

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

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

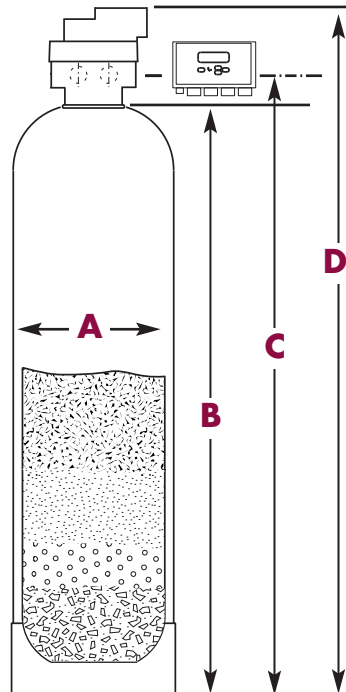
Models: PA121XS, PA171XS, PA121CS, PA171CS, 121GS, and 121MS

Dimensions

INLET-OUTLET	
PIPE SIZE	CENTER LINES
1"*	3.8"

*Sweat copper fittings supplied

Model	A	B	C	D
PA121XS				
PA121CS	12.3"	55"	57"	65.75"
PA121GS				
PA121MS				
PA171XS	17.6"	59.5"	61.5"	70.25"
PA171CS				



Features

- Electronic Demand Control Module
- Washed Quartz Underbedding
- Automatic Bypass During Backwash
- Fiberglass Reinforced Resin Tank
- Water Usage Is Metered by Turbine
- Safe 24-Volt Electronics
- Self-Cleaning Upper and Lower Distributors
- Exceptional Flow Rates
- Durable Single-Rotor Polyurethane Valve

Specifications

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

Multi-Purpose Filters (sold without media)	PA121XS 12" x 54" Tank	PA171XS 17" x 58" Tank
Sediment Removal	based on water analysis	
Type of Mineral: <i>Filter Aggregate</i>	52/2	104/4
Washed Quartz (Sold in 17# bags)	17/.17	100/1
Service Water Flow Rate (GPM)	4-8	8-18
Required Drain Flow for Backwash and Fast Rinse (GPM)	7	15
Acid Neutralizer	based on water analysis	
Type of Mineral: <i>Neutralite</i>	6.0	6.0
Washed Quartz (Sold in 17# bags)	200/2	400/4
Service Water Flow Rate (GPM)	17/.17	100/1
Required Drain Flow for Backwash and Fast Rinse (GPM)	4-8	8-18
	7	15
Taste and Odor Filters	PA121CS 12" x 54" Tank	PA171CS 17" x 58" Tank
Type of Mineral: <i>Activated Carbon</i>	based on water analysis	
Washed Quartz (Sold in 17# bags)	84/2	168/4
Service Water Flow Rate (GPM)	17/.17	100/1
Required Drain Flow for Backwash and Fast Rinse (GPM)	4-8	8-18
	7	15
Iron Filters	PA121GS 12" x 54" Tank	NA
Amount of Mineral		
Washed Quartz (lbs./cu. ft.) Sold in 17# bags	17/.17	
Garnet (lbs./cu. ft.) Sold in 50# bags	25/.19	
Greensand (lbs./cu. ft.) Sold in 85# bags	128/1.5	
Anthracite (lbs./cu. ft.) Sold in 52# bags	26/.5	
Service Water Flow Rate (GPM)	4-8	
Required Drain Flow for Backwash and Fast Rinse (GPM)	10	
Iron Removal Limits (parts per million)	20	
Multi-Media Depth Filters	PA121MS 12" x 54" Tank	
Amount of Mineral		
Washed Quartz (lbs./cu. ft.) Sold in 17# bags	34/.34	
Garnet (lbs./cu. ft.) Sold in 50# bags	25/.19	
Filter Sand (lbs./cu. ft.) Sold in 50# bags	50/.5	
Anthracite (lbs./cu. ft.) Sold in 52# bags	52/1	
Service Water Flow Rate (GPM)	4-8	
Required Drain Flow for Backwash and Fast Rinse (GPM)	10	
Supply Water Limits	All Tanks	
Supply Water Pressure Limits (PSI)	30-125	
Supply Water Temperature Limits (°F)	35-100	

Operational Flows*

Model	Flow Rate (GPM) and Pressure (PSI) Loss (ΔP)								
	2 GPM	4 GPM	6 GPM	8 GPM	10 GPM	12 GPM	14 GPM	16 GPM	18 GPM
PA121XS, PA121CS PA121GS, PA121MS	1 ΔP	2.3 ΔP	3.9 ΔP	5.7 ΔP	7.9 ΔP				
PA171XS, PA171CS	.6 ΔP	1.1 ΔP	2.2 ΔP	3.3 ΔP	4.6 ΔP	5.9 ΔP	7.4 ΔP	9.7 ΔP	13.68 ΔP

*Data obtained from tests run by the University of Minnesota St. Anthony Falls Engineering Lab and is based on a non-fouled filter.

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®

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