Engineering Specification

Job Name _____ Contractor _____

Job Location _____ Approval _____

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

Approval _____ Representative _____

Series PWDML

Locksmith® Residential Dual Media Water Softener and Filtration System

Connection Size: 1"

Flow Rates: Up to 20 gpm (76 lpm)

Watts Pure Water Locksmith® PWDML Series Dual Media system is designed for residential applications where the benefits of softened and treated water are required. This system has a maximum 45,000 grains of hardness removal capacity and a peak flow rate up to 20 gpm. This system exchanges scale forming calcium and magnesium ions with non-scale forming sodium ions to create soft water for a variety of applications. The PWDML system also contains Granular Activated Carbon (GAC), which reduces chlorine taste, odors in addition to preserving the life of the water softening resin.

The Locksmith controller is a Watts exclusive, highly functional control board with the ability to operate external devices for highly configurable systems to suit the needs of a wide variety of residential application requirements.

Features

- GAC and Resin are in separate chambers, reducing media replacement costs
- Locksmith Controller offering improved functionality of a basic softener
- Mineral Tank Dome Hole for easy access to replace GAC media
- Control valve can predict daily water usage and regenerates only when necessary, saving salt and water
- Highly corrosion resistant fiberglass tank
- Full flow by-pass included



Series PWDML

⚠ 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.

PWDML Benefits

- Complete whole house water softening and filtration system
- Space saving design combines two technologies into one tank which also reduces cost
- GAC media corrects wide range of water quality issues by reducing chlorine tastes, odors, organic chemicals and sediment
- Softened water provides a wide variety of benefits including preventing scale build up, longer appliance lifespans, reduced energy usage, cleaner dishes/fixtures, increased soap efficiency, and improved skin and hair health
- Engineered and tested to perform, one of the most reliable valve platforms in the industry

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.

Specification

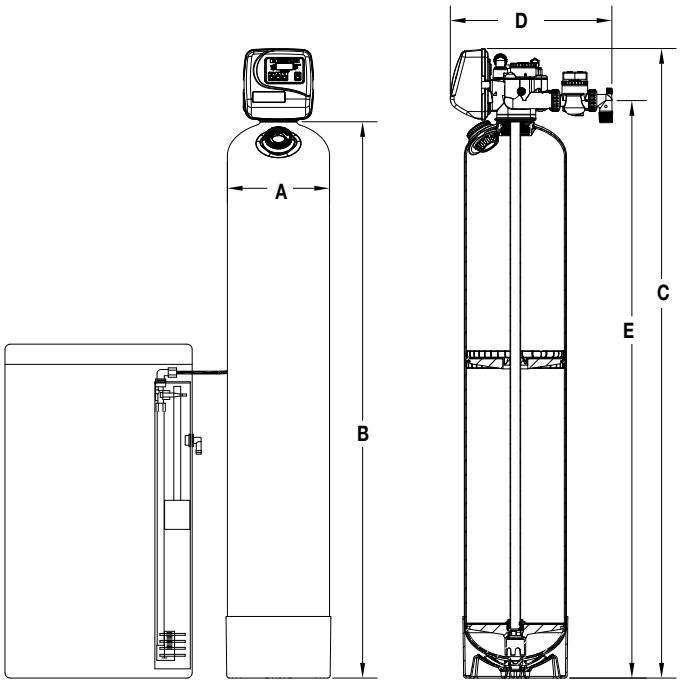
Call customer service (800-659-8400) if you need assistance with technical details.

SPECIFICATION	PWDML545
Max/Min Ion Exchange Capacity	45,000/30,000
Lbs of salt required for Max/Min capacity	22.5/9
Drain Line Connection Size	3/4" NPT
Inlet/Outlet Pipe Size	1"
Electrical Requirements	120v60Hz
Floor space required in inches D X W X H	19" x 32" x 61"
Approximate Shipping Weight Lbs	190

Feed Water Guidelines

PARAMETER	MIN / MAX
pH	6 to 10
Hardness (maximum)	Depends on customer's acceptable hardness leakage level.
Water Pressure	25psi to 125psi (172 kPa to 8.6 bar)
Temperature	40 - 110°F (5 - 43°C)
Free Chlorine (maximum)	4 mg/L
Iron (maximum)	1 mg/L
Oil and H2S	None Allowed
Turbidity	Less than 5.0 NTU
Total Dissolved Solids	Must be below 750mg/l for the softener to produce less than 1 grain per gallon soft water.

For all other guideline information please contact your Watts Representative.



Front View Side View

Dimensions

MODEL NO.	MINERAL TANK		INLET		OUTLET		OVERALL HEIGHT		OVERALL DEPTH		BRINE TANK	
	(A & B)		E		E		C		D			
	in.	*mm*	*in.*	*mm*	*in.*	*mm*	*in.*	*mm*	*in.*	*mm*	*in.*	*mm*
PWDML545	12 x 52	305 x 1321	55	1397	55	1397	60	1524	16	406	18 x 36	457 x 914

Specifications

MODEL NO.	ORDERING CODE	CAPACITY (MAX.)	PIPE SIZE (IN.)	MINERAL TANK			BRINE TANK		FLOW RATE & PRESSURE		
				TANK SIZE	RESIN FT3	GAC FT3	TANK SIZE	SALT FILL (LBS.)	SERVICE (GPM)	DROP (PSI)	BKW (GPM)
PWDML545	7101313	45,000	1	12x52	1.5	0.5	18x36	350	15-20	15-25	2.7

Ordering Information

MODEL NO.	ORDERING CODE	DESCRIPTION
PWDML545	7101313	Dual Media Residential Water Softener and Filtration System

NOTICE

Flow rates listed above are based on pressure drop only. Selecting a system based on pressure drop alone does not guarantee that the system will provide adequately softened water. System selection should be based on resin quantity, capacity required, feed water analysis, and application requirements.

NOTICE

Capacities are based on resin manufacturer's data and are dependent upon influent water TDS, temperature, bed depth, and flow rates. Feed water must be free of oil and color. Pipe size, tank size, and space requirements are in inches. Capacities and flow rates expressed above are per tank. Flow rates listed at 25 psi drops are for intermittent peak flow rates and are not to be used as continuous flows.

USA: T: (800) 659-8400 • Watts.com/PureWater
Canada: T: (905) 332-4090 • Watts.ca/PureWater
Latin America: T: (52) 55-4122-0138 • Watts.com/PureWater

© 2026 Watts