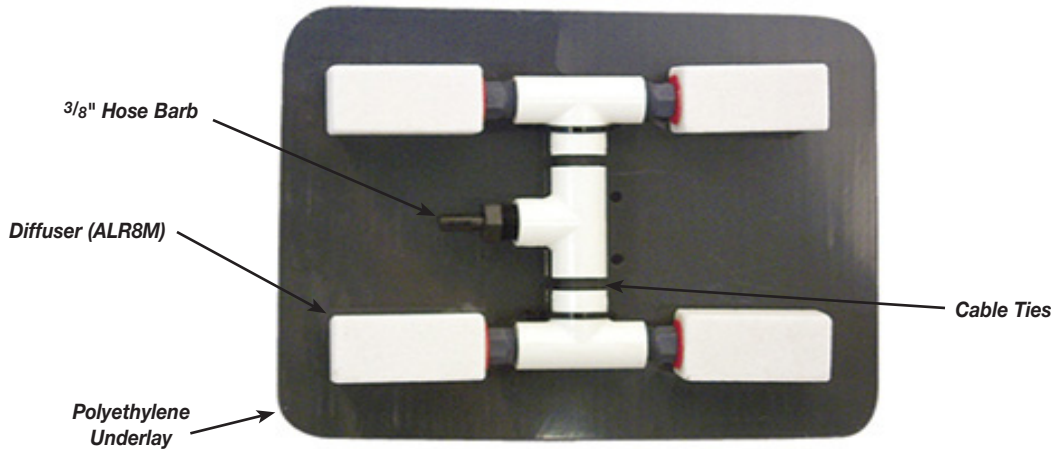


Diffuser Manifold

(Part No. ALP4)



The diffusers included as part of the **ALP4** assembly are made of glass-bonded silica, are virtually indestructible and will give many years of service. The diffuser manifold comes with a polyethylene underlay to prevent the disturbance of sediments. The manifold is attached to the underlay with two polyethylene cable ties (included).

Assembly Instructions

1. Remove all items from the package to make sure you have the following:
 - One (1) PVC Diffuser Manifold with 3/8" Barb Adapter
 - Four (4) Sweetwater® Glass-Bonded Silica Diffusers (**ALR8M**)
 - One (1) Polyethylene Underlay
 - Two (2) 11 1/2" Plastic Cable Ties
2. Completely submerge the four diffusers in water. Take them out and hold them upside down to let any residue from the manufacturing process drain out. Repeat until the water leaving the diffusers is clear.
3. Screw the four diffusers into the manifold finger tight—DO NOT OVERTIGHTEN.
4. Place the manifold with the diffusers in the center of the polyethylene underlay.
5. Use the two cable ties to secure the manifold to the underlay. Cut off excess tie.
6. The ALP4 assembly can then be connected to the air line tubing and lowered into the water.

Maintenance of Air Diffusers

The only maintenance normally required for Sweetwater® air diffusers is periodic cleaning. The frequency of cleaning will be determined by the mineral and organic content of the water in which the air diffusers are used. In clean, cold, soft water, cleaning may only be necessary every 2 or 3 years. In very hard water or water high in organics, it could be necessary as often as every 2 months.

1. Remove from service and blow out excess water. If fouled with barnacles or other gross foreign material, scrape or hose off.
2. If you have a 1/2" NPT white fitting on the end of your diffuser, then immerse the diffuser portion, not the fitting, in undiluted muriatic acid for a sufficient time to dissolve the clogging material. This may take from one minute to eight hours in the most extreme cases. Be very careful when using acid! Wear eye, face and hand protection and have clean water available for rinsing and acid diluting in the case of an acid splash or spill.
3. After the clogging material has been dissolved, rinse thoroughly before reuse.
4. Discard the used acid after reducing its strength to a neutral pH by diluting with at least ten times as much water as acid. Add acid to water; never add water to acid.



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