

Moleaer's Clean-In-Place Procedures

Parts Required

CIP Syringe Kit: P/N 99K0-031



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Contact Moleaer at (424) 558-3587 for information in how to get the syringe kit.

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Syringe Kit Assembly

P/N: 99K0-031

Parts



50 ml/cc or 1.5 oz Syringe



Coupling, Air Fitting and Tube

Assembly Instructions

1.



Hand Screw the Plastic Coupling into the Air Fitting. Make Sure it Gets Hand Tight.

2.



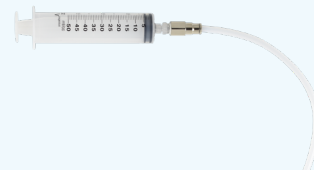
Insert the Tube into the Air Fitting.

3.



Insert the coupling into the syringe and press firmly.

4.



Final assembly.

Contact Moleaer at (424) 558-3587 for information in how to get the syringe kit.

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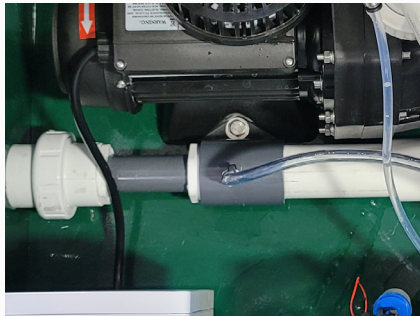


Kingfisher & Lotus Nanobubble Generator Cleaning Procedure

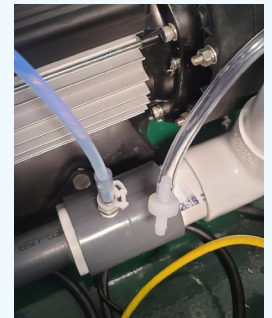
Step by step summary



1. Turn off the pump and drain any water in the system. Isolate the unit from the tank.
2. Open the lid from unit.
3. Locate the nanobubble generator.



4. Release clamp, below check valve. Disassemble tube and check valve. Put CIP tube into tube from nanobubble generator.



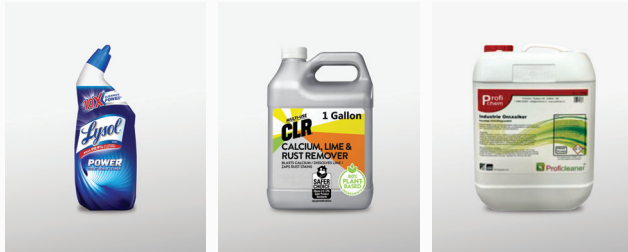
5. Select the cleaning solution.

US Market:

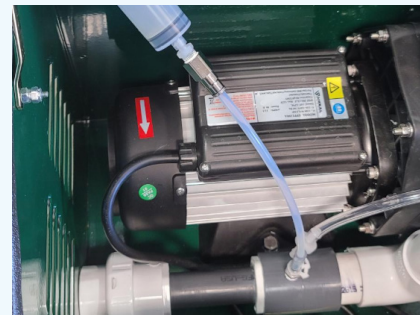
Multi-Use CLR or Lysol (Power Toilet Bowl).

EU Market:

Descaler PH = 0.5



7. Slowly inject about 25 ml of cleaning solution into the nanobubble generator.



6. Prepare the syringe with cleaning solution.



8. Keep the solution in the nanobubble generator for 15 minutes.
9. Using the same syringe, inject clean water into the nanobubble generator to flush the CIP solution out. Repeat 3 times. Generally, after 3 flushes, the remainder of the solution is very small and can be left inside the system.

10. Reconnect all the tubes and pipes.

11. Turn system on. Follow start up process.

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Horizontal Alignment Nanobubble Generator Cleaning Procedure

Step by step summary



1. Isolate the unit system and turn the power off.
2. Remove the lid from unit.
3. Locate the nanobubble generator.



4. Remove the air fitting tubes from air fittings.



5. Select the cleaning solution.

US Market:
Lysol (Power Toilet Bowl) or
Multi-Use CLR.

EU Market:
Descaler PH = 0.5



6. Prepare the syringe with cleaning solution.



7. Inject about 25 ml of cleaning solution into the nanobubble generator as shown in the picture. Keep injecting the solution until it comes out from the other end. Clean the extra solution with a piece of cloth.



8. Keep the solution in the nanobubble generator for 30 minutes.

9. Using the same syringe, inject clean water into the nanobubble generator to flush the CIP solution out. Repeat 3 times. Generally, after 3 flushes, the remainder of the solution is very small and can be left inside the system.

10. Reconnect the air fitting tube to the air fittings of the nanobubble generator.

11. Turn system on.

12. Run the system for 10 minutes. Gas pressure should decrease, and gas flow should improve.

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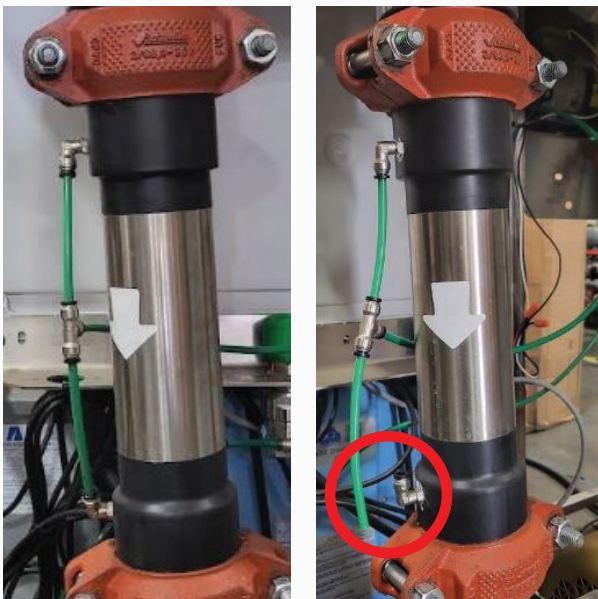
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Vertical Alignment Nanobubble Generator Cleaning Procedure

Step by step summary



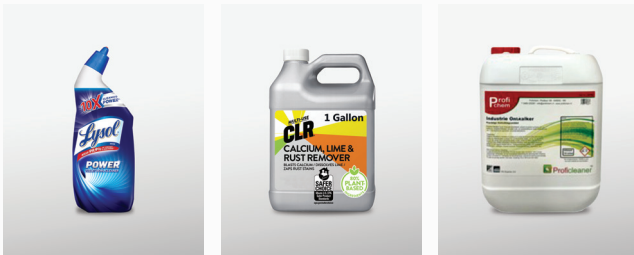
1. Isolate the unit system and turn the power off.
2. Locate the nanobubble generator and remove the bottom air fitting tube only.



3. Select the cleaning solution.

US Market:
Lysol (Power Toilet Bowl) or
Multi-Use CLR.

EU Market:
Descaler PH = 0.5



4. Prepare the syringe with cleaning solution.



5. Inject about 25 ml of cleaning solution into the nanobubble generator as shown in the picture. Keep injecting the solution until it comes out from the other end. Clean the extra solution with a piece of cloth.
6. Keep the solution in the nanobubble generator for 15 minutes with the syringe tube still attached.



7. Using the same syringe, inject clean water into the nanobubble generator to flush the CIP solution out. Repeat 3 times. Generally, after 3 flushes, the remainder of the solution is very small and can be left inside the system.
8. Reconnect the air fitting tube to the air fittings of the nanobubble generator.
9. Turn system on.
10. Run the system for 10 minutes. Gas pressure should decrease, and gas flow should improve.

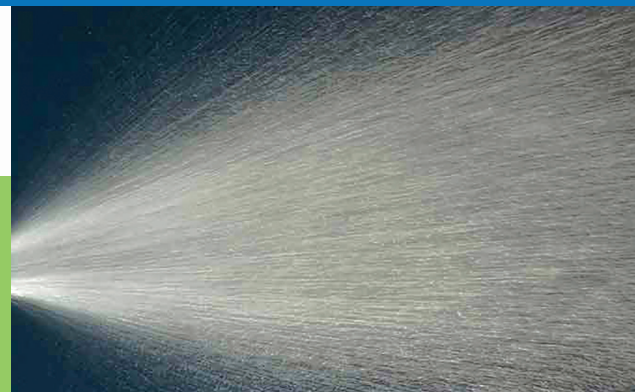
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Block Cleaning Procedure

Step by step summary



1. Isolate the unit system and turn the power off.
2. Remove the lid from unit.
3. Locate the block.



4. Disconnect the fitting tubes from air fittings.



5. Select the cleaning solution.

US Market:
Lysol (Power Toilet Bowl) or
Multi-Use CLR.

EU Market:
Descaler PH = 0.5



6. Prepare the syringe with cleaning solution.



7. Inject cleaning fluid about 25 ml into the tubing fitting until it comes out of the other end of the block.



8. Reinstall the air fitting and keep the solution in the block for 10 minutes.



9. Remove air fitting once again and use fresh water or air to blow most of the cleaning fluid out of the block.

10. Reconnect air fittings and air fitting tubes back to the block.

11. Turn system on.

12. Run the system for 10 minutes. Gas pressure should decrease, and gas flow should improve.

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