

Commercial Heavy Duty Water Filter with 2" High Molecular Weight (HM) Plastic Valve Water Filters

All systems are available in single, duplex, triplex, and quadplex operation.

Models: PA172 and PA242

Activated Carbon Filters

The activated carbon filters offer an effective method to remove chlorine taste and odor, and other organic contaminants in a water supply. Small amounts of color and low levels of hydrogen sulfide may also be removed with activated carbon. In some difficult water conditions, it may be necessary to use a different grade of carbon other than the standard grade.

Multi-Media Filters

The multi-media filters provide an efficient means to remove sediment and particulate matter from a water supply. Multi-media filters use stratified layers of graduated size media which offer a depth filtration process through the filter. The larger particles are filtered out at the top of the media and the bottom layers filter out particles as small as ten microns.

Greensand Filters

The greensand filters employ a manganese coated greensand as the main media in the filter. Additional media are used to provide a depth filtration process, similar to the multi-media filter. The feed water must be treated to provide a continuous oxidation of iron, manganese and hydrogen sulfide for effective and efficient operation. This requires using a chemical feed pump to inject potassium permanganate into the supply water.



Features

- Innovative 2" HM Plastic Valve
- Electronic Demand Control Module
- Fully Programmable
- Safe 24-Volt Electronics
- Non-Volatile Memory
- Water Usage is Metered by Turbine
- Washed Quartz Underbedding
- Exceptional Flow Rates
- Automatic Bypass During Backwash
- Fiberglass Reinforced Resin Tank
- Self-Cleaning Distributors
- Non-Corrosive Plastic Piston

Specifications

All systems are available in single, duplex, triplex, and quadplex operation.

Model	Design Flow Optimum	Flow Rates Peak	Tank Size	Pipe Size	Backwash Flow Rate	Carbon Media	Washed Quartz				
Carbon Filters								①			
PA172CS	8 gpm	16 gpm	17" x 58"	2"	15 gpm	104#/4 cu. ft.	100#/1 cu. ft.				
PA242CS	15 gpm	30 gpm	24" x 72"	2"	30 gpm	260#/10 cu. ft.	150#/1.5 cu. ft.				
Model	Design Flow Optimum	Flow Rates Peak	Tank Size	Pipe Size	Backwash Flow Rate	Washed Quartz	Garnet Media	Filter Sand Media	Anthracite Media		
Multi-Media Filters								①	②	③	④
PA172MS	15 gpm	30 gpm	17" x 58"	2"	25 gpm	100#/1 cu. ft.	50#/.4 cu. ft.	100#/1 cu. ft.	156#/3 cu. ft.		
PA242MS	30 gpm	60 gpm	24" x 72"	2"	50 gpm	150#/1.5 cu. ft.	150#/1.2 cu. ft.	250#/2.5 cu. ft.	312#/6 cu. ft.		
Model	Design Flow Optimum	Flow Rates Peak	Tank Size	Pipe Size	Backwash Flow Rate	Washed Quartz	Garnet Media	Greensand Media	Anthracite Media		
Greensand Filters								①	②	③	④
PA172GS	8 gpm	13 gpm	17" x 58"	2"	25 gpm	100#/1 cu. ft.	50#/.4 cu. ft.	255#/3 cu. ft.	78#/1.5 cu. ft.		
PA242GS	15 gpm	24 gpm	24" x 72"	2"	50 gpm	150#/1.5 cu. ft.	150#/1.2 cu. ft.	510#/6 cu. ft.	156#/3 cu. ft.		

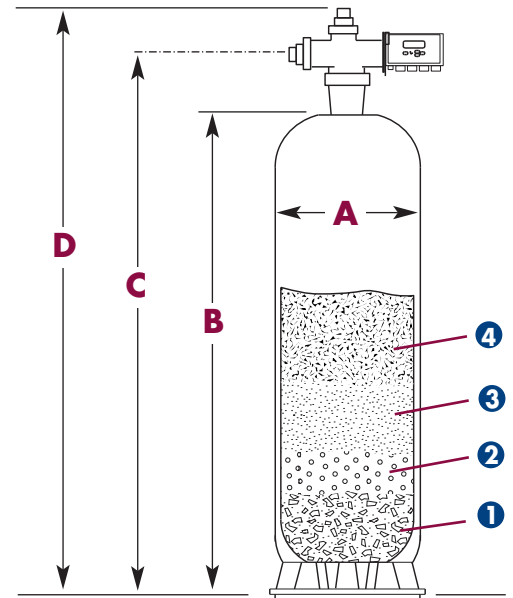
Notes

The filters are operated on a demand basis utilizing a water meter and control with an override option to initiate a backwash on a more frequent basis.

The filters will operate very effectively at the optimum flow rates and should be operated at the peak flow for only short periods of time.

Dimensions

Model	A	B	C	D
PA172	17"	58"	67"	72.5"
PA242	24"	72"	81"	86.5"



The North Star Water Conditioning Commercial Heavy Duty Water Filter is subject to a limited warranty that may give you specific rights. A copy of the warranty is in the Professional Advantage Series installation manual. Please read the warranty carefully before installing or using a North Star Water Conditioning Water Filter.

North Star
WATER CONDITIONING

A Marmon Water/Berkshire Hathaway Company
The Science Behind Better Water®

P.O. Box 64310
St. Paul, MN 55164-4310
1-800-972-0135
FAX 651-739-5293
www.northstarconditioning.com

North Star Water Conditioning
5240 Bradco Boulevard
Mississauga, Ontario
Canada L4W 1G7
1-800-79-NORTH

North Star Water Conditioning
Geelseweg 56
2250 Olen
Belgium



Made in USA



North Star Water Conditioning
#1 Independent Bus. Pk. Mill Rd.
Stokenchurch, Bucks
United Kingdom HP14 3TP