

## Media Filtration Systems





## Overview

### Multi-Media Filters

High efficiency, in-depth filter system using a layered media bed of anthracite, silica sand, and two grades of sand for excellent filtration down to the order of 5 - 10 micron.

### Iron Removal Filters

Filter system capable of reducing iron, manganese, and hydrogen sulfide using manganese greensand filter media.

### Activated Carbon Filters

Granular Activated Carbon is designed for the reduction of chlorine, taste, odor, and dissolved organic material from municipal and industrial water supplies.

### Materials of Construction

- Media Tanks: Carbon steel /FRP with Safety Blue exterior paint
- Tank Lining: Epoxy painted
- Exterior Piping: Carbon steel or UPVC
- Internal Distributors: Sch 80 PVC/ABS
- Control Valves: UPVC/Steel

### Standard Equipment / Features

- Electronic system controller
- Timer initiated backwash cycle
- Water activated diaphragm style control valves
- NEMA-4X electrical enclosures
- Inlet/Outlet pressure gauges and sampling valves
- Factory Hydro-tested at 100 psig

### Operating Parameters

- Inlet Pressure: 30-100 psig
- Electrical: 220 VAC, 1-Ph, 50/60Hz
- Temperature: 5-43 °C

### Options Available

- Skid mounted, pre-piped, pre-wired systems
- Differential pressure switch backwash cycle
- Multiple tank parallel configurations
- ASME code stamped resin tanks
- PLC systems
- PVC or CPVC exterior face-piping (PVC standard for filters with 6" service)
- Stainless steel internal distributor piping
- Butterfly control valves (motorised standard for filters with 6" service)
- Air-scour backwash system
- Steam / hot water sanitizable carbon filters
- Alternate filter media (Birm, Filter-AG, Calcite)

## Multimedia Filter Specifications

MODEL NO	FLOW RATES		PIPE SIZE		MEDIA	TANK SIZE	OVERALL DIMENSIONS (INCHES)	SHIPPING WEIGHT (LBS)
	SERVICE GPM	BACK WASH	SERVICE INCHES	DRAIN INCHES			v	w
		GPM					SINGLE (LxWxH)	SINGLE
W-20	20	35	1.5	1.5	5	20x54	21x30x72	1,200
W-30	30	45	1.5	2	8	24x54	25x34x73	1,500
W-50	50	75	2	2.5	12	30x54	31x40x76	2,200
W-70	70	105	2.5	3	18	36x60	37x48x84	2,900
W-100	100	145	2.5	4	24	42x60	43x54x88	3,700
W-125	125	190	3	4	32	48x60	49x62x95	5,100
W-160	160	240	3	4	40	54x60	55x70x97	6,300
W-200	200	300	3	6	50	60x60	61x76x103	8,100
W-240	240	360	4	6	60	66x60	67x82x105	11,000
W-285	285	425	4	6	70	72x60	73x88x107	14,300
W-385	385	580	6	6	95	84x60	85x104x102	19,600
W-500	500	750	6	6	125	96x60	96x122x110	25,200
W-640	640	950	8	8	160	108x60	109x134x112	31,500
W-800	800	1175	8	8	200	120x60	121x146x115	37,500



### Middle East Office

P.O Box - 8872

Works Q4 -115

SAIF Zone - Sharjah - U.A.E

Ph : +971 6 5529840

Fax : +971 6 5529841

E-Mail : info@waterengrs.com

Web : www.waterengrs.com

### Notes

- \* At expected pressure loss not exceeding 5 psig, based on a clean filter bed.
- \* Actual dimensions may vary based on job-site space limits and piping layout.
- \* Allow a minimum of 24" above height dimension for resin loading. Use of ASME rated tanks may add up to 12" of tank height.
- \* Consult factory for dimensions on skid mounted systems.
- \* Shipping weights are estimate only. Weights include resin and support gravel, which are added to the tanks after installation.

**Sustainable Water Solutions**