same “1x” setting – wait 10 seconds. Turn the programming dial to a purge time of “2 minutes” (in the green scale) and leave it there. Valve will begin its purge cycle approximately 10 seconds after last setting and repeat as programmed at the same time of day going forward.

Light Sand Content: *Purge once every three days for 2 minutes*

Set programming dial to “RESET PGM” – wait 10 seconds. Turn the programming dial to “+0” – wait 10 seconds. Position the “Cycle Indicator” (square viewfinder) to “1x” in the 72h range and turn the programming dial to that same “1x” setting – wait 10 seconds. Turn the programming dial to a purge time of “2 minutes” (in the green scale) and leave it there. Valve will begin its purge cycle approximately 10 seconds after last setting and repeat as programmed at the same time of day going forward.

The minimum purge duration is two minutes, allowing ample water to flush the separated dirt through the valve to minimize clogging or malfunction. Longer purge duration is unnecessary, unless purge piping longer than 10 feet (3 meters) is installed. It is also very important to install the valve as shown in the program.

There are several other purge timing options available. Please see additional instructions enclosed with the valve or consult factory if you wish to consider other options. Battery must be installed prior to setting timer.

If your valve does not respond to the above settings, remove the battery and place a screwdriver across the terminals on the battery clip for 5 seconds. Replace the battery and repeat the programming procedures above.

OPERATION CHECKS

Observe a purge cycle and witness the sand flushing from the hose, through the automatic valve and to discharge. Be sure that all sand is flushed from the lower section of the hose during each cycle.

Check the hose periodically to be sure that sand has not clogged the hose. If clogging occurs, remove the hose and clear the sand. Re-attach the hose with the clamps.

If excessive sand build-up is occurring in the hose, increase the frequency and/or duration of purging. See automatic timer options above and the additional instructions included with the system.

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