Engineering Specification

Job Name _____ Contractor _____

Job Location _____ Approval _____

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

Approval _____ Representative _____

Series CAL-100

Locksmith® Residential Acidic Water Neutralizing Systems

Connection Sizes: 1"

Flow Rates: Up to 8.5 gpm (32.18 lpm)

Watts Locksmith® Series CAL acid neutralizing systems are designed for residential point-of-entry applications to reduce corrosion in plumbing systems by neutralizing acidic water.

These systems use the exclusive Watts Locksmith® controller, a single integrated control board capable to support external device operation, enabling flexible system configurations to meet a wide range of application needs.

CAL systems support intermittent residential flow rates up to 21 gpm (79 lpm) with media bed sizes ranging from 1 to 4 cubic feet. Higher flow requirements can be met by installing multiple units in parallel. The media bed is automatically cleaned through a programmable, time-initiated backwash and flush cycle that operates without manual intervention.

Designed for water supplies with a pH below 7, these systems use a combination of Flomag media (magnesium oxide) and high-quality granular calcite (calcium carbonate) media to raise pH levels. As acidic water passes through the media bed, the calcite dissolves, increasing the water's pH to a neutral range. Periodic replenishment of calcite media is required as part of normal system maintenance.



CAL-100

⚠ 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.

Features and Benefits

- Locksmith Controller offering Improved functionality
- Increases the pH of acidic water to a neutral level
- Reduces the corrosion of plumbing and fixtures caused by low pH water
- No more "green stain" copper deposits in tubs, toilets, and sinks
- Better tasting pH balanced water
- User-friendly equipment
- Low maintenance due to automatic operation

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

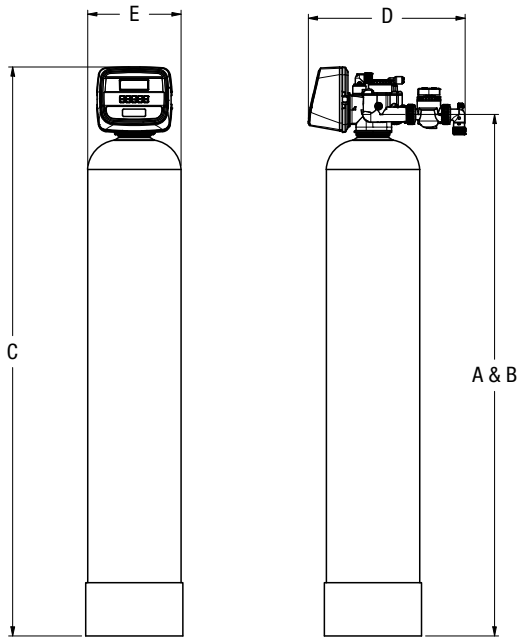
Water Pressure*	30 psi to 125 psi (205 kPa to 8.5 bar)
Temperature	34 - 110°F (1 - 43°C)
Operating Ambient Temperature	34° to 120°F (1° to 52°C)
Power Supply Input Voltage	100-120 VAC
Power Supply Input Frequency	50/60 Hz
Power Supply Output Voltage	15 VDC
Power Supply Output Current	500 mA (per control 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.

Series CAL-100



Front View Side View

Dimensions - Weights

Series CAL-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*
NN09-L10F	50 1/2	1283	50 1/2	1283	55 ½	1410	16 1/4	413	9 1/2	241	100	45
NN10-L10F	56 1/2	1435	56 1/2	1435	61 3/4	1568	16 1/4	413	10 1/2	267	183	83
NN12-L10F	55	1397	55	1397	60	1524	16 1/4	413	12 1/2	318	256	116
NN14-L10F	67	1702	67	1702	72 1/4	1835	17 1/2	445	14 3/4	375	387	176
NN16-L10F	68 1/4	1734	68 1/4	1734	73 1/2	1867	18 1/2	470	16 3/4	425	516	234

Specifications & Ordering Information

MODEL NO.	ORDERING CODE	TANK SIZE	PIPE SIZE	CALCITE MEDIA (CU FT)	FLOMAG MEDIA (CU FT)	SERVICE FLOW (GPM)	PEAK SERVICE FLOW (GPM)	BACKWASH (GPM)	FLOOR SPACE (DXWXH)	SHIP WT. (LBS.)
NN09-L10F	68112328	9x48	1	0.5	0.5	2.5	6.5	4.2	17.5" x 11" x 56"	100
NN10-L10F	68112329	10x54	1	0.625	0.625	3.5	8	5.3	17.5" x 12" x 62"	183
NN12-L10F	68112330	12x52	1	1	1	5	12	9	17.5" x 14" x 60"	256
NN14-L10F	68112331	14x65	1	1.5	1.5	6.5	16	10	17.5" x 16" x 74"	387
NN16-L10F	68112332	16x65	1	2	2	8.5	21	15	17.5" x 18" x 74"	516

NOTICE

*Peak service flow rate is 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 service flow rates are based on a 15 psi drop. Optimum service flow rate is specific to water chemistry and will vary.

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