



December 18, 2007

CLACK CORPORATION
LORETTA TRAPP
4462 DURAFORM LANE
WINDSOR WI 53598-9716

WATER QUALITY ASSOC. OF WISCONSIN
CURRENT PRESIDENT
ONE S. PINCKNEY ST., STE. 504
PO BOX 4845
MADISON WI 53703

Re: Description: WATER TREATMENT DEVICE SIZING METHOD, ALTERNATE PLUMBING SYSTEM
Manufacturer: WATER QUALITY ASSOCIATION OF WISCONSIN
Product Name: SYSTEM, ALTERNATE PLUMBING, WATER TREATMENT DEVICE SIZING
METHODOLOGY
Model Number(s): NONE
Product File No: 20070482

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 alternate approval to s. Comm 82.40 (6) based on the Wisconsin Statutes and the Wisconsin Administrative Code. This approval is valid until the end of December 2012.

This approval supersedes the approval issued on August 6, 2002 under product file number 20020250.

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

- The flow through the water treatment device is determined using Table 1 of this approval to calculate the rated pressure loss through water treatment devices to be used within the water calculation worksheet [i.e. SBD-6479 (R. 8/02)] on line "F" (i.e. pressure loss due to a water treatment devices, etc...) which is included in the equation to calculate an "A" value (pressure available for uniform loss).
- Table 1 of this approval may be used for sizing water treatment devices up to a maximum water supply fixture unit (WSFU) value of 40. Table 1 is not required to be used when sizing small water treatment devices serving one or two fixtures.
- The maximum rated service flow rate(s) of a water treatment device, or multiple water treatment devices, installed in parallel shall be greater than or equal to the flow rate derived by using this Table 1 of 1 of this approval.
- This approval may only be used when sizing a water treatment device(s) serving an individual dwelling.
- The flow rate derived using this approval shall not be less than the minimum flow rate or flow rate that corresponds to a pressure required by the fixture manufacturer of any fixture served by the water treatment device.
- A water treatment device serving hose bibbs or hydrants shall be sized in accordance with "a" through "c":
 - a. Water supply fixture unit values of hose bibbs and hydrants being served shall be converted to gallons per minute using Table 82.40-3.
 - b. Water supply fixture units of other fixtures being served shall be converted to gallons per minute using the Table 1 contained within this approval letter.
 - c. The sum of the gallons per minute flow rates determined in "a" and "b" is considered the flow rate through the water treatment device.

**TABLE 1 OF 1
CONVERSION OF WATER SUPPLY FIXTURE UNITS TO GALLONS PER MINUTE FOR WATER
TREATMENT DEVICES SERVING AN INDIVIDUAL DWELLING**

Water Supply Fixture Units (WSFUs)	Gallons Per Minute (GPM)
1	1
2	2
3	3
4	4
5	4.5
6	5
7	6
8	6.5
25	7
35	8
40	9

The department is in no way endorsing this methodology or any related advertising, and is not responsible for any situation which 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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GWS:gws