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Modifying a FAST® (or ABC) Treatment Module for Use in a Shallow Tank

This modification allows you to install a FAST treatment module (sizes 0.5, 0.625, 0.75, 0.9, 1.0, 1.5 and 3.0) or an ABC (Anoxic Biofilter Clarifier) module entirely inside a “low-profile” tank that is generally used in high bed rock or high ground water situations. When performed properly, this modification will not affect the performance ability of the treatment unit. If you have any questions, please call Bio-Microbics at 800-753-FAST (3278).

Conditions:

1. Once this modification is made it is NOT reversible. DO NOT perform this procedure, and then attempt to put the treatment liner back together so that it can hang from the tank lid.
2. This method is only to be used when mounting a treatment unit entirely inside a tank.
3. When using this option, the top four and one half (4 ½) inches of the treatment liner must be cut away and then re-fastened to the liner for support.
4. For the 0.5, 0.625, 0.75, 0.9 and 1.0 systems, the maximum total distance that the treatment liner can be reduced is 9 inches. For the 1.5 and 3.0 modules the maximum distance is seven (7) inches. This reduction in height can only be made above the water line.
5. The treatment liner is NOT designed to be a load bearing member for the tank.
6. All other installation instructions pertaining to mounting the treatment unit entirely inside a tank are to be used.
7. The minimum clearance underneath the treatment unit must be maintained.
8. This modification can NOT be made to the 4.5 and 9.0 models.

The following procedure allows you to cut away some “free space” that exists in the treatment liner. Carefully complete the steps below.

⚠ WARNING Use all appropriate safety equipment and follow all recommended procedures as defined by the manufacturer of the cutting device being employed. Be sure to perform work on a stable surface. Secure FAST unit in place before beginning work.

1. On the outside of the treatment liner, measure from the underside of the treatment liner lip down four and one half (4 ½) inches. Mark your cutting location with a grease pencil or similar instrument.

2. Measure and mark your cutting location several times at different locations on the outside of the liner.
3. Draw a straight line connecting all the marks you have made on the outside of the liner.
4. Before cutting, make sure to double check your measurements and markings, because once you cut, there is no going back.
5. Using a reciprocating saw, coping saw, chain saw or other appropriate device, cut along your pre-marked straight line on the outside of the treatment liner. You should not cut any other part besides the treatment liner and inner effluent baffle plate. (A de-burring tool should be used to trace the cut edges to insure they are not sharp.)
6. Save this top 4 ½ inch portion (including the lip) for use later.
7. Repeat steps 1 through 5 again, except this time you will measure from the new top edge down to the total height you would like to remove from the treatment liner. For the 0.5, 0.75, 0.9 and 1.0 systems the maximum allowed additional distance is 4 ½ additional inches. For the 1.5 and 3.0 modules the maximum distance is three (3) additional inches.
8. Now that you have cut down the treatment liner to the desired height, you will need to reattach the top four and one half (4 ½) inch portion. Slide this 4 ½ inch piece so that the top of the lip is even with the newly cut top edge of the liner. The 4 ½ inch piece may be just long enough that you do have to trim it to fit around the treatment liner's effluent hole or gasket.
9. Using 12 – 30 stainless steel self tapping screws (about ½" long), screw the 4 inch top piece into place. The screws should be put in from the outside of the liner to the inside to ensure that all exposed surfaces are free from rough or sharp edges that may cause injury to persons using, installing, maintaining or servicing the system.
10. Complete the installation of the unit per instruction manual directions. DO NOT allow the lid of the tank to rest on (compress) the treatment liner at all.

If you have any questions before performing this procedure, call 800-753-FAST (3278).