Canature™ WaterGroup

Commercial/Industrial Engineering Division

MVS SERIES FILTER SYSTEMS

Operating Parameters

- Inlet Pressure: 30-100 psi
- Electrical: 120 VAC, 60Hz
- Temperature: 35-110 °F*

Materials of Construction

- Resin Tanks: Corrosion resistant fibreglass reinforced polyethylene NSF 61 Certified
- Control Valves: Plastic PPO (Noryl)
- Internal Distributors: Sch 80 PVC/ABS
- Exterior Piping: Sch 80 PVC

Standard Features

- Electronic system controller
- Time initiated back wash
- Water or air activated diaphragm style control valves

Options

- Single, Duplex, Triplex, Quad
- Alternate Medias: Birm, Greensand, Carbon, Chem-free, NextSand, Multi-media

*For temperatures above 90 °F contact your local representative.

Designed, Engineered & Assembled in the U.S.A.

Canature WaterGroup™ has dedicated professional engineers with decades of commercial water treatment experience. Over the years, they have built a reputation for designing efficient, high quality commercial water treatment systems. Our MVS (Multiple Valve System) Series filters provide Commercial / Industrial high quality filtered water with systems starting from 30" up to 63" diameter pressure vessels. The systems are engineered and thoroughly tested to provide years of reliable, trouble free performance with minimal maintenance.

For Applications Such As:

Apartments • Boiler Treatment • Cooling Towers • Motels • Schools • Nursing Homes
Car Wash • Dairies • Factories • Laundromats • Office Buildings • Resorts
Restaurants • Ro Pre-Treatment • Hospitals

Multi Media Filters

DMM Series Single Model	Typical Service Flow Rate	RO Service Flow Rate	Max Flow To Drain	PIPE SIZE Service	PIPE SIZE Drain	Media	Mineral Tank Diameter	Mineral Tank Height	Installation Height	Installation Depth	Installation Width	Shipping Weight	Operating Weight
	USPGM	USPGM	USPGM	In	In	CF	In	In	In	In	In	Lbs	Lbs
	(L/S)	(L/S)	(L/S)	(mm)	(mm)	(M3)	(mm)	(mm)	(mm)	(mm)	(mm)	(Kg)	(Kg)
DMM 30-2"	48.0	39.0	60.0	2"	2"	12.5	30	72	104	45	36	1,800	3,400
	3.0	2.5	3.8	50	50	0.35	762	1,829	2,642	1,143	914	817	1,543
DMM 36-2"	69.0	57.0	85.0	2"	2"	17.6	36	72	105	51	42	2,500	4,500
	4.3	3.6	5.4	50	50	0.50	914	1,829	2,667	1,295	1,067	1,134	2,042
DMM 42-3"	96.0	77.0	120.0	3"	3"	24.0	42	72	113	65	48	3,400	6,800
	6.0	4.9	7.6	75	75	0.68	1,067	1,829	2,870	1,651	1,219	1,543	3,085
DMM 48-3"	126.0	100.0	160.0	3"	3"	31.0	48	72	115	71	54	4,300	8,600
	7.9	6.3	10.1	75	75	0.88	1,219	1,829	2,921	1,803	1,372	1,951	3,902
DMM 63-4"	216.0	173.0	270.0	3"	4"	54.0	63	86	118	86	69	7,900	15,100
	13.6	10.9	17.0	75	100	1.53	1,600	2,184	2,997	2,184	1,753	3,584	6,851

Service based on 10 usgpm/^{ft2} RO based on 8 usgpm/ft2

Next Sand Filters

DNX Series Single Model	Typical Max.Recommended Flow Rates	Peak Max.Recommended Flow Rates	RO Max.Recommended Flow Rates	Max Flow To Drain	PIPE SIZE Service	PIPE SIZE Drain	Media	Mineral Tank Diameter	Mineral Tank Height	Installation Height	Installation Depth	Installation Width	Shipping Weight	Operating Weight
	USPGM	USPGM	USPGM	USPGM	In	In	CF	In	In	In	In	In	Lbs	Lbs
	(L/S)	(L/S)	(L/S)	(L/S)	(mm)	(mm)	(M3)	(mm)	(mm)	(mm)	(mm)	(mm)	(Kg)	(Kg)
DNX 30-2"	48.0	73	39.0	60.0	2"	2"	12.5	30	72	104	45	36	1,600	3,200
	3.0	4.6	2.5	3.8	50	50	0.35	762	1,829	2,642	1,143	914	726	1,452
DNX 36-3"	69.0	105	57.0	85.0	3"	3"	17.6	36	72	105	51	42	2,100	4,100
	4.3	6.6	3.6	5.4	75	75	0.50	914	1,829	2,667	1,295	1,067	953	1,860
DNX 42-3'	96.0	144	77.0	120.0	3"	3"	24.0	42	72	113	65	48	2,800	6,200
	6.0	9.1	4.9	7.6	75	75	0.68	1,067	1,829	2,870	1,651	1,219	1,270	2,813
DNX 48-4"	126.0	188	100.0	160.0	4"	4"	31.0	48	72	115	71	54	3,578	7,878
	7.9	11.8	6.3	10.1	100	100	0.88	1,219	1,829	2,921	1,803	1,372	1,623	3,574

Typical service based on 10 usgpm/^{ft2} Peak based on 15 usgpm/^{ft2} Flowrates may change depending upon actual feed water quality water conditions

Backwash flowrates based on cold water. If regeneration feed water is above 45 ^{o}F, The backwash flow rate will have to be increased.

Carbon Filters

DAC Series Single Model	Typical Service Flow Rate	RO Pre-treat Service Flow Rate	Max Flow To Drain	PIPE SIZE Service	PIPE SIZE Drain	Media	Mineral Tank Diameter	Mineral Tank Height	Installation Height	Installation Depth	Installation Width	Shipping Weight	Operating Weight
	USPGM	USPGM	USPGM	In	In	CF	In	In	In	In	In	Lbs	Lbs
	(L/S)	(L/S)	(L/S)	(mm)	(mm)	(M3)	(mm)	(mm)	(mm)	(mm)	(mm)	(Kg)	(Kg)
DAC 30-2"	29.0	12.0	50.0	2"	2"	12.5	30	72	104	45	36	1,200	2,800
	1.8	0.8	3.2	50	50	0.35	762	1,829	2,642	1,143	914	544	1,270
DAC 36-2"	42.0	18.0	70.0	2"	2"	17.6	36	72	105	51	42	1,600	3,600
	2.6	1.1	4.4	50	50	0.50	914	1,829	2,667	1,295	1,067	726	1,633
DAC 42-3'	58.0	28.0	95.0	3"	3"	24.0	42	72	113	65	48	2,100	5,500
	3.7	1.8	6.0	75	75	0.68	1,067	1,829	2,870	1,651	1,219	953	2,495
DAC 48-3"	75.0	37.0	125.0	3"	3"	31.0	48	72	115	71	54	2,700	7,000
	4.7	2.3	7.9	75	75	0.88	1,219	1,829	2,921	1,803	1,372	1,225	3,176
DAC 63-4"	130.0	64.0	215.0	3"	4"	54.0	63	86	118	86	69	5,000	12,200
	8.2	4.0	13.5	75	100	1.53	1,600	2,184	2,997	2,184	1,753	2,269	5,535

Typical service based on 6 usgpm/^{ft2}, RO pretreat based on 2.5 usgpm/ft2

Manganese Greensand Filters

DMG Series Single Model	0-3 PPM Max Service Flow Rate	3-8 PPM Max Service Flow Rate	8-15 PPM Max Service Flow Rate	Max Flow To Drain	PIPE SIZE Service	PIPE SIZE Drain	Media	Mineral Tank Diameter	Mineral Tank Height	Installation Height	Installation Depth	Installation Width	Shipping Weight	Operating Weight
	USPGM	USPGM	USPGM	USPGM	In	In	CF	In	In	In	In	In	Lbs	Lbs
	(L/S)	(L/S)	(L/S)	(L/S)	(mm)	(mm)	(M3)	(mm)	(mm)	(mm)	(mm)	(mm)	(Kg)	(Kg)
DMG 30-2"	25.0	15.0	10.0	50.0	2"	2"	12.5	30	72	104	45	36	2,000	3,600
	1.6	0.9	0.6	3.2	50	50	0.35	762	1,829	2,642	1,143	914	907	1,633
DMG 36-2"	35.0	21.0	14.0	70.0	2"	2"	17.6	36	72	105	51	42	2,600	4,600
	2.2	1.3	0.9	4.4	50	50	0.50	914	1,829	2,667	1,295	1,067	1,180	2,087
DMG 42-3'	48.0	29.0	19.0	95.0	3"	3"	24.0	42	72	113	65	65	3,400	6,800
	3.0	1.8	1.2	6.0	75	75	0.68	1,067	1,829	2,870	1,651	1,651	1,543	3,085
DMG 48-3"	63.0	38.0	25.0	125.0	3"	3"	31.0	48	72	115	71	71	4,400	8,700
	4.0	2.4	1.6	7.9	75	75	0.88	1,219	1,829	2,921	1,803	1,803	1,996	3,947
DMG 63-4"	108.0	65.0	42.0	215.0	3"	4"	54.0	63	86	118	86	86	7,900	15,100
	6.8	4.1	2.6	13.5	75	100	1.53	1,600	2,184	2,997	2,184	2,184	3,584	6,851

System has basic chemical pump for continuous feed. For varing flowrates flow pace chemical feed is required (optional)

Birm Filters

DBF Series Model Single	Max Service Flow Rate	Max Flow To Drain Flow Rate	PIPE SIZE Service	PIPE SIZE Drain	Media	Mineral Tank Diameter	Mineral Tank Height	Installation Height	Installation Depth	Installation Width	Shipping Weight	Operating Weight
	USPGM	USPGM	In	In	CF	In	In	In	In	In	Lbs	Lbs
	(L/S)	(L/S)	(mm)	(mm)	(M3)	(mm)	(mm)	(mm)	(mm)	(mm)	(Kg)	(Kg)
DBF 30-2"	25	50	2"	2"	12.5	30	72	104	45	36	1,400	3,000
	1.6	3.2	50	50	0.35	762	1,829	2,642	1,143	914	635	1,361
DBF 36-2"	35	70	2"	2"	17.6	36	72	105	51	42	1,900	3,900
	2.2	4.4	50	50	0.50	914	1,829	2,667	1,295	1,067	862	1,770
DBF 42-3"	48	95	3"	3"	24.0	42	72	113	65	48	2,500	5,900
	3.0	6.0	75	75	0.68	1,067	1,829	2,870	1,651	1,219	1,134	2,677
DBF 48-3"	63	125	3"	3"	31.0	48	72	115	71	54	3,100	7,400
	4.0	7.9	75	75	0.88	1,219	1,829	2,921	1,803	1,372	1,407	3,358
DBF 63-4"	108	215	3"	4"	54.0	63	86	118	86	69	5,800	13,000
	6.8	13.5	75	100	1.53	1,600	2,184	2,997	2,184	1,753	2,632	5,898

Service flow rate based on 5 usgpm/^{ft2} Hydrocharger (air induction) system if required sold seperately.

Chem Free Filters

DCF Series Single Model	Service Flow Rate	Peak Flow Rate	Max Flow To Drain	PIPE SIZE Service	PIPE SIZE Drain	Media	Mineral Tank Diameter	Mineral Tank Height	Installation Height	Installation Depth	Installation Width	Shipping Weight	Operating Weight
	USPGM	USPGM	USPGM	In	In	CF	In	In	In	In	In	Lbs	Lbs
	(L/S)	(L/S)	(L/S)	(mm)	(mm)	(M3)	(mm)	(mm)	(mm)	(mm)	(mm)	(Kg)	(Kg)
DCF 30-2"	15	25	50	2"	2"	12.5	30	72	104	45	36	2,000	3,600
	0.9	1.6	3.2	50	50	0.35	762	1,829	2,642	1,143	914	907	1,633
DCF 36-2"	21	35	70	2"	2"	17.6	36	72	105	51	42	2,600	4,600
	1.3	2.2	4.4	50	50	0.50	914	1,829	2,667	1,295	1,067	1,180	2,087
DCF 42-3"	29	48	95	3"	3"	24.0	42	72	113	65	48	3,700	7,100
	1.8	3.0	6.0	75	75	0.68	1,067	1,829	2,870	1,651	1,219	1,679	3,221
DCF 48-3"	38	63	125	3"	3"	31.0	48	72	115	71	54	4,700	9,000
	2.4	4.0	7.9	75	75	0.88	1,219	1,829	2,921	1,803	1,372	2,132	4,083
DCF 63-4"	65	108	215	3"	4"	54.0	63	86	118	86	69	8,400	15,600
	4.1	6.8	13.5	75	100	1.53	1,600	2,184	2,997	2,184	1,753	3,811	7,078

Service based on 3 usgpm/^{ft2}, Peak based on 5 usgpm/^{ft2}. System must be designed to draw air continuously.

DMM FILTER (MULTI-MEDIA)

For removal of sediment, dirt and other forms of suspended matter. Provides particle filtration down to 10 micron. Media has excellent chemical properties—high silica content and low soluble calcium, magnesium and iron compounds.

DAC FILTER (ACTIVATED CARBON)

For the reduction of tastes, odors and dissolved organic chemicals from municipal and industrial water supplies. The media has exceptionally high internal surface area with optimum pore size for the adsorption of a broad range of low molecular weight organic contaminants and oxidizing agents like chlorine and ozone.

DBF FILTER (BIRM)

For the reduction of dissolved iron and manganese compounds. The Birm media is not consumed in the iron removal operation resulting in a low attrition loss. It has a wide temperature performance range and extremely high removal efficiency. The media does not require chemicals for regeneration and only periodic backwashing is required.

DNX FILTER (NEXTSAND)

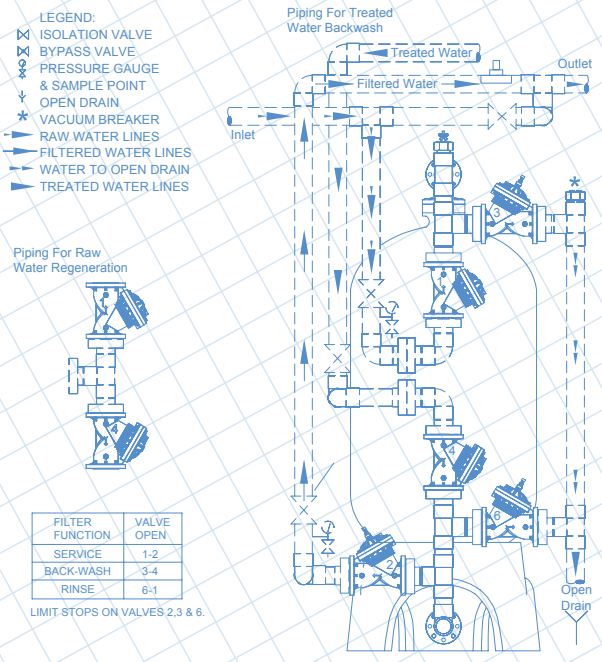
High capacity filtration for removal of sediment, dirt and other forms of suspended matter. Provides particle filtration down to 3 micron with 3-4 times increased service flow rate per square foot bed area over traditional sand media filters. Provides high flow rates, lower pressure drop and superior filtration performance

DMG FILTER (GREENSAND)

For the oxidation and removal of iron, manganese, and hydrogen sulfide. Provides filtration level to 30 micron. Requires a potassium permanganate, chlorine, or other strong oxidant injection assembly to assist oxidative capacity of the filter media

DCF CHEMFREE FILTER

For the reduction of dissolved and precipitated iron. No chemicals are added to the water supply or the filter. The system uses air as the oxidant drawn in by the hydrocharger bank (sold separately). The system must be designed to draw air continuously.



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