

Product Sheet

Electro-Aeration Reactor



The Nano-Bubble maker is composed of 2 housing filters. The Grey one-or-first filter housing is for [Citric acid powder](#) or [descaling powder](#). It's typically set at 0 as we do not need it until there's a problem with the blue reactor plates. Scaling plates depends on the hardness of the water. Thus, using the descaler could be needed once a month or once a week. Water softeners ahead of our technology do help.

There is no need for Reverse Osmosis ahead of our technology. A simple activated carbon filter is all that is required. CAG filtration at 10-20 GPM is usually residential size.

We use pool supply housing and filters to keep down costs. Soon we'll have our own made including electronic injection and automation, (but that does raise costs). In the meantime, they work great!

In the case of Hypochlorite/Chlorine production: the grey unit is filled with table salt, and the knob turned to 1. This will produce chlorinated water.

One measures the effectiveness of the nano-bubble production with an ORP meter.

- When fully operational the ORP reading is negative, if it's positive the unit needs descaling with a descaler agent or citric acid.
- The negative ORP rule does not apply to chlorine production. in this case the ORP should be higher than 400 to be considered effective. If it slips to 200Mv or so, then switch the salt to acid. Recommended that you clear out as much of the salt as possible.



The first housing filter (grey) is an injector. It has a knob, and that knob should be at 0 for the most part unless acid or salt injection, in which case the minimum setting is all that is needed.

For more information on this grey housing: [Automatic Chemical Feeders Chlorinators and Brominators \(hayward.com\)](http://hayward.com)

The Blue filter housing contains the set of plates:



The rods and plates are titanium. Contacting water with these electrified plates generates the nano-bubbles. A lot of it! there is no need for pH adjustment such as KOH.

City or well Plain water *not* RO water is preferred. The Power supply is 110 Volt in the US and adaptable to 220V for overseas.

The roller mounted unit measures roughly 24 inches long by 12" wide. (The roller is subject to availability and color will change) The housing is a filter housing 23" high and 9" wide.

The inflow and outflow fittings are standard garden hose $\frac{3}{4}$ ". They can be modified to any fitting size.

The product ships with some assembly on the rollers

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