



Jim Doyle, Governor
Cory L. Nettles, Secretary

January 5, 2005

S & K PUMP & PLUMBING, INC.
JOHN SMITS AND GARY KUHN
20880 W. ENTERPRISE AVE.
BROOKFIELD WI 53005

Re: Description: WATER TREATMENT DEVICE- SOFTENER
Manufacturer: S & K PUMP & PLUMBING, INC.
Product Name: CRYSTAL CLEAR
Model Number(s): SK16R5M, SK24R5M, SK32R5M, SK40R5M, SK48R5M, SK64R5M, SK96R5M,
SK16R5M, SK24R5CC, SK32R5CC, SK40R5CC, SK48R5CC, SK64R5CC AND
SK96R5CC
Product File No: 20040463

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 supercedes the approval issued on February 1, 2000 under product file number 19990800.

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 20040463
 TABLE 1 OF 1**

Model Numbers		Capacity*						
Crystal Clear Series		Rating 1		Rating 2		Rating 3		Flow Rate
Time Clock	Demand Initiated	Grains	Pounds	Grains	Pounds	Grains	Pounds	gpm @ psig
-	SK16R5M	9,800	3.0	14,100	5.0	16,600	7.5	6.1 @ 7.4
SK16R5CC	-	9,800	3.0	14,100	5.0	16,600	7.5	6.1 @ 6.8
-	SK24R5M	14,700	4.5	21,200	7.5	24,900	11.3	8.4 @ 10.6
SK24R5CC	-	14,700	4.5	21,200	7.5	24,900	11.3	8.4 @ 9.7
-	SK32R5M	19,600	6.0	28,200	10.0	33,200	15.0	10.0 @ 12.2
SK32R5CC	-	19,600	6.0	28,200	10.0	33,200	15.0	10.0 @ 10.7
-	SK40R5M	24,500	7.5	35,300	12.5	41,500	18.8	11.0 @ 13.0
SK40R5CC	-	24,500	7.5	35,300	12.5	41,500	18.8	11.0 @ 11.5
-	SK48R5M	29,400	9.0	42,300	15.0	49,800	22.5	9.7 @ 11.5
SK48R5CC	-	29,400	9.0	42,300	15.0	49,800	22.5	9.7 @ 10.3
-	SK64R5M	39,200	12.0	56,400	20.0	66,400	30.0	12.0 @ 13.2
SK64R5CC	-	39,200	12.0	56,400	20.0	66,400	30.0	12.0 @ 11.6
-	SK96R5M	58,800	18.0	84,600	30.0	99,600	45.0	12.0 @ 11.9
SK96R5CC	-	58,800	18.0	84,600	30.0	99,600	45.0	12.0 @ 10.6

* 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 verify the data for table 1 of 1 were conducted in accordance with WQA standard S-100-85.

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
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