



Scott McCallum, Governor  
Brenda J. Blanchard, Secretary

May 31, 2001

MARLO INCORPORATED  
MICHAEL GLINES  
2227 SOUTH STREET  
RACINE WI 53404-4070

RECEIVED JUN 07 2001

Re: Description: WATER TREATMENT DEVICE- SOFTENER  
Manufacturer: MARLO INCORPORATED  
Product Name: WATERMANN IMPACT SERIES  
Model Number(s): IMPACT-7, IMPACT-8, IMPACT-9, IMPACT-10, IMPACT-12, IMPACT-7C,  
IMPACT-8C AND IMPACT-9C  
Product File No: 20002108

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 May 2006.

This approval supercedes the approval issued on February 23, 1996 under product file number 950482.

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 this approved device is 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.

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 and table 1 of 1.

6/7/01

**WATER SOFTENING CAPABILITIES**  
**PRODUCT FILE NUMBER 20002108**  
**TABLE 1 OF 1**

Model Numbers		Capacity*						Flow Rate/
Impact Series		Rating 1		Rating 2		Rating 3		Pressure Drop
Impact	Impact C	Grains	Pounds	Grains	Pounds	Grains	Pounds	gpm@psig
Impact-7	Impact-7C	8,600	2.7	12,200	4.5	16,700	7.5	11.0@15.0
Impact-8	Impact-8C	13,000	4.1	18,300	6.8	25,700	11.3	11.5@15.0
Impact-9	Impact-9C	17,300	5.5	24,500	9.1	33,400	15.0	12.3@15.0
Impact-10	-	25,900	8.2	36,700	13.6	50,000	22.5	12.8@15.0
Impact-12	-	34,500	10.9	48,900	18.2	66,700	30.0	14.4@15.0

\* 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 were conducted in accordance with WQA Standard S-100.

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  
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