

PURE WATER

Series PWM Micro Z Filter

Watts Pure Water Series PWM Micro Z filters are suitable for commercial applications requiring from 1 to 40 cubic feet of Micro Z with flow rates up to 251 gpm (950 lpm) for sediment reduction.



Operation of the Filter

Water containing sediment passes through a granular bed of Micro Z. Sediment is trapped within the Micro Z media bed and released to drain during backwashing.

Micro Z Media

Micro Z is a naturally occurring form of zeolite that offers superior filtration characteristics over and above sand, anthracite, and garnet products currently in use today. The key to Micro Z's performance is its hydrophilic properties combined with a jagged external surface texture. This gives Micro Z a sediment holding capacity of 2.8 times that of sand, which reduces backwash waste water volumes and provides higher service flow rates which reduces over all system size and cost. Micro Z has a 3 to 5 -micron nominal particle size removal rating versus 15-30 micron with other conventional backwashable medias. Micro Z is certified by WQA to NSF/ANSI standard 61.

Backwash Controller

These sediment filters feature an electronic controller that combines simplicity with flexibility in a user-friendly package that is easy to setup and operate. With the micro-processor controlled timer mechanism, the operator is able to program the lengths of backwash and rinse steps. Regeneration frequency is also programmable between 1 to 28 days. Important operational information is stored in the timer which can be accessed for trouble shooting purposes.

Control Valve

Systems 36" in diameter and smaller use a brass control valve that operates on command from the electronic valve controller. Valve positioning is accomplished by a hydraulically balanced piston which glides effortlessly along non-corrosive spacers and seals to precise locations.

This precision motor driven valve performs in the toughest applications, is WQA certified to NSF/ANSI standard 61 and 372, and is made of high-quality brass for a long reliable life.

Systems 42" in diameter and larger use a diaphragm valve nest which operates on command from the electronic valve controller to position the filter into its various modes of operation. Hydraulically actuated composite diaphragm valves connected with schedule 80 PVC piping create a design that is both rigid and corrosion resistant.

Micro Z Tanks

All models feature corrosion resistant fiberglass tanks, with a thermoplastic inner liner. All tanks are certified by WQA or NSF to NSF/ANSI standards.

⚠ WARNING

Do not use with water that is microbiologically unsafe or of unknown quality without adequate disinfection before or after the system.

Specifications

| MODEL NUMBER | TANK SIZE (IN.) | MINERAL TANK TANK SIZE Ft ² | MICRO Z Ft ³ | FLOW RATES FOR SERVICE AND BACKWASH | | | |
|--------------|-----------------|--|-------------------------|-------------------------------------|------------------------------------|------------------------|--------------|
| | | | | 10 GPM Ft ² | SERVICE GPM 15 GPM Ft ² | 20 GPM Ft ² | BACKWASH GPM |
| PWM10111A10 | 9x48 | .44 | 1.0 | 4.4 | 6.6 | 8.8 | 7.0 GPM |
| PWM10111B10 | 10x54 | .54 | 1.5 | 5.4 | 8.1 | 10.8 | 7.0 GPM |
| PWM10111C10 | 12x52 | .78 | 2.0 | 7.8 | 11.7 | 15.6 | 10 GPM |
| PWM15121D10 | 14x65 | 1.07 | 3.0 | 10.7 | 16.0 | 21.4 | 20 GPM |
| PWM15121E10 | 16x65 | 1.39 | 4.0 | 13.9 | 20.8 | 27.8 | 20 GPM |
| PWM15121G10 | 21x62 | 2.41 | 7.0 | 24.1 | 36.1 | 48.2 | 40 GPM |
| PWM20141H10 | 24x72 | 3.14 | 10 | 31.4 | 47.1 | 62.8 | 50 GPM |
| PWM20141I10 | 30x72 | 4.91 | 15 | 49.1 | 73.6 | 98.2 | 85 GPM |
| PWM30151J10 | 36x72 | 7.07 | 20 | 70.7 | 106.1 | 141.4 | 100 GPM |
| PWM30101K10* | 42x72 | 9.62 | 30 | 96.2 | 144.3 | 192.4 | 155 GPM |
| PWM30101M10* | 48x72 | 12.56 | 40 | 125.6 | 188.4 | 251.2 | 200 GPM |

*Uses a 3 inch plastic diaphragm valve nest

Ordering Information

| MODEL NUMBER | DESCRIPTION | PIPE SIZE | SPACE REQUIRED W x D x H (IN.) | WEIGHT | |
|--------------|---|-----------|--------------------------------|--------|------|
| | | | | LBS. | KGS. |
| PWM10111A10 | 1 Cubic Foot Micro Z™ filter with Auto Backwash | 1" | 13 x 12 x 60 | 118 | 54 |
| PWM10111B10 | 1.5 Cubic Foot Micro Z™ filter with Auto Backwash | 1" | 13 x 12 x 65 | 147 | 67 |
| PWM10111C10 | 2 Cubic Foot Micro Z™ filter with Auto Backwash | 1" | 13 x 14 x 65 | 173 | 79 |
| PWM15121D10 | 3 Cubic Foot Micro Z™ filter with Auto Backwash | 1.5" | 15 x 16 x 75 | 278 | 126 |
| PWM15121E10 | 4 Cubic Foot Micro Z™ filter with Auto Backwash | 1.5" | 17 x 18 x 75 | 366 | 166 |
| PWM15121G10 | 7 Cubic Foot Micro Z™ filter with Auto Backwash | 1.5" | 23 x 24 x 84 | 667 | 303 |
| PWM20141H10 | 10 Cubic Foot Micro Z™ filter with Auto Backwash | 2" | 27 x 27 x 95 | 1015 | 460 |
| PWM20141I10 | 15 Cubic Foot Micro Z™ filter with Auto Backwash | 2" | 33 x 33 x 95 | 1852 | 840 |
| PWM30151J10 | 20 Cubic Foot Micro Z™ filter with Auto Backwash | 3" | 40 x 48 x 114 | 2525 | 1145 |
| PWM30101K10* | 30 Cubic Foot Micro Z™ filter with Auto Backwash | 3" | 48 x 58 x 102 | 2895 | 1316 |
| PWM30101M10* | 40 Cubic Foot Micro Z™ filter with Auto Backwash | 3" | 54 x 60 x 102 | 3882 | 1765 |

*Uses a 3 inch plastic diaphragm valve nest

Notes:

- Flow rates, dimensions, and capacities are per tank.
- Pipe size, tank size, and space requirements are in inches.
- 20 gpm per square foot flow rates are for intermittent peak flows only and should not be used as continuous flows.



A Watts Water Technologies Company

USA: Tel: (800) 224-1299 • Fax: (978) 794-1848 • Watts.com/PureWater

Canada: Tel: (905) 332-4090 • Fax: (905) 332-7068 • Watts.ca/PureWater

Latin America: Tel: (52) 81-1001-8600 • Fax: (52) 81-8000-7091 • Watts.com/PureWater