Engineering Specification

Job Name _____ Contractor _____

Job Location _____ Approval _____

Engineer _____ Contractor's P.O. No. _____

Approval _____ Representative _____

Series PWFLMZ & PWML

Locksmith® Residential Micro Z™ Filtration Systems

WATTS® pure water

Watts Whole House Filters for superior sediment reduction

Connection Sizes: 1" & 1 1/4"
Flow Rates: Up to 13 gpm (49 lpm)

The Watts Pure Water Locksmith® Series PWFLMZ and PWML Micro Z residential filtration systems are backwashing media filters designed to reduce sediment and suspended solids from water.

These systems use the Watts-exclusive Locksmith controller, an integrated control board capable of operating 1" and 1.25" single, twin alternating, and multi-tank progressive flow softening and filtration systems without the need for an additional controller. The controller also supports external device operation, allowing for flexible system configurations to meet a wide range of application requirements.

Designed for residential applications, the PWFLMZ and PWML systems support peak flow rates up to 21 gpm (79 lpm) with media bed sizes ranging from 1 to 3 cubic feet. Higher flow demands can be accommodated by installing multiple units in parallel. Captured sediment is removed through an automatic, programmable backwash and flush cycle that is time- or demand-initiated and requires no manual intervention.

These sediment filtration systems are suitable for point-of-entry applications. Micro Z, a naturally occurring zeolite, provides superior filtration performance compared to sand, anthracite, and garnet media. Its hydrophilic properties and irregular surface structure allow for a sediment holding capacity up to 2.5 times greater than sand, reducing backwash water consumption while enabling higher service flow rates. Micro Z offers a nominal particle reduction rating of 3–5 microns, compared to 15–30 microns for conventional backwash-able media.

Common applications include sediment reduction in well and municipal water supplies, reverse osmosis pretreatment, micro-filtration and ultra-filtration pretreatment, cartridge pretreatment and general turbidity reduction.

Filtered water improves overall water quality for residential appliances, faucets, aerator screens, reverse osmosis systems, filtration systems, pools, aquariums, and washing and rinsing processes, helping reduce downtime and maintenance costs.

⚠ WARNING

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



PWFLMZ & PWML

Features and Benefits

- Superior filtration performance
- Higher solids loading capability
- Unique structure allows for higher flow rates
- Reduces water consumption because the need to backwash is dramatically reduced
- Reduces finer particles
- Reduces pressure drop
- Watts Locksmith proprietary electronic controller allows user friendly programmable function for application specific required control
- Fully adjustable backwash an flush cycles
- Micro Z filtration media is certified by IAPMO R&T to NSF/ANSI/CAN 61 for material safety and to NSF/ANSI/CAN 372 for lead free compliance

NOTICE

The information contained herein is not intended to replace the full product installation and safety information available or the experience of a trained product installer. You are required to thoroughly read all installation instructions and product safety information before beginning the installation of this product.

Watts product specifications in U.S. customary units and metric are approximate and are provided for reference only. For precise measurements, please contact Watts Technical Service. Watts reserves the right to change or modify product design, construction, specifications, or materials without prior notice and without incurring any obligation to make such changes and modifications on Watts products previously or subsequently sold.

WATTS®

Operating Parameters

pH . . . . . .6 to 8.5

Water Pressure* . . . . . .30 psi to 125 psi (205 kPa to 8.5 bar)

Temperature. . . . . .34 - 110°F (1 - 43°C)

Oil and H2S . . . . . .None Allowed

Operating Ambient Temperature . . . . .34° to 120°F (1° to 52°C)

Power Supply Input Voltage. . . . . .100-120 VAC

Power Supply Input Frequency . . . . . .50/60 Hz

Power Supply Output Voltage . . . . . .15 VDC

Power Supply Output Current . . . . . .500 mA (per control valve)

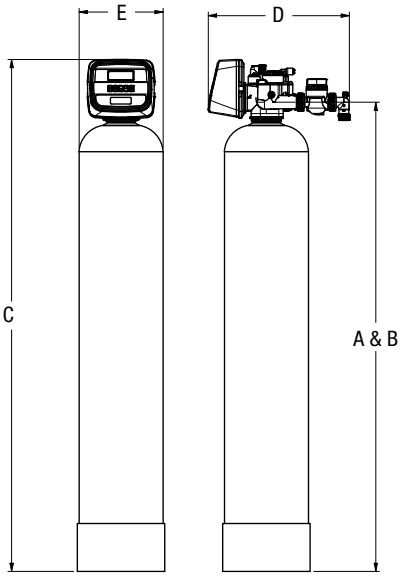
Water known to have heavy loads of dirt and debris may require pre-filtration prior to the water filtration system.

*It is established that when daytime water pressure exceeds 80psi (5.5 bar), the maximum pressure rating of 125psi (8.6bar) can be exceeded. A pressure regulator is required on this system or warranty is voided.

For all other guideline information please contact your Watts representative.

Dimensions & Weights

Series PWFLMZ & PWML



Series PWFLMZ

Call customer service (800-659-8400) if you need assistance with technical details.

MODEL NO.	DIMENSIONS										WEIGHTS	
	A		B		C		D		E			
	in.	*mm*	*in.*	*mm*	*in.*	*mm*	*in.*	*mm*	*in.*	*mm*	*lb*	*kg*
PWFLMZ1	50 1/2	1283	50 1/2	1283	55 1/2	1410	11 3/4	298	9 1/2	241	110	50
PWFLMZ15	56 1/2	1435	56 1/2	1435	61 3/4	1568	12 1/4	311	10 1/2	267	140	64
PWFLMZ2	55	1397	55	1397	60	1524	13 1/4	337	12 1/2	318	200	91
PWFLMZ3	66	1676	66	1676	71	1803	14 1/2	368	14 3/4	375	310	141

Series PWML

MODEL NO.	DIMENSIONS										WEIGHT	
	A		B		C		D		E			
	in.	*mm*	*in.*	*mm*	*in.*	*mm*	*in.*	*mm*	*in.*	*mm*	*lb*	*kg*
PWML125MZ1	50 1/2	1283	50 1/2	1283	55 1/2	1410	11 3/4	298	9 1/2	241	110	50
PWML125MZ15	56 1/2	1435	56 1/2	1435	61 3/4	1568	12 1/4	311	10 1/2	267	140	64
PWML125MZ2	55	1397	55	1397	60	1524	13 1/4	337	12 1/2	318	200	91

Specification and Ordering Information

MODEL NO.	ORDERING CODE	TANK SIZE	PIPE SIZE	MEDIA (CU FT)	PEAK SERVICE FLOW (GPM)	BACKWASH (GPM)	FLOOR SPACE (DXWXH)	SHIP WT. (LBS.)
PWFLMZ1	7101323	9x48	1	1	5/9	5.3	12" x 10" x 56"	110
PWFLMZ15	7101324	10x54	1	1.5	7/10	7.5	12" x 11" x 62"	140
PWFLMZ2	7101325	12x52	1	2	9/15	11	13" x 13" x 60"	200
PWFLMZ3	7101326	14x65	1	3	13/21	15	15" x 15" x 71"	310
PWML125MZ1	7101342	9x48	1 1/4	1	5/9	5.3	12" x 10" x 56"	110
PWML125MZ15	7101343	10x54	1 1/4	1.5	7/10	7.5	12" x 11" x 62"	140
PWML125MZ2	7101344	12x52	1 1/4	2	9/15	11	13" x 13" x 60"	200

NOTICE

Flow rates, dimensions and capacities are per tank. Pipe size, tank size and space requirements are in inches. Peak Service flow rates are for intermitten use only and is not to be interpreted as continuous service flow rate capability. These systems are designed to treat the domestic water used in a single family dwelling. For irrigation water treatment or higher volume applications, please contact your Watts Representative. Peak flow rates are based on a 15 psi drop. Optimum service flow rates is specific to water chemistry and will vary.

USA: T: (800) 659-8400 • Watts.com/PureWater
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Latin America: T: (52) 55-4122-0138 • Watts.com/PureWater

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