Engineering Specification

Job Name _____ Contractor _____

Job Location _____ Approval _____

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

Approval _____ Representative _____

Series CLS-DM

Locksmith® Residential Dual Media Water Softener and Filtration System

Connection Size: 1"

Flow Rates: Up to 16 gpm (60 lpm)

Watts Locksmith® CLS-DM Series Dual Media system is designed for residential applications where the benefits of softened and treated water are required. This system has a maximum 30,000 grains of hardness removal capacity and a peak flow rate up to 16 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 CLS-DM 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.



Series CLS-DM

Features

- GAC and Resin are in separate chambers, reducing media replacement costs
- Locksmith Controller offering improved functionality of a basic softener
- 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

⚠ 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.

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.

Operating Parameters

pH .....6 to 10

Hardness (maximum) .....Depends on customer's acceptable hardness leakage level

Free Chlorine (maximum) 4mg/L

Iron (maximum) 1mg/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

Water Pressure* .....25psi to 125psi (171 kPa to 8.6 bar)

Temperature .....40 - 110°F (4 - 43°C)

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

Maximum Humidity 75%

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

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

Power Supply Output Voltage.....15 VDC

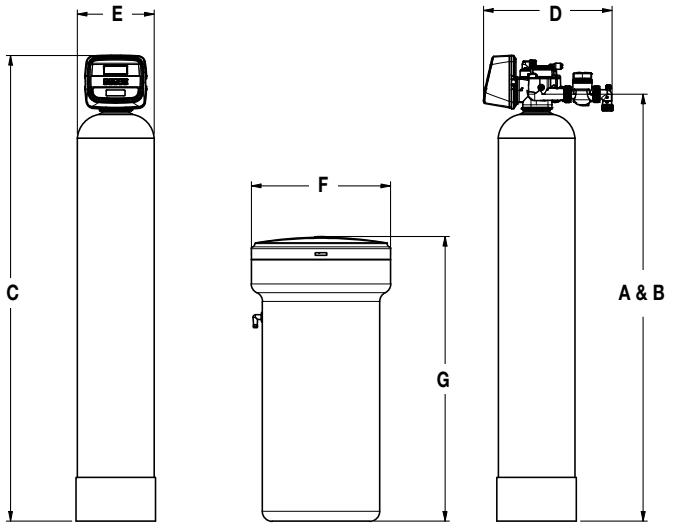
Power Supply Output Current.....500 mA (per control valve)

Maximum Altitude .....6562 feet above sea level

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

For all other guideline information please contact your Watts representative.

*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.



Front View Side View

Call customer service if you need assistance with technical details.

Dimensions

MODEL NO.	DIMENSIONS														WEIGHTS	
	A		B		C		D		E		F		G			
	in.	*mm*	*in.*	*mm*	*in.*	*mm*	*in.*	*mm*	*in.*	*mm*	*in.*	*mm*	*in.*	*mm*	*lb*	*kg*
M3011-L10SM-CR-CMP	57 1/4	1454	57 1/4	1454	62 1/2	1588	16	406	10 1/2	267	18 1/2	470	37 1/2	953	110	50

Specifications & Ordering Information

MODEL NO.	ORDERING CODE	CAPACITY (MAX.)	PIPE SIZE (IN.)	MINERAL TANK			BRINE TANK		FLOW RATE & PRESSURE			SHIP WT. (LBS.)
				TANK SIZE	RESIN FT3	GAC FT3	TANK SIZE	SALT FILL (LBS.)	SERVICE (GPM)	DROP (PSI)	BKW (GPM)	
M3011-L10SM-CR-CMP	68112308	30,000	1	10x54	1	0.5	18x36	350	12-16	15-25	2.2	110

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.

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