



August 13, 2012

REVISED COPY

AQUACHEM, INC
BOB KOO
4040 KIDRON RD STE 5
LAKELAND FL 33811

Re: Description: REUSE SYSTEM - GRAYWATER
Manufacturer: AQUACHEM, INC
Product Name: AQUACHEM WATER RECOVERY UNIT
Model Number(s): AC 40, AC 90, AC 200 AND AC 300
Product File No: 20120259

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 August 2017.

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

- The concentration (C) in mg/l multiplied by time (T) in minutes = the CT value for the ozonation process. These CT values vary with the temperature of the water to be treated and the minimum required CT values are as follows:

Temperature (F)	34	41	50	59	68	77+
Ozone CT Value	2.9	1.9	1.4	0.95	0.72	0.48

CT values between the indicated temperature may be determined by linear interpolation. If no interpolation is used, then use the CT value at the lower temperature for determining the CT value between indicated temperatures.

- The pressure loss for any single mechanical filtration device shall not exceed 15 psig over and above the pressure loss of the mechanical filtration device when initially backwashed and settled. If the pressure loss exceeds 15 psig, then the mechanical filtration devices must be backwashed, serviced or replaced.

Each individual pressure vessel installed in series or parallel is considered a separate and distinct mechanical filtration device.

- The final effluent, collected from at or near the suction basket of the final interceptor/separator/sump, shall be sampled semiannually for the following water quality parameters:

1. pH;
2. 5-Day biological oxygen demand (BOD5);
3. total suspended Solids (TSS);
4. fecal coliform

The results of these semiannual test shall be submitted as directed by the reviewer of the site specific plan.

- The AC 40, AC 90, AC 200 and AC 300 devices must each have a conspicuous label, which is visible after installation, which displays the model number of the respective device.
- This system approval includes the consideration of the AC 40, AC 90, AC 200 and AC300 skid mounted treatment units (including the mechanical filtration devices, the particle separators and ozone generators).

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. Schlueter
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