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Jim Doyle, Governor  
Cory L. Nettles, Secretary

January 14, 2005

MARLO INCORPORATED  
MIKE TOMPKINS  
2227 SOUTH ST.  
PO BOX 044170  
RACINE WI 53404-7003

Re: Description: WATER TREATMENT DEVICE- SOFTENER  
Manufacturer: MARLO INCORPORATED  
Product Name: "C" SERIES WATER SOFTENERS  
Model Number(s): CTC-22-K, CTC-30-K, CTC-40-K, CTC-45-K, CTC-60-K, CTC-22-KC, CTC-30-K,  
C22-2-STD, C30-2-STD, C40-2-STD, C45-2-STD, C60-2-STD, C22-C-STD,  
C30-C-STD, CMP-22-K, CMP-30-K, CMP-40-K, CMP-45-K, CMP-60-K,  
CMP-22-KC, CMP-30-KC  
Product File No: 20040523

The specifications and/or plans for this plumbing product have been reviewed and determined to be in compliance with chapters Comm 82 through 84, Wisconsin Administrative Code, and Chapters 145 and 160, Wisconsin Statutes.

The Department hereby issues an approval based on the Wisconsin Statutes and the Wisconsin Administrative Code. This approval is valid until the end of January 2010.

This approval is contingent upon compliance with the following stipulation(s):

- This product has undergone sufficient testing to document the product's ability to reduce only those contaminants and/or substances as specified in this approval letter when the product is installed and maintained in strict accordance with the manufacturers published instructions.
- For buildings not served by a municipal water supply, Department of Natural Resources (DNR) written approval may be required prior to installation of this product in a water supply system to reduce the concentration of a contaminant that exceeds the primary drinking water standards contained in ch. NR 809, Wis. Admin. Code, the enforcement standards contained in ch. NR 140, Wis. Admin. Code, or for a water supply system that is subject to a written advisory opinion by the DNR. For more information contact the DNR Section of Private Water Systems, P.O. Box 7921, Madison, WI 53707, telephone (608) 266-3415.
- If these approved devices are modified or additional assertions of function or performance are made, then this approval shall be considered null and void, unless the change is submitted to the department for review and the approval is reaffirmed.
- These cation exchange water softeners shall be sized, installed, programmed and maintained such that wastewater, total dissolved solids and chloride discharges are minimized.

Based on testing data submitted to and reviewed by the department, this approval recognizes that these plumbing products will reduce the concentration of contaminants as specified on pages 1 through 2 of this letter.

**WATER SOFTENING CAPABILITIES**  
**PRODUCT FILE NUMBER 20040523**  
**TABLE 1 OF 1**

Model Numbers C-, CMP-, and CTC-Series	Capacity*						Flow Rate gpm @ psig
	Rating 1		Rating 2		Rating 3		
Demand Initiated or Time Clock*	Grains	Pounds	Grains	Pounds	Grains	Pounds	
CTC-22-K, CTC-22-KC	14,514	4.0	19,509	8.0	22,836	11.3	16.0 @ 15.0
C22-2-STD, C22-C-STD	14,514	4.0	19,509	8.0	22,836	11.3	16.0 @ 15.0
CMP-22-K, CMP-22-KC	14,514	4.0	19,509	8.0	22,836	11.3	16.0 @ 15.0
CTC-30-K, CTC-30-KC	19,352	5.0	26,012	10.0	30,448	15.0	15.0 @ 15.0
C30-2-STD, C30-C-STD	19,352	5.0	26,012	10.0	30,448	15.0	15.0 @ 15.0
CMP-30-K, CMP-30-KC	19,352	5.0	26,012	10.0	30,448	15.0	15.0 @ 15.0
CTC-40-K, C40-2-STD, CMP-40-K	24,190	6.0	32,515	13.0	38,060	18.8	16.0 @ 15.0
CTC-45-K, C45-2-STD, CMP-45-K	29,028	8.0	39,018	15.0	45,672	22.5	17.0 @ 15.0
CTC-60-K, C60-2-STD, CMP-60-K	38,704	10.0	52,024	20.0	60,896	30.0	20.0 @ 15.0

\* = can be used in either a demand initiated or time clock mode, however the Demand Initiated Regeneration mode should be used when doing so does not compromise long term performance (e.g. dissolved iron is present).

\* The softener capacity rating is based on grains of hardness, due to calcium and magnesium cations, removed (as calcium carbonate) while producing soft water between successive regenerations and is related to the pounds of salt required for each regeneration. The tests run to generate the data for table 1 of 1 were conducted in accordance with a Marlo Inc. internal testing protocol.

This device was tested under controlled laboratory, or field, conditions. The actual performance of this device for a specific end use installation will vary from the tested conditions based on local factors such as water pressure, water temperature and water chemistry.

The department is in no way endorsing this product or any advertising, and is not responsible for any situation that may result from its use.

Sincerely,



Glen W. Schlueter  
 Engineering Consultant-Plumbing Product Reviewer  
 Bureau of Integrated Services  
 Safety and Buildings Division  
 Department of Commerce  
 (608) 267-1401 Phone  
 (608) 267-9566 Fax  
 gschlueter@commerce.state.wi.us Email  
 8:00AM – 4:30PM CT Work Hours

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