



February 8, 2012

REVISED COPY

HELLENBRAND INCORPORATED
JILL MCDONALD
404 MORAVIAN VALLEY ROAD
WAUNAKEE WI 53597

Re: Description: WATER TREATMENT DEVICE - POE SOFTENER
Manufacturer: HELLENBRAND INCORPORATED
Product Name: MET SERIES
Model Number(s): MET H100-24, MET H100-32, MET H100-32-10, MET H100-48, MET H100-64,
MET H100-96, MET H100-128, MET H100-160, MET PM6-024, MET PM6-032,
MET PM6-032-10, MET PM6-048, MET PM6-064, MET PM6-096,
MET PM6-128, MET PM6-160 AND MET PM6-192
Product File No: 20120023

The specifications and/or plans for this plumbing product have been reviewed and determined to be in compliance with chapters SPS 382 through 384, 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 February 2017.

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 manufacturer's published instructions.
- Where the Department of Natural Resources (DNR) has jurisdiction, a 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) 267-9787.
- 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 volumes, total dissolved solids and chloride discharges are minimized.
- At the time of installation, these devices shall be provided with an effective means to warn the users when they are not performing their function. This shall be accomplished by one of the following:
 1. sounding and alarm or flashing a light, each connected to an acceptable power source;
 2. providing a sampling kit for analysis of hardness or other appropriate contaminants; or
 3. providing a hardness monitor.

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 20120023
TABLE 1 OF 2

Model Numbers	Tested Capacities*								Flow Rate vs. pressure loss gpm @ psig
	Rating 1		Rating 2		Rating 3		Rating 4		
METERED	Grains	Pounds	Grains	Pounds	Grains	Pounds	Grains	Pounds	
MET H-100-24ED	17,200	4.5	19,980	6.0	21,040	7.5	24,230	11.3	9.8 @ 10.0
MET H-100-32ED	22,930	6.0	26,650	8.0	28,060	10.0	32,310	15.0	10.1 @ 10.0
MET H-100-32-10ED	22,930	6.0	26,650	8.0	28,060	10.0	32,310	15.0	11.3 @ 10.0
MET H-100-48ED	34,400	9.0	39,970	12.0	42,090	15.0	48,460	22.5	10.5 @ 10.0
MET H-100-64ED	45,870	12.0	53,300	16.0	56,120	20.0	64,620	30.0	14.2 @ 10.0
MET H-100-96ED	68,810	18.0	79,950	24.0	84,180	30.0	96,930	45.0	14.4 @ 10.0
MET H-100-128ED	91,750	24.0	106,600	32.0	112,240	40.0	129,240	60.0	15.1 @ 10.0
MET H-100-160ED	114,690	30.0	133,250	40.0	140,300	50.0	161,550	75.0	17.3 @ 10.0
MET PM6-024	17,200	4.5	19,980	6.0	21,040	7.5	24,230	11.3	9.8 @ 10.0
MET PM6-032	22,930	6.0	26,650	8.0	28,060	10.0	32,310	15.0	10.1 @ 10.0
MET PM6-032-10	22,930	6.0	26,650	8.0	28,060	10.0	32,310	15.0	10.1 @ 10.0
MET PM6-048	34,400	9.0	39,970	12.0	42,090	15.0	48,460	22.5	10.5 @ 10.0
MET PM6-064	45,870	12.0	53,300	16.0	56,120	20.0	64,620	30.0	14.2 @ 10.0
MET PM6-096	68,810	18.0	79,950	24.0	84,180	30.0	96,930	45.0	14.4 @ 10.0
MET PM6-128	91,750	24.0	106,600	32.0	112,240	40.0	129,240	60.0	15.1 @ 10.0
MET PM6-160	114,690	30.0	133,250	40.0	140,300	50.0	161,550	75.0	17.3 @ 10.0
MET PM6-192	137,620	36.0	159,900	48.0	168,360	60.0	193,860	90.0	17.8 @ 10.0

* 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 NSF Standard 44.

HEALTH EFFECTING CONTAMINANT REDUCTION CAPABILITIES
PRODUCT FILE NUMBER 20120023
TABLE 2 OF 2

Contaminant	Influent (mg/l) [*]	Effluent (mg/l) [*]
Barium (Ba ⁺²)	10.0	≤ 2.0
Radium (²²⁶ Ra + ²²⁸ Ra)	25 pCi/l	≤ 5 pCi/l
Strontium (⁸⁴ Sr, ⁸⁶ Sr, ⁸⁷ Sr and ⁸⁸ Sr) [‡]	20.0	≤ 4.0

Other conditions: the contaminant reduction capabilities for table 2 of 2 are dependent upon the effluent hardness concentration being held to ≤ 1.0 grain per gallon (gpg) [17.1 mg/l].

1 = milligrams per liter (mg/l) are equivalent to parts per million (ppm)
 * = unless otherwise specified
 pCi/l = picocuries per liter

‡ = stable strontium
 ≤ = less than or equal to

Hellenbrand Incorporated
February 8, 2012
Page 3 of 3
Product File No.: 20120023

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 which may result from its use.

Sincerely,

Glen W. Schluter
Engineering Consultant
Safety and Buildings Division
Department of Safety and Professional Services
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GWS:gws