



# 4-Diffuser Manifold

(Part No. ALA4GLB)

## Assembly Instructions

1. Completely submerge the 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.
2. In the base for the manifold underlay, fill the recessed areas with pea gravel (or other weighted materials like crushed brick or small stones) up to the first line.
3. Place the polyethylene underlay on top of the base.
4. Insert 3/4" screws with flat washer into each of the 2 holes located on the outside of the underlay assembly. Secure each screw with a flat washer and locknut.
5. Insert 1" screws through each of the plastic 3/4" pipe hanger clamps and then into predrilled holes running down the center of the underlay assembly. Secure the screws with a flat washer and locknut.
6. Screw each of the glass-bonded silica diffuser stones into the black PVC manifold with finger-tight torque. Do not over-tighten.
7. Press down on the diffuser manifold as it rests on top of the clamps and lock the clamps into place. Refer to the exploded view for proper orientation.

## Maintenance of Air Diffusers

The diffusers included in this assembly are made of glass-bonded silica, are **virtually indestructible** and will give many years of service. The only maintenance normally required for these 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. Remember: **ALL** diffusers require some maintenance.

1. Remove from service and blow out excess water. If fouled with barnacles or other gross foreign material, scrape or hose off.
2. Immerse the diffuser portion 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.)

ITEM	ZONE	VENDOR	PART #	QTY	DESCRIPTION	SUB ASSY	NOTES
1		-	S1B	1	BASE PLATE		
2		-	S2	1	BALLAST PLATE		
3		-	ALR4GLB-1	1	DIFFUSER ASSEMBLY		
4		-	CP6	3	CLAMP		
5		-	10F100MXPS	3	*10-32 1" SS SCREW		
6		-	10F75MXPS	2	*10-32 3/4" SS SCREW		
7		-	7100NWUSS	7	*10-32 SS FLAT WASHER		
8		-	10FNNES	5	*10-32 SS NYLOCK		
-		-	-	-	-		

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