

Economical whole house fluoride removal

The maximum acceptable level for fluoride in Canadian drinking water is 1.5 mg/L (ppm). Elevated levels of fluoride can cause cosmetic and structural damage to teeth and make bones fragile and prone to fracture, especially in children. Some research has suggested that very high fluoride exposure may also affect brain development in children, however, health agencies continue to evaluate the evidence. Nevertheless, concerns over fluoride in drinking water prompt many consumers to seek effective removal options.

HydraPlus™ Fluoride Reduction Filters combine the industry's most advanced control valve and specialized water filter media called bone char to reduce fluoride and other contaminants to acceptable levels. The filter's control valve features metered backwash, 6-cycle programming, color-coded back-lit display, programmable service reminders (with dealer name and phone number display), advanced diagnostics, battery back-up, two relays to connect to accessory devices, and more.

The active ingredient in bone char is hydroxyapatite, a naturally occurring form of calcium phosphate that removes fluoride and other contaminants primarily through adsorption. As water flows through the filter, fluoride attaches to the hydroxyapatite, thereby removing the fluoride from the water. Once all active media has been exhausted, generally after several years of use in a typical residential application, the media is simply replaced. The exact life of the media will depend on your fluoride level, pH, and other water chemistry parameters. Only NSF/ANSI Standard 61 Validated bone char from Brimac® is used in our systems so you can be assured of the highest quality and performance.

- ◆ Effective reduction of fluoride over wide pH range
- ◆ No filter cartridges to replace and limited maintenance
- ◆ Cost-effective and long-lasting media
- ◆ Automated backwash keeps the media clean and operating efficiently



While bone char is best known for removing fluoride, it can also reduce many other contaminants including arsenic, and heavy metals like lead, copper, cadmium, and zinc. Pilot testing is recommended if you intend on using bone char to target any of these other contaminants. Other media options like MetSorb® may be more effective and should be considered. Because bone char also contains activated carbon, it can also be used to remove chlorine and certain organic compounds responsible for bad tastes and odours.





- ◆ Protect teeth
- ◆ Prevent brittle bones



- ◆ Refreshing and great tasting water
- ◆ Removes disinfection byproducts
- ◆ Pennies per day



- ◆ Removes fluoride
- ◆ Removes bad tastes and odours
- ◆ Removes chlorine

Popular Add-Ons and Accessories

Vortech



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.



No Raw Water Bypass Valve

During backwash, 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 backwash, 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.

Specifications & Operating Conditions

BC-HP Series	8-44	9-48	10-54	12-52	13-54	14-65
Optimal Service Flow Rate (GPM)*	3	4	6	8	10	12
Maximum Service Flow Rate (GPM)*	4	5	7.5	10	12.5	15
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 / 10	10 / 13

Min. / Max. Water Pressure	20 / 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)***
Maximum pH Level	8.3****

* 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.

** 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.

**** If the pH level is less than 7.0, pH correction is strongly recommended to prevent long-term corrosion damage to your plumbing system, and to prevent leaching of metals from plumbing components and solder in your plumbing system.

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