

an answer
to today's
**water
problems
as nature
intends**

Maintenance Report

PURSAN  VA

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Pursanova Maintenance Report

August 19th, 2006

It's been 10 years since installing the water treatment device. Because we ran water through from the well before inserting a sediment filter the ceramic beads were dirty. This is most likely a problem with the water source and not the treatment device. As long as long as cleaner water is used it should be fine. We recommend maintenance every 5 years.

This time around we washed the beads with vinegar, and it successfully cleaned off the debris from the beads. There were no issues with damage and they were good to use again.

Maintenance Procedures

- **Removing the ceramics**



Before washing



- **Washing the ceramic balls (with vinegar)**



Because the device is heavy we had 4 people help with the maintenance.

After washing



- **After washing the case, the ceramic balls are reinserted and the device is reinstalled.**



The water flow was becoming weak before the maintenance but is restored after maintenance.

Pursanova Maintenance Report

January 10th, 2002

1 year and 3 months after installation, the ceramic balls have begun to get dirty, with iron and manganese particles sticking to them. We believe there might be a small issue with the water treatment device. We suggest analyzing the water to fine tune the device. We have also found cleaning to be ineffective with a spot cleaner. As a way to tune the treatment device, there needs to be a way to eliminate the need for a spot cleaner after installation. Because if the ceramic balls are dirty and coated their efficacy decreases, please clean them from time to time. Although normally maintenance only need be done once every 2 or 3 years, this device went around twice a year.

Maintenance Procedures

① Removing ceramics



Washing with ascorbic acid



After wash

Before wash

② Beads are reinserted after the case is washed



Affixing the case



Because the device is heavy 5 people helped out with the maintenance.

Pursanova Device Maintenance

3 years after installing
March 15, 2007



After wash

Before wash



Washing with ascorbic acid



Inside the case before washing
You can see a yellow sludge film on
around the case

Maintenance Report

ST-200L X 1

3 years since installation

- A yellowish sludge formed on the ceramic balls
- After the wash, they were no different than new ceramic.
- We recommend conducting maintenance every 3 to 5 years.

Pursanova Maintenance Report

March 15th, 2007

7 years have passed since installing the treatment device, a lot of sludge can be seen on the surface of the ceramic balls. Because the treatment is not perfect, debris collects on the surface and reduces the efficacy of the ceramic balls. Another inspection may be necessary. As far as iron particles collecting on the surface of the balls after 3 to 6 months should be monitored and therefore, maintenance should be conducted at least every 6 months for this specific project.

For this site we used ascorbic acid to clean the ceramic balls. No problems with damage to the ceramics were found and they were ready for further use.

Maintenance Procedures

Taking apart the device (intake)



Removal and cleaning of ceramic balls



Washing ceramics with ascorbic acid



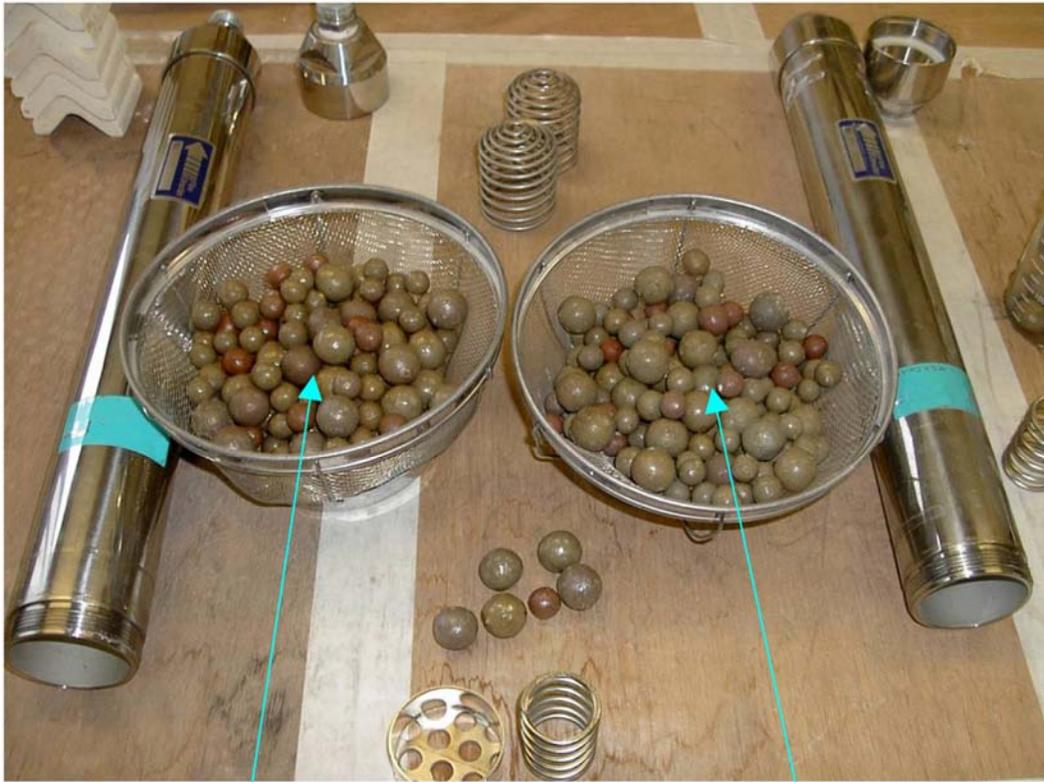
After washing



Because the device is heavy, 4 people helped with the maintenance.

Pursanova Ltd., Inc. - 5 Years after Installation

Before Wash



Hot Water

Regular Water

After Wash

