

Media Filtration Systems

Watts offers a complete line of media filtration systems for a wide variety of applications. Our Micro Z media offers superior performance, reducing particulate matter down as low as 3 micron with 2.5 times the dirt holding capacity of sand. Watts Filox media for iron, manganese, and hydrogen sulfide reduction has the highest flow rate in the market today at 6gpm.

Watts also offers other media's such as Activated Carbon, Calcite, and GreensandPlus™ to meet all your needs.

DID YOU KNOW?

Micro Z is a single media replacement for multimedia (anthracite, sand, and garnet). It saves on shipping cost, and eliminates questions about which media goes in the tank first. It also has a higher service flow rate with a lower pressure drop and finer filtration with higher dirt holding capacity.

Automatic Backwashing with Micro Z

Whole House Filters For Sediment Reduction with High Efficiency Micro Z™ Filter Media

Our filtration systems for sediment use high performance Micro Z filter media to provide increased loading capability and higher service flow rates. Micro Z's unique Zeolite structure offers increased porosity to outperform conventional sand filters by reducing water consumption. Our Micro Z media offers superior performance, reducing particulate matter down as low as 3 micron with 2.5 times the dirt holding capacity of sand.

The need to backwash is dramatically reduced!

Features & Benefits

- Uses Micro Z™ for increased dirt holding capacity
- Unique structure allows for higher flow rates
- Reduces water consumption because the need to backwash is dramatically reduced
- Reliable equipment, designed for long-term service



W110 Valve

W100 Valve

Models with Watts Valves

MODEL NO.	VALVE	PIPE SIZE (IN.)	TANK SIZE	MEDIA (CU. FT.)	PEAK SERVICE FLOW (GPM)	BACKWASH (GPM)	FLOOR SPACE (L X W X H)	SHIP WT (LBS)
Residential Systems with Standard Tanks								
NM09-CK10F	W100	1	9 x 48	1	5/9	5.3	16 x 10 x 55	110
NM10-CK10F	W100	1	10 x 54	1.5	7/10	7.5	16 x 11 x 62	140
NM12-CK10F	W100	1	12 x 52	2	9/15	11	17 x 13 x 60	200
NM14-CK10F	W100	1 1/4 - 1 1/2	14 x 65	3	13/21	15	18 x 15 x 74	310
NM16-CK10F	W100	1 1/4 - 1 1/2	16 x 65	4	17/28	25	20 x 17 x 74	425
NM09-W110	W110	1	9 x 48	1	9	7	16 x 10 x 55	110
NM10-W110	W110	1	10 x 54	1.5	10	7	16 x 11 x 62	140
NM12-W110	W110	1	12 x 52	2	15	12	17 x 13 x 60	200
NM14-W110	W110	1	14 x 65	3	21	15	18 x 15 x 74	310
Residential Systems with Vortech Tanks								
NM09-W100F	W100	1	9 x 48	1	5/9	5.3	16 x 10 x 55	110
NM10-W100F	W100	1	10 x 54	1.5	7/10	7.5	16 x 11 x 62	140
NM12-W100F	W100	1	12 x 52	2	9/15	11	17 x 13 x 60	200
NM14-W100F	W100	1 1/4 - 1 1/2	14 x 65	3	13/21	15	18 x 15 x 74	310
NM16-W100F	W100	1 1/4 - 1 1/2	16 x 65	4	17/28	25	20 x 17 x 74	425

Automatic Backwashing Filox® and GreensandPlus™ Filters

Whole House Filters for Iron, Hydrogen Sulfide and Manganese Reduction

Iron, Manganese and Hydrogen Sulfide are common elements found in your water and can be a nuisance causing stains in sinks, bathtubs, toilets, driveways and even the side of your house. In addition Iron, Manganese and Hydrogen Sulfide release unpleasant odors and tastes to your water supply. FILOX® and GreensandPlus™ are the great solutions to these challenging water quality problems.



W110 Valve 2510 Valve W100 Valve



Standard Mineral Tank
Standard tanks use gravel under bedding, which adds weight and cost. Also, re-bedding is more difficult, should riser tubes pull out of the gravel bed.



Vortech™ Mineral Tank
No gravel under bedding is required, reducing weight and cost. Also, riser tubes are permanently attached, so they cannot pull out during re-bedding.

Two Media Types

Filox®

A non-chemical oxidizing media to reduce Iron, Manganese and Hydrogen Sulfide.

GreensandPlus™

An enhanced version of the traditional medium to remove Iron, Manganese and Hydrogen Sulfide from water.

Filox® System Advantages

- Highest flow rate of any Iron removal media
- No oxidizing chemicals needed for regeneration
- High efficiency with 80% Manganese dioxide for enhanced performance and capacity
- Effective from 6.5 to 9.0 pH
- System is easy to program, with 10 pre-programmed regeneration cycles to optimize water treatment

GreensandPlus™ System Advantages

- Lower backwash requirements
- Known saturation capacity
- Higher temperatures and differential pressures than traditional Manganese Greensand
- GreensandPlus™ is also used for radium reduction
- User friendly, low maintenance electronic time clock valve
- Effective from 6.2 to 8.5 pH

Note: The use of chemicals and oxidizers, such as chlorine, potassium permanganate and oxygen may be required for both systems to provide the optimal treatment for Iron, Hydrogen Sulfide and Manganese.

Backwashing Filox Filters

MODEL NO.	VALVE	PIPE SIZE	TANK SIZE	MEDIA (CU. FT.)	PEAK SERVICE FLOW (GPM)	BACKWASH (GPM)	FLOOR SPACE (LXWXH)	SHIP WT (LBS)
Residential Systems with Standard Tanks								
NF09-CK10F	W100	1	9X48	1	6	5.3	16X10X55	167
NF10-CK10F	W100	1	10X54	1.5	9	7.5	16X11X62	235
NF12-CK10F	W100	1	12X52	2	12	10	17X13X60	318
NF14-CK10F	W100	1 1/4 - 1 1/2	14X65	3	18	15	18X15X74	460
NF16-CK10F	W100	1 1/4 - 1 1/2	16X65	4	24	20	20X17X74	611
NF21-CK10F	W100	1 1/4 - 1 1/2	21X62	5	27	25	22X23X70	798
N2410-F	Fleck 2510	3/4	8X44	0.5	3	7	12X10X54	97
N2349-F	Fleck 2750	1	9X48	0.6	3.6	7	13X11X58	122
N2350-F	Fleck 2750	1	10X35	0.6	3.6	9	14X12X46	125
N2352-FA	Fleck 2750	1	12X52	2	12	15	14X14X63	303
N2353-F	Fleck 2750	1	13X54	2.3	13.8	15	15X15X63	342
N2415-F	Fleck 2850	1 1/2	14X47	2.1	12.6	15	16X16X58	367
NF09-W110	W110	1	9X48	1	6	7	16X10X55	167
NF10-W110	W110	1	10X54	1.5	9	7	16X11X62	235
NF12-W110	W110	1	12X52	2	12	12	17X13X60	318
NF14-W110	W110	1	14X65	3	18	15	18X15X74	460
Residential Systems with Vortech Tanks								
NF09-W100F	W100	1	9 X 48	1	6	5.3	16X10X55	157
NF10-W100F	W100	1	10 X 54	1.5	9	7.5	16X11X62	220
NF12-W100F	W100	1	12 X 52	2	12	10	17X13X60	300
NF14-W100F	W100	1 1/4 - 1 1/2	14 X 65	3	18	15	18X15X74	410
NF16-W100F	W100	1 1/4 - 1 1/2	16 X 65	4	24	20	20X17X74	515
N2349-FAIO	Fleck 2510AIO	1	9X48	1	6	7	13X11X61	148
N2350-FAIO	Fleck 2510AIO	1	10X54	1.5	9	8	14X12X67	209
N2351-FAIO	Fleck 2510AIO	1	12X52	2	12	12	14X13X65	270
N2352-FAIO	Fleck 2510AIO	1	13X65	2.5	15	15	18X15X76	337
N2353-FAIO	Fleck 2510AIO	1	14X65	3	18	20	18X16X76	411

Automatic Backwashing Filox® and GreensandPlus™ Filters (cont.)

Backwashing GreensandPlus™ Filters

MODEL NO.	VALVE	PIPE SIZE	TANK SIZE	MEDIA (CU. FT.)	PEAK SERVICE FLOW (GPM)	BACKWASH (GPM)	FLOOR SPACE (LXWXH)	SHIP WT (LBS)
Residential Systems with Standard Tanks								
NGP09-CK10F	W100	1	9X48	1	3	5.3	16X21X55	137
NGP10-CK10F	W100	1	10X54	1.5	4	7.5	16X22X62	190
NGP12-CK10F	W100	1	12X52	2	5	10	17X24X60	258
NGP14-CK10F	W100	1 1/4 - 1 1/2	14X65	3	6	12	18X33X74	370
NGP16-CK10F	W100	1 1/4 - 1 1/2	16X65	4	7	20	20X35X74	491
NGP09-W110	W110	1	9X48	1	3	5	16X21X55	137
NGP10-W110	W110	1	10X54	1.5	4	7	16X22X62	190
NGP12-W110	W110	1	12X52	2	5	10	17X24X60	258
NGP14-W110	W110	1	14X65	3	6	12	18X33X74	370

Non-Backwashing Carbon Filters

These non-backwashing carbon filters are a great solution for wide variety of water related issues where backwashing is either restricted or not possible. Applications include dechlorination, taste and odor reduction, and VOC/TOC reduction. Standard pipe size offerings are 3/4" and 1" FNPT and head materials are Noryl and PVC.

Features & Benefits

- Non Backwashing
- Simple In/Out Head for Easy Installation
- No Electricity Required
- No Drain Required
- Small Foot Print



Non-Backwashing Tanks

MODEL NO.	VALVE	PIPE SIZE (IN)	TANK SIZE	MEDIA (CU. FT.)	PEAK SERVICE FLOW (GPM)	BACKWASH (GPM)	FLOOR SPACE (LXWXH)	SHIP WT (LBS)
Residential Systems with Standard Tanks								
N1041-3	None	3/4	9 x 48	1	4	None	10X10X53	85
N1042A	None	3/4	8 x 44	1	4	None	9X9X49	80
N1042A-1	None	1	8 x 44	1	4	None	9X9X49	80
N1043B-1	None	1	12 x 52	2.5*	10	None	13X13X57	125
N1043-SD	None	2	10 x 54	2	8	None	11X11X59	95

* Note: The N1043B-1 also has 12 lbs of KDF55 installed.

Automatic Backwashing Carbon Filters

Fully assembled backwashing filters with activated carbon and Micro Z™

Whole House Filters For Chlorine, Taste, Odor And Sediment Reduction.

Our activated carbon filters are highly popular because they correct a wide range of water quality problems by removing chlorine, tastes, odors and sediment.

Benefits

- Great tasting water from every tap
- No bad tastes
- No foul odors
- User-friendly equipment
- Low maintenance due to automatic operation

Vortech™ Mineral Tank

Media contact time is improved with Vortech tanks by enhancing the water flow path.



Backwashing Filters With Activated Carbon For Taste, Odor And Chlorine Reduction

MODEL NO.	VALVE	PIPE SIZE (IN)	TANK SIZE	MEDIA (CU. FT.)	PEAK SERVICE FLOW (GPM)	BACKWASH (GPM)	FLOOR SPACE	SHIP WT (LBS)
Residential Systems with Standard Tanks								
N2050D	Fleck F5600	3/4	9X48	1	4	4	16"x10"x55"	90
N2050	Fleck F2510	3/4	9X48	1	4	4	13"x11"x58"	90
N2051	Fleck F2510	3/4	10X54	1.5	6	5	12"x11"x65"	105
N2051-1	Fleck F2750	1	10X54	1.5	8	5	12"x11"x65"	90
N2052	Fleck F2510	3/4	12X52	2	6	7	14"x13"x65"	117
N2052-1	Fleck F2750	1	12X52	2	8	7	14"x13"x65"	105
N2056	Fleck F2750	1	14X65	3	11	10	16"x15"x77"	194
N2058	Fleck F2750	1	16X65	4	15	12	18"x17"x77"	254
NC09-CK10F	W100	1	9X48	1	4	4.2	16"x10"x55"	80
NC10-CK10F	W100	1	10X54	1.5	6	5.3	16"x11"x62"	105
NC12-CK10F	W100	1	12X52	2	8	7.5	17"x13"x60"	145
NC14-CK10F	W100	1 1/4 - 1 1/2	14X65	3	11	10	18"x15"x74"	200
NC16-CK10F	W100	1 1/4 - 1 1/2	16X65	4	14	11	20"x17"x74"	265
NC21-CK10F	W100	1 1/4 - 1 1/2	21X62	5	20	25	22"x23"x70"	365
NC09-W110	W110	1	9X48	1	4	4	16"x10"x55"	80
NC10-W110	W110	1	10X54	1.5	6	5	16"x11"x62"	105
NC12-W110	W110	1	12X52	2	8	7	17"x13"x60"	145
NC14-W110	W110	1	14X65	3	11	10	18"x15"x74"	200
NC16-W110	W110	1	16X65	4	14	12	20"x17"x74"	265
Residential Systems with Vortech™ Tanks								
NC09-W100F	W100	1	9X48	1	4	4.2	10"x20"x48"	80
NC10-W100F	W100	1	10X54	1.5	6	5.3	12"x20"x65"	105
NC12-W100F	W100	1	12X52	2	8	7.5	14"x20"x65"	145
NC14-W100F	W100	1 1/4 - 1 1/2	14X65	3	11	10	16"x20"x77"	200
NC16-W100F	W100	1 1/4 - 1 1/2	16X65	4	14	11	18"x20"x77"	265
NC21-W100F	W100	1 1/4 - 1 1/2	21X62	5	20	25	24"x23"x84"	365

Note: Systems with Fleck 5600 and 2510 valves include a 0.75" bypass.

Backwashing Filters With Activated Carbon For Taste, Odor And Chlorine Reduction (cont.)

MODEL NO.	VALVE	PIPE SIZE (IN)	TANK SIZE	MEDIA (CU. FT.)	PEAK SERVICE FLOW (GPM)	BACKWASH (GPM)	FLOOR SPACE	SHIP WT (LBS)
Commercial Systems with Standard Tanks								
N2058B	Fleck 2850	1 1/2	16X65	4	15	12	18"x17"x77"	260
N7022-2850	Fleck 2850	1 1/2	21X62	6	22	26	24"x23"x84"	410
N7032-2850	Fleck 2850	1 1/2	24X72	10	37	30	26"x25"x92"	670
N7022	Fleck 2900	2	21X62	5	18	25	24"x23"x88"	416
N7032	Fleck 2900	2	24X72	10	37	30	26"x25"x96"	680
N2332	Fleck 3150	2	24X72	8	30	30	28"x24"x107"	735
N2333	Fleck 3150	2	30X72	10	37	50	38"x30"x107"	1432
N2334	Fleck 3150	2	36X72	20	74	70	48"x40"x107"	3038
N4110	Fleck 3900	3	30X72	14	52	50	38"x30"x114"	1450
N4112	Fleck 3900	3	36X72	20	74	70	48"x40"x114"	1965
N4114	Fleck 3900	3	42X72	27	100	90	54"x46"x114"	2955
N4116	Fleck 3900	3	48X72	35	130	100	60"x52"x114"	3645
N5010	Aquamatic PDVN	2	24X72	8	30	30	36"x27"x90"	680
N5011	Aquamatic PDVN	2	30X72	15	55	50	42"x33"x90"	1025
N5012	Aquamatic PDVN	2	36X72	20	74	70	48"x40"x90"	1530
N5013	Aquamatic PDVN	2	42X72	30	111	90	57"x50"x90"	2050
N5014	Aquamatic PDVN	2	48X72	35	130	120	60"x54"x90"	3095
N5015	Aquamatic PDVN	3	63X86	64	237	210	75"x69"x98"	4091

Note: The service flow rates listed for the carbon filters are for dechlorination. Slower flow rates may be required depending on the specific contaminant and concentration of the contaminant.

⚠ WARNING Wet activated carbon preferentially removes oxygen from air. In closed or partially closed containers and vessels, oxygen depletion may reach hazardous levels. If workers are to enter a vessel containing carbon, appropriate procedures for potentially low-oxygen environment should be followed.

Backwashing Filters With Micro Z™ Media With Fleck Valves

MODEL NO.	VALVE	PIPE SIZE (IN)	TANK SIZE	MEDIA (CU. FT.)	PEAK SERVICE FLOW (GPM)	BACKWASH (GPM)	FLOOR SPACE	SHIP WT (LBS)
Residential Systems								
N5245-09	Fleck F2750	1	9x48	1	7	7	13"x11"x58"	110
N5245-09-70	Fleck F7000	1	9x48	1	7	7	20"x10"x58"	107
N5245-10	Fleck F2750	1	10x54	1.5	8	7	12"x11"x65"	140
N5245-10-70	Fleck F7000	1	10x54	1.5	8	10	20"x11"x65"	137
N5245-12	Fleck F2750	1	12x52	2	9	10	14"x13"x65"	167
N5245-12-70	Fleck F7000	1	12x52	2	12	12	20"x13"x65"	140
N5245-13	Fleck F2750	1	13X54	2.5	14	15	18"x14"x66"	178
Commercial Systems								
N5245-14	Fleck F2850	1 1/2	14X65	3	15	20	18"x15"x74"	258
N5245-16	Fleck F2850	1 1/2	16X65	4	21	20	18"x17"x77"	364
N5245-22	Fleck F2850	1 1/2	21X62	7	36	40	24"x23"x84"	595
N5245-24-3150	Fleck F3150	2	24X72	10	47	50	28"x24"x107"	1053
N5245-30-3150	Fleck F3150	2	30X72	15	73	85	38"x30"x107"	1967
N5245-30-3900	Fleck F3900	3	30X72	15	73	85	38"x30"x114"	2007
N5245-36-3150	Fleck F3150	2	36X72	20	106	100	48"x40"x107"	2485
N5245-36-3900	Fleck F3900	3	36X72	20	106	100	48"x40"x114"	2525
N5245-36-DVN	Aquamatic PDVN	2	36X72	20	106	100	48"x40"x90"	2480
N5245-48-DVN	Aquamatic PDVN	3	48X72	40	188	200	60"x54"x90"	4180

Note: Systems with the Fleck 7000 valve include a 1" By-Pass.

Backwashing Filters With Calcite and Magnesium Oxide To Increase pH

MODEL NO.	VALVE	PIPE SIZE (IN)	TANK SIZE	MEDIA (CU. FT.)	PEAK SERVICE FLOW (GPM)	BACKWASH (GPM)	FLOOR SPACE	SHIP WT (LBS)
Residential Systems								
N2070	Fleck F2510	3/4	9x48	1	4	4	13"x11"x58"	165
N2070-56	Fleck F5600	3/4	9X48	1	4	4	16"x10"x55"	130
N2076	Fleck F2750	1	14X65	3	16	10	16"x15"x77"	392
N2078	Fleck F2750	1	16X65	4	17	12	18"x17"x77"	537

Automatic Backwashing Systems without Media

NX Series Backwashing Filters - No Media

NX Series Backwashing Filters

Our popular backwashing filter systems are now available without media. The NX series come complete with control valve, by-pass.

- Add your "Special" media or blend that works best for your customers
- Save on Shipping
- Reduce your inventory
- Complete backwashing system just add media
- Drain line flow control washer included (sized for approximately 12 GPM per square foot)



W110 Valve

W100 Valve

NX Series Backwashing Filters without Media

MODEL NO.	VALVE	PIPE SIZE	TANK SIZE	MEDIA (CU. FT.)	GRAVEL (LBS)	BACKWASH (GPM)	FLOOR SPACE (LXWXH)	SHIP WT (LBS)
Residential Systems with Standard Tanks								
NX09-CK10F	W100	1	9X48	1	10	5.3	16X10X55	53
NX10-CK10F	W100	1	10X54	1.5	10	7.5	16X11X62	64
NX12-CK10F	W100	1	12X52	2	20	10	17X13X60	90
NX14-CK10F	W100	1 1/4 - 1 1/2	14X65	3	40	15	18X15X74	118
NX16-CK10F	W100	1 1/4 - 1 1/2	16X65	4	50	20	20X17X74	155
NX21-CK10F	W100	1 1/4 - 1 1/2	21X62	5	100	25	22X23X70	228
NX09-W110	W110	1	9X48	1	10	5	16X10X55	53
NX10-W110	W110	1	10X54	1.5	10	7	16X11X62	64
NX12-W110	W110	1	12X52	2	20	10	17X13X60	90
NX14-W110	W110	1	14X65	3	40	12	18X15X74	118
NX16-W110	W110	1	16X65	4	50	20	20X17X74	155
Commercial Systems with FRP Tanks								
NX14T2750	Fleck 2750	1	14x65	3	60	15	16X15X77	82
NX16T2750	Fleck 2750	1	16X65	4	80	20	18X17X77	89
NX16T2850	Fleck 2850	1 1/2	16X65	4	80	20	18X17X77	94
NX22T2850	Fleck 2850	1 1/2	21X62	7	100	30	24X23X84	144
NX24T2850	Fleck 2850	1 1/2	24X72	10	200	30	26X25X92	203
NX24T3150	Fleck 3150	2	24X72	10	200	40	28X24X107	270
NX24TDVN	Aquamatic PDVN	2	24X72	10	200	40	36X27X90	564
NX30T3150	Fleck 3150	2	30X72	15	400	60	38X30X107	376
NX30T3900	Fleck 3900	3	30X72	15	400	60	38X30X114	385
NX30TDVN	Aquamatic PDVN	2	30X72	15	400	60	42X33X90	704
NX36T3150	Fleck 3150	2	36X72	20	500	85	48X40X107	428
NX36T3900	Fleck 3900	3	36X72	20	500	85	48X40X114	477
NX36TDVN	Aquamatic PDVN	2	36X72	20	500	85	48X40X90	812
NX48TDVN	Aquamatic PDVN	2	48X72	35	1500	150	60X54X90	1428
NX48TDVN3	Aquamatic PDVN	3	48X72	35	1500	150	60X54X90	1634
Commercial Systems with Steel Tanks								
NX24T3150-STL	Fleck 3150 SM	2	24X60	10	200	30	39X30X84	598
NX30T3150-STL	Fleck 3150 SM	2	30X60	15	400	50	45X34X84	851
NX36T3150-STL	Fleck 3150 SM	2	36X60	20	500	70	51X38X84	1089
NX36T3900-STL	Fleck 3900 SM	3	36X60	20	500	70	51X38X84	1228
NX42T3150-STL	Fleck 3150 SM	2	42X60	30	600	95	57X44X84	1345
NX42T3900-STL	Fleck 3900 SM	3	42X60	30	600	95	57X44X84	1500

Note: Systems come with a drain line flow controller sized between 10 and 15 gpm per square foot of bed area depending on the model. Make sure the drain line flow controller is adequately sized for your specific media requirements. Media and gravel quantities are listed for reference only. The systems do not include media and gravel.