

Installation LIME-FREE addition set

Jar with lime-free* water for (re-) installation in the side of the water tank

* Lime-free water can be demineralized, distilled, osmosis or descaled water.

Maintenance is only possible through the large manhole!

Package contents:

Part A: 1 pc. PVC lid duct 3/8 thread

Part G: 1 pc. Connection cable with round plug to electrolysis unit (black/white is + (pos) / black is- (min)

- Part B: 2 pcs. John Guest coupling piece 12 mm 3/8 thread Part H: 4 pcs. EPDM flat sealing ring Ø 12 mm
 - Part I : 2 pcs. Green connection plugs
- with 2 or 3 pcs. hose 33 cm + coupling pieces. Part D: 1 pc. Flow controller LxWxH: 90x36x33 mm
- Part E : 1 pc. Electrolysis unit complete with cell core

Part C: 1 pc. Hose, 33 cm long, Ø 12 mm. To order

- Part F: 1 pc. Connection cable with fuse (1 Amp) to
- 12V or 24V point (black/white is + (pos) / black is - (min)
- Part J: 7 cm Self-adhesive Velcro tape for placement of
- flow regulator
- Part K : Small screwdriver
- Part L: Pot Ø 45 mm
- Part M: Nut 24 mm 3/8 thread (only for side installation)

Initial installation of the side-mounted Tank-O3 fresh water system 2.0:

- 1. Drill a 17 mm hole as high as possible in the side wall so that it is easily accessible by hand from the manhole. Measure the distance from the borehole to the deepest point in the tank and write it down or remember it.
- 2. Insert the lid grommet 17 mm (A), with a flat sealing ring (H) in between, from the inside of the tank and fasten the small tank grommet to the outside of the tank with the nut (M).
- 3. Place a flat sealing ring (H) on the inside of the tank around the lid passage (A), and tighten the coupling piece (B) properly.
- 4. Cut the hose (C) to the length as measured in point 1. It is important that the hose (C) with the jar (L) is blocked at the deepest point by an obstacle or by the bottom of the tank. For this purpose, the hose (C) must remain a little too long (you can always shorten it) so that it is slightly under tension. Make sure that the jar (L) is placed in a position as flat as possible. When the jar (L) hangs at an angle, make sure that the small hole is at the highest point in the lid so that the ozone gas escapes there most quickly.

This is easy because the hose connection in the coupling piece (B) can be rotated.

5. First mount the jar (L): Place a flat sealing ring (H) around the electrolysis unit (E) and screw it from below through the hole in the lid of the small jar (L). On the outside of the lid, press the other flat sealing ring (H) onto the electrolysis unit (E) and tighten the electrolysis unit (E) with the coupling piece (B).



Assembly sequence for testing the length of the hose (C): electrolysis unit, ring, cover, ring, coupling piece and insert the hose deeply (+/+ 1.5 cm) into the coupling piece! Mount the jar (L) under the lid.

- 6. Press the hose (C) into the coupling piece (B) and mount the jar (L) under the lid. Now the whole thing is ready so that you can take it in and out through the side cover, the manhole, during maintenance.
- 7. Insert the assembly into the tank and now measure whether the length of the hose (C) from the coupling piece (B) at the top of the tank is suitable for the jar (L) to be "clamp tight" or blocked by an obstacle in the tank and can be mounted slightly under tension (see photo opposite). Shorten the hose (C) to the correct length, think about the 2 x approx. 1.5 cm hose (C) that disappears into the couplings (B).
- 8. Remove the cup (L) and the coupling piece (B) from the hose (C) and now install it definitively. See drawing on the back: *Disconnect hose (C).*
- 9. Now feed the plug cable (G) from the outside, first through the nut (M), then through the small tank passage (A), through the coupling piece (B) and through the hose (C).
- 10. Now, to be on the safe side, install the green connecting plug (I) on the routed connection cable (G), see "Connection of the power wires to the green plug" on page. 3 of the User Manual 2.0.
- 11. Now remount the jar (L) at the bottom of the hose (C): Place a flat sealing ring (H) around the electrolysis unit (E) and screw it from below through the hole in the lid of the small jar (L). and press the other flat sealing ring (H) on the outside of the lid onto the electrolysis unit (E).
- 12. First insert the plug of the connection cable (F) into the electrolysis unit, screw the coupling piece (B) very firmly onto the electrolysis unit (E) so that it is waterproof and press the hose (C) as deep as possible (+/+1.5 cm) in the coupling piece (B).
- 13. Fill the jar (L) with lime-free water almost to the top. Screw the filled jar (L) firmly into the lid from below (hold the lid firmly!) There is a small hole in the lid through which the ozone "escapes" and enters the water.
- 14. Insert everything into the tank, make sure that the jar (L) is slightly under tension and preferably hangs flat! When the jar (L) hangs at an angle, make sure that the small hole is at the highest point so that the ozone gas escapes most quickly there. Because the hose (C) can easily turn into the coupling piece (B), this is easy to control.



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- Part B: 2 pcs. John Guest coupling piece 12 mm 3/8 thread
- Part C: 1 pc. Hose, 33 cm long, Ø 12 mm. To order
- with 2 or 3 pcs. hose 33 cm + coupling pieces. Part D: 1 pc. Flow controller LxWxH: 90x36x33 mm
- Part E : 1 pc. Electrolysis unit complete with cell core
- Part F : 1 pc. Connection cable with fuse (1 Amp) to
 - 12V or 24V point (black/white is + (pos) / black is (min)
- Part G: 1 pc. Connection cable with round plug to electrolysis

unit (black/white is + (pos) / black is- (min) Part H: 4 pcs. EPDM flat sealing ring Ø 12 mm

- Part I : 2 pcs. Green connection plugs
- Part J : 7 cm Self-adhesive Velcro tape for placement of flow regulator
- Part K : Small screwdriver
- Part L : Pot Ø 45 mm
- Part M: Nut 24 mm 3/8 thread (only for side installation)
- 15. Now press the hose (C) firmly (+/+ 1.5 cm) into the coupling piece (B) at the top of the tank (or the tank cap 40 or 60 mm in the case of a previously installed tank passage).
- 16. Now mount the green connecting plug (I) on the connecting cable (F) and mount the fuse on the black/white + (pos) wire close to the continuous power point. Connect the power wire from the 12/24V continuous power point to the Tank-O3 *fresh water system 2.0* flow controller (D). Now the green LED lights up, the system is working! The YELLOW LED may also light up briefly when you first connect, this may take a few minutes. When only the green LED is lit, the Tank-O3 *fresh water system* is fully and correctly functioning. Check this after installation or after refilling the jar (L) by hanging the jar (L) with the electrolysis unit (E) in a glass of water. If you see air bubbles, the system is working.

Adjustment of the Tank-O3 *fresh water system 2.0* in tank with passage 40 mm:

(may also be necessary for 60 mm passage)

Short version: change the installation of the lid passage (A) by installing it not from the outside but from the inside of the cover and secure it by screwing on nut (M). Nut (M) can be ordered on our website via <u>https://www.tank-o3.nl/en/price-list-parts</u>. Below you can read detailed adjustment instructions.

- 1. Unscrew the cover of the additional tank passage 40 or 60 mm and remove the assembly from the tank passage.
- 2. Disconnect the hose (C) with the electrolysis unit (E) and the lower coupling piece (B) from the upper coupling piece (B) at the lid (How? See the drawing opposite, *Disconnect hose (C)*.
- 3. Dismantle the electrolysis unit (E) from the lower coupling piece (B), remove the O-ring and pull the plug cable (G) from the electrolysis unit (E) and from the hose (C).
- 4. Remove the coupling piece (B) from the lid, turn the current lid bushing 17 mm (A) and disconnect the hose (C) from the outside of the lid 40 or 60 mm and insert it again with a flat sealing ring (H) in between from the inside through the lid.
- Now secure the lid grommet (A) properly and firmly on the lid with the nut (M).
- 5. Replace the O-ring between the lid passage (A) and the coupling piece (B) with
- a flat sealing ring (H) and mount the coupling piece (B) firmly on the lid passage (A). 6. Turn the lid on the tank passage 40 or 60 mm. Now continue with **point 4** during initial assembly.

Are the plug cable (G) and the hose (C) still long enough? And do you need a coupling piece to connect hoses? These special and additional parts for side installation can be ordered under <u>https://www.tank-o3.nl/en/price-list-parts</u>.

Maintenance:

Because the water "evaporates", so to speak, check **every week / 2 weeks** and refill the jar (L) with lime-free* water. Choose **a fixed time** for this (Saturday?) so you don't forget!

Maintenance through the manhole, the large side cover, is very simple because you can leave the whole thing together. Loosen the nut (M) on the outside of the tank, remove the assembly, fill the jar (L) and, after refilling with the jar (L), place the assembly back in a tight manner, press in the lid grommet (A) drill hole 17 mm and tighten the nut (M) again. * Lime-free water can be demineralized, distilled, osmosis or descaled water.

In the photo on the previous page you can see the new situation and in the drawing on the right you can see the difference between the previous and the new situation and what it looks like after installation! So easy to apply.

For information and questions: <u>www.tank-o3.nl</u> For parts and accessories see <u>https://www.tank-o3.nl/en/price-list-parts</u> For the latest information see blogs on our website.





Tank-O3 fresh water system 2.0 is part of



