

HydraPLUS⁺ Professional

AIO Filters Iron, Manganese, & Hydrogen Sulfide Removal

Quite simply the best chemical-free iron, manganese and hydrogen sulfide filters available today - featuring proprietary slow air release and air blocker technology!

HydraPlus™ Air Injection Oxidation (AIO) Filters combine a truly professional grade control valve, a quality North American made media tank, and a specialized catalyst media to create a highly effective, chemical-free solution for the removal of iron, manganese, and the rotten egg odour caused by hydrogen sulfide.

During regeneration, the control valve captures a small pocket of air in the top of the treatment tank. As the contaminated water enters the treatment tank, it is infused with lots of dissolved oxygen which starts to oxidize the contaminants. When the water contacts the catalyst media, the oxidation accelerates. The dissolved iron, manganese and hydrogen sulfide are converted into small oxidized particles that are mechanically filtered out of the water as the water passes through the media bed. The trapped contaminants are harmlessly flushed down the drain in an automatic backwash process, usually every few days.

- ◆ Smart valve technology, metered regeneration, and water consumption data logging
- ◆ Simple, automated backwash and regeneration with slow air release technology
- ◆ Air blocker technology to prevent contaminant build-up inside the control valve - reduced maintenance!
- ◆ Four media options to suit any treatment task and budget
- ◆ Simple operation with no day-to-day maintenance



HydraPlus™ stands out from other AIO filters with a proprietary slow air release cycle, premium back-lit display, service reminders (with dealer name and phone number display), advanced diagnostics, battery back-up, air blocker technology to reduce valve maintenance, and more. The HydraPlus™ also features 2 relays to connect to accessory devices. Behind the innovative HydraPlus™ controller is the renowned Clack® WS series valve body known for its reliability, ease of service, and extensive accessory options. Quality you can count on, and backed by an industry leading 5 year warranty!

HydraPlus™ AIO Filters are offered with 4 media options to suit all water conditions and budgets.

HydraPlus™ AIO filters can also be used to remove sediment and turbidity. Under certain conditions, they may also be used to remove arsenic. Discuss with your dealer if this is an intended application.



Popular Add-Ons and Accessories



Enpress Vortech® Tank Upgrade

Looking to reduce water consumption and waste? With an upgrade to a Vortech® media tank, you can reduce your backwash and rinse water volume by 30 to 40%! A Vortech® tank upgrade is a great option for homes with low-yield wells or in areas prone to drought and water restrictions where water conservation is important.



Ozone Generator

Turbocharge your HydraPlus™ AIO System! Install an ozone upgrade kit to improve treatment of extreme iron, manganese, and hydrogen sulfide problems and to prevent bio-fouling from nuisance bacteria including iron and sulfur-related bacteria (IRB/SRB). The ozone generator enhances media performance, helps keep the media bed clean for longer media life, and enhances oxidation of contaminants by replacing the air pocket with a low-dose of ozone. Not for use with BIRM media systems.



No Raw Water Bypass Valve

During regeneration, HydraPlus™ systems will continue to supply service water, however, it will be untreated. If it is essential to prevent untreated water from reaching the building during regeneration, a No Raw Water Bypass Valve can be added to the system.



Bypass and Fittings

All HydraPlus™ systems come standard with a bypass assembly included as well as 1 inch NPT elbow (Clack® V3007) connection fittings. A wide range of alternative connection fittings can be ordered separately in 3/4 and 1 inch sizes, including NPT thread, Shark Bite®, John Guest®, and sweat/solder options.

The benefits of HydraPlus™ AIO Filter Systems



**Economical and
low maintenance...**



No more dirty water!



Protection you can rely on...

- ◆ No filter cartridges to replace
- ◆ Long-life media
- ◆ Fully automated periodic backwash

- ◆ Removes dissolved iron up to 10 ppm!
- ◆ Removes up to 3 ppm manganese, and rotten egg odour
- ◆ Improves clarity and prevents staining

- ◆ Prevent damage to your plumbing fixtures, water heater, and appliances
- ◆ No more discolored laundry

4 Media Options to Best Suit your Specific Application and Budget!

1 AIO-F-HP Series

Filox®

Filox® is both our most popular and our most powerful media option. It is capable of removing high levels of iron, manganese, and hydrogen sulfide (rotten egg odour). It is extremely long-lasting since it is a solid media (not coated). It can last almost indefinitely if backwashed properly. Since it is such a powerful catalyst, smaller systems can generally be used to achieve the same treatment goals, and it performs better than other media in the removal of stubborn manganese. Filox® is very resistant to oxidizers.

AIO-F-HP Series	8-44	9-48	10-54	12-52	13-54	14-65
Media	Filox®					
Max Iron:	10 mg/l (ppm)					
Max. Manganese:	3 mg/l (ppm)					
Max Hydrogen Sulfide:	3 mg/l (ppm)					
Media Volume (Cubic Feet):	0.5	0.75	1	1.5	2	2.5
Optimal Service Flow Rate (GPM)	4	6	8	12	16	20
Maximum Service Flow Rate (GPM)	5	7.5	10	15	20	25
Backwash Flow Rate at 40F / 70F Water Temp (GPM)	4.2 / 5.3	5.3 / 7.5	7.5 / 9	10 / 13	13 / 15	15 / 17

2 AIO-KL-HP Series

Katalox-Light®

Katalox-Light® media is a powerful, yet affordable option for the removal of moderate to high levels of iron as well as hydrogen sulfide (H₂S) which causes a distinct rotten egg odour. Katalox-Light® will also remove moderate levels of manganese under the right operating conditions. Due to its light weight which allows for lower backwash flow rates, this media option is well suited to low yield wells or other applications where water conservation is desired.

AIO-KL-HP Series	8-44	9-48	10-54	12-52	13-54	14-65
Media	Katalox-Light®					
Max Iron:	5 mg/l (ppm)					
Max. Manganese:	1 mg/l (ppm)*					
Max Hydrogen Sulfide:	2 mg/l (ppm)					
Media Volume (Cubic Feet):	0.5	0.75	1	1.5	2	2.5
Optimal Service Flow Rate (GPM)	2.8	3.5	4.4	6.3	7.4	8.6
Maximum Service Flow Rate (GPM)	4.2	5.3	6.5	9.4	11.1	12.8
Backwash Flow Rate at 40F / 70F Water Temp (GPM)	2.7 / 3.2	4.2 / 4.2	4.2 / 5.3	6.5 / 7.5	7.5 / 9	9 / 10

3 AIO-B-HP Series

BIRM®

BIRM® is a very affordable and light weight media used primarily for the removal of low to moderate levels of iron particularly when manganese and hydrogen sulfide are NOT present.

AIO-B-HP Series	8-44	9-48	10-54	12-52	13-54	14-65
Media	Clack BIRM					
Max Iron:	2 mg/l (ppm)					
Max. Manganese:	1 mg/l (ppm)*					
Max Hydrogen Sulfide:	See below **					
Media Volume (Cubic Feet):	0.5	0.75	1	1.5	2	2.5
Optimal Service Flow Rate (GPM)	2.4	3.1	3.8	5.5	6.5	7.5
Maximum Service Flow Rate (GPM)	3.5	4.4	5.5	7.9	9.2	10.0
Backwash Flow Rate at 40F / 70F Water Temp (GPM)	3.2 / 4.2	4.2 / 5.3	5.3 / 6.5	7.5 / 9	9 / 11	11 / 13

CENTAUR® Catalytic carbon media is a very affordable media used primarily for the removal of low to moderate levels of hydrogen sulfide which causes a characteristic rotten egg or sulfur smell. It is also capable of the concurrent removal of low levels of iron, and is particularly effective at also removing trace levels of organics that can cause bad tastes and odours.

AIO-C-HP Series	8-44	9-48	10-54	12-52	13-54	14-65
Media	Calgon CENTAUR Catalytic Carbon					
Max Iron:	2 mg/l (ppm)					
Max. Manganese:	See below ***					
Max Hydrogen Sulfide:	3 mg/l (ppm)					
Media Volume (Cubic Feet):	0.5	0.75	1	1.5	2	2.5
Optimal Service Flow Rate (GPM)	2.5	3	4	5.5	6.5	7.5
Maximum Service Flow Rate (GPM)	3.5	4.5	5.5	8	9	10
Backwash Flow Rate at 40F / 70F Water Temp (GPM)	3.2 / 4.2	4.2 / 5.3	5.3 / 6.5	7.5 / 9	9 / 11	11 / 13

* Generally, the AIO-F-HP Series is preferred for all applications desiring manganese removal. Where the AIO-B-HP Series is used for manganese reduction, pH must be between 8.0 and 8.5.

** Hydrogen sulfide will damage the media in AIO-B-HP Series models. Do not use these models if hydrogen sulfide is present.

*** AIO-C-HP models are not recommended for manganese removal.

Operating Conditions

Minimum Water Pressure	20 PSI
Maximum Water Pressure	90 PSI*
Recommended Water Pressure	40 to 70 PSI*
Water Temperature	40°F to 100°F (4°C to 38°C)**
Minimum Air Temperature	38°F (4°C)**
pH Range	7.0 to 8.5 ***

* While the filter system is designed to withstand pressures exceeding 90 PSI, if your water pressure is greater than 70 PSI, we strongly recommend that a pressure reducing valve be installed ahead of the HydraPlus™ system.

** The system cannot be exposed to freezing conditions or severe damage to the system and your property could occur.

*** pH correction is strongly recommended where the pH level is less than 7.0 to prevent long-term corrosion damage to your plumbing system, to prevent leaching of metals from copper and brass plumbing components and solder in your home, and to enhance the performance of your HydraPlus™ system. Satisfactory treatment with certain models is often possible where pH is less than 7 or higher than 8.5. Where pH is greater than 8.5, there is a significant risk that colloidal iron will form during the treatment process. Colloidal iron is too small for the system to properly filter out of the water. This will result in poor performance. Contact your dealer for recommendations if your pH is not in the specified range.

For best contaminant removal, the optimal service flow rate specified for your model should not be exceeded. Satisfactory to good filtration can generally be achieved up to the recommended maximum service flow rate as long as this level of flow rate is not sustained continuously.

For all models, we recommend that Total Organic Carbon (TOC) not exceed 5 ppm (mg/l). If your TOC level is higher than this, consult with your dealer as organics can interfere with treatment.

If your contaminant levels exceed the recommendations in the chart above, discuss your application with your dealer. In cases where other conditions are optimal, it may be possible to treat more severe cases successfully, but this should only be attempted upon the recommendation of a professional.

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