Engineering Specification

Job Name _____ Contractor _____

Job Location _____ Approval _____

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

Approval _____ Representative _____

Series AMZL-100 & AMZL-125

Locksmith® Residential Micro Z™ Filtration Systems

Watts Whole House Filters for superior sediment reduction

Connection Sizes: 1" & 1 1/4"

Flow Rates: Up to 13 gpm (49 lpm)

The Watts Locksmith® Series AMZL 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 AMZL 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.



AMZL-100 & AMZL-125

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

⚠ WARNING

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

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 AMZL-100

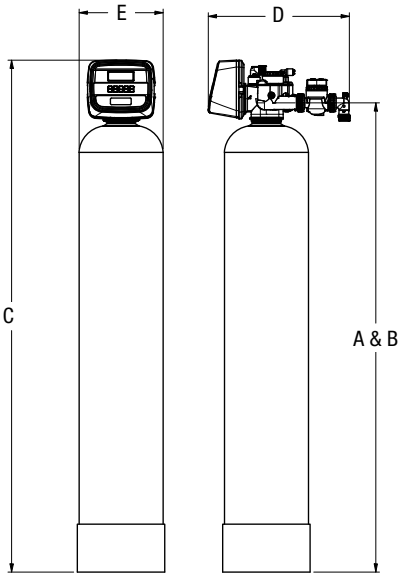
Call customer service if you need assistance with technical details.

MODEL NO.	DIMENSIONS										WEIGHTS	
	A		B		C		D		E			
	in.	*mm*	*in.*	*mm*	*in.*	*mm*	*in.*	*mm*	*in.*	*mm*	*lb*	*kg*
NM09-L10F	50 1/2	1283	50 1/2	1283	55 1/2	1410	16 1/4	413	9 1/2	241	110	50
NM10-L10F	56 1/2	1435	56 1/2	1435	61 3/4	1568	16 1/4	413	10 1/2	267	140	64
NM12-L10F	55	1397	55	1397	60	1524	16 1/4	413	12 1/2	318	200	91
NM14-L10F	67	1702	67	1702	72 1/4	1835	17 1/2	445	14 3/4	375	310	141

Series AMZL-125

MODEL NO.	DIMENSIONS										WEIGHTS	
	A		B		C		D		E			
	in.	*mm*	*in.*	*mm*	*in.*	*mm*	*in.*	*mm*	*in.*	*mm*	*lb*	*kg*
N5245-09-L125	50 1/2	1283	50 1/2	1283	55 1/2	1410	16 1/4	413	9 1/2	241	110	50
N5245-10-L125	56 1/2	1435	56 1/2	1435	61 3/4	1568	16 1/4	413	10 1/2	267	140	64
N5245-12-L125	55	1397	55	1397	60	1524	16 1/4	413	12 1/2	318	200	91

Series AMZL-100 & AMZL-125



Specifications & 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.)
NM09-L10F	68112324	9x48	1	1	5/9	5.3	12" x 10" x 56"	110
NM10-L10F	68112325	10x54	1	1.5	7/10	7.5	12" x 11" x 62"	140
NM12-L10F	68112326	12x52	1	2	9/15	10	13" x 13" x 60"	200
NM14-L10F	68112327	14x65	1	3	13/21	15	15" x 15" x 71"	310
N5245-09-L125	68112349	9x48	1 1/4	1	5/9	5.3	12" x 10" x 56"	110
N5245-10-L125	68112350	10x54	1 1/4	1.5	7/10	7.5	12" x 11" x 62"	140
N5245-12-L125	68112351	12x52	1 1/4	2	9/15	10	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 intermittent 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.

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