

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

Connection Sizes: 1" & 1 1/4"

Flow Rates: Up to 13 gpm (49 lpm)

Watts Locksmith Series AMZL Micro Z filtration systems are highly effective backwashing media filtration systems for the removal of sediment and suspended solids from water.

The Locksmith controller is a Watts exclusive, highly functional control board that operates 1" and 1.25" single, duplex alternating and multi tank progressive flow softeners and filtration systems without the need of an additional controller, with the ability to operate external devices for highly configurable systems to suit the needs of a wide variety of application requirements.

These systems are designed for residential applications with flow rates up to 13 gpm (49 lpm) with media bed sizes ranging from 1 to 3 cubic feet in size. If higher flow rates are required, multiple units can be installed in parallel. The media bed is cleaned of captured sediment by periodic backwashing and flushing. This cleaning cycle is time clock demand initiated and can be programmed to occur at any time that is convenient for the user. All steps of the cleaning cycle as well as returning to service are fully automatic and do not require manual actuation.

Series AMZL sediment filtration systems are designed for point of use or point of entry applications where filtered water is required. 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 3-5 micron nominal particle size removal rating versus 15-30 micron with other conventional back-washable medias.

Municipal water filtration, reverse osmosis pretreatment, micro and ultra filtration system pretreatment, cartridge filtration pretreatment, sediment reduction in city and rural water, as well as general turbidity reduction are all common applications for the Series AMZL Micro Z filter systems.

Filtered water is a cleaner supply water for boilers, solenoid valves, pumps, faucets aerator screens, reverse osmosis systems, micro and ultra filtration systems, pools, aquariums, washing, and rinsing processes that reduces down time and costly repairs.



AMZL-100 & AMZL-125

Features

- 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.
- Sophisticated digital electronic controls that store operating history that can be accessed by the user
- Watts Locksmith™ proprietary electronic controller allows user friendly programmable function for application specific required control
- Fully adjustable backwash and flush cycles
- Dry contact lock out switch for remote interface is standard
- Highly corrosion resistant fiberglass tanks
- Durable polypropylene lower distribution system

⚠ 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.

Specification

A Watts Locksmith™ Series AMZL Micro Z™ filtration system shall be installed on the building's main water line just after it enters the building. The installation point shall be after any backflow prevention or pressure regulating valves. Other installation options are to install a system just before the plumbing equipment needing the protection of filtered water. In installations where the dedicated cold water make up to a water heater is the installation point, a backflow preventer and a thermal expansion tank must be installed as well. The system shall be installed with a bypass valve to allow for the shut down and removal of the unit without interrupting the water supply to the building. The filtration system shall be a backwashing granular media bed type with digital programmable time clock initiated backwash, high-capacity alumino-silicate filter media rated for 3-5 nominal particle size removal, and all components necessary for proper operation. Electrical requirements are 120 volt 60 hertz. A local drain is required to accept drain water from the system. The feed water pressure must not fall below 30 psi (207 kPa) or exceed 125 psi (8.7 bar). Water temperature must not fall below 34°F or exceed 110°F (1 - 43°C). The system shall provide water that has been filtered to a nominal micron rating of 3-5 micron.

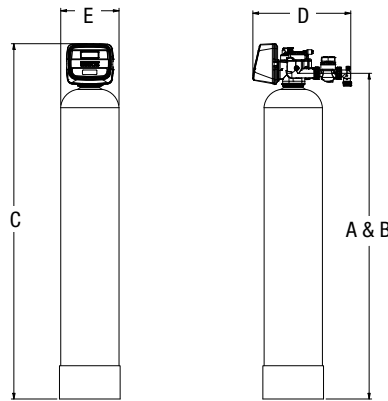
Feed Water Guidelines

pH	6 to 8.5
Water Pressure	30 psi to 125 psi (207 kPa to 8.7 bar)
Temperature	34 - 110°F (1 - 43°C)
Oil and H2S	None Allowed

*For all other guideline information please contact your Watts representative.

Dimensions & Weights

Series AMZL-100 & AMZL-125



Series AMZL-100

Call customer service if you need assistance with technical details.

MODEL NO.	DIMENSIONS										WEIGHTS	
	A		B		C		D		E		lb	kg
	<i>in.</i>	<i>mm</i>	<i>in.</i>	<i>mm</i>	<i>in.</i>	<i>mm</i>	<i>in.</i>	<i>mm</i>	<i>in.</i>	<i>mm</i>		
NM09-L10F	50 1/2	1283	50 1/2	1283	55 1/2	1410	11 3/4	298	9 1/2	241	110	50
NM10-L10F	56 1/2	1435	56 1/2	1435	61 3/4	1568	12 1/4	311	10 1/2	267	140	64
NM12-L10F	55	1397	55	1397	60	1524	13 1/4	337	12 1/2	318	200	91
NM14-L10F	66	1676	66	1676	71	1803	14 1/2	368	14 3/4	375	310	141

Series AMZL-125

MODEL NO.	DIMENSIONS										WEIGHT	
	A		B		C		D		E		lb	kg
	<i>in.</i>	<i>mm</i>	<i>in.</i>	<i>mm</i>	<i>in.</i>	<i>mm</i>	<i>in.</i>	<i>mm</i>	<i>in.</i>	<i>mm</i>		
N5245-09-L125	50 1/2	1283	50 1/2	1283	55 1/2	1410	11 3/4	298	9 1/2	241	118	54
N5245-10-L125	56 1/2	1435	56 1/2	1435	61 3/4	1568	12 1/4	311	10 1/2	267	147	67
N5245-12-L125	55	1397	55	1397	60	1524	13 1/4	337	12 1/2	318	173	78

Specification and Ordering Information

MODEL NO.	ORDERING CODE	TANK SIZE	MEDIA (CU FT)	PEAK SERVICE FLOW (GPM)	BACKWASH (GPM)	FLOOR SPACE (DXWXH)	SHIP WT. (LBS.)
NM09-L10F	68112324	9x48	1	5/9	5.3	12" x 10" x 56"	110
NM10-L10F	68112325	10x54	1.5	7/10	7.5	12" x 11" x 62"	140
NM12-L10F	68112326	12x52	2	9/15	9	13" x 13" x 60"	200
NM14-L10F	68112327	14x65	3	13/21	17	15" x 15" x 71"	310
N5245-09-L125	68112349	9x48	1	7	5.3	12" x 10" x 56"	110
N5245-10-L125	68112350	10x54	1.5	9	7.5	12" x 11" x 62"	140
N5245-12-L125	68112351	12x52	2	13	10	13" x 13" x 60"	167

NOTICE

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.

