

How to clean and disinfect the rEvo III unit



Important remark:

Always take precautions to avoid water ingress into the gas lines of the unit. This can cause malfunctioning of the gas addition system, solenoid, orifice,...

Always protect electronic components, boards, sensors, temp probes, connectors,... from moisture

Discard used disinfectant according to local regulations

Needed Parts:



5 liter (+/-1.3 gallon) of fresh water

1x sachet 50gr Virkon R218 / 48620218

Sorb filters R203 / 48620203

Moisture absorbent pad R568 / 48600430

Steps:

1: dissolve the content of 1 sachet (50gr) of Virkon into 5l of fresh water

2: Put the unit horizontal on a stable work surface with the breathing loop (DSV closed) and tanks installed



3: Remove the sensor tray from the bottom scrubber housing, if you disconnect by the wet connectors, make sure to use blanking plugs to protect the wet connectors (R563 A / B) . This ensures that the oxygen sensor tray (sensors and connectors) stay clear of the disinfectant solution.

4: Remove the solenoid grid from the top scrubber housing, this ensures that the solenoid / orifice and electronic board, connectors stay clear of the disinfectant solution.



5: Open both tanks valves, a pressurized gas system is a good way to prevent water ingress in the gas supply system

6: Poor the Virkon solution into the inhale scrubber compartment (bottom). Leave it for 10 minutes



7: after the 10 minutes, move the closed DSV / BOV sideways so it acts as a pump to move the solution to the exhale scrubber compartment. Leave it another 10 minutes



8: after 10 minutes in the top compartment, drain the unit using the DSV/BOV and by unscrewing the exhale breathing hose connector (housing side). Keep the Virkon solution for canister disinfecting



9: when drained, give the unit 3 rinsing cycles with fresh water until all traces of the cleaning solutions have disappeared (foam, pink color). Remove the breathing hose, rinse with fresh water, and remove water from the hose by pressing the hose together in a vertical position

10: remove the sorb filters from both canisters. Submerge the scrubber mesh, spider, spring and scrubber retaining screw into the Virkon solution. Leave it for 10 minutes.

DO NOT SUBMERGE THE GRAY CANNISTER WITH TEMP PROBE IN THE DESINFECTANT SOLUTION!

Wipe the canisters with a moisture pad rinsed in Virkon. When the canisters are dry install new filters (part of kit R203 / 48620203)

As a reminder, store empty rMS canisters with the scrubber spring loose inside the canister, this avoids mechanical damage on the temperature sensing fingers



For further information or if you need extra help, please contact your local instructor or service-center.

Remark:

Virkon is listed on the USA EPA's List N of approved products that inactivate the COVID-19 virus

https://www.epa.gov/pesticide-registration/list-n-disinfectants-use-against-sars-cov-2#filter_col1