

## DIFFUSER SET-UP

- 1** Remove diffuser from the box and press diffuser line into the orange plastic clips that protrude at the edges of the base.
- 2** Open the diffuser plug and fill diffuser base with small gravel to allow it to flow easily into the base. The base should be at least 3/4 full.
- 3** Replace diffuser plug once base is completely full. **CAUTION:** Once the diffuser base has been filled with gravel, do not lift assembly by diffuser hose or PVC structure. Use outer edges of base to pick up assembly.



## PRE-INSTALLATION

A short 3/8" I.D. piece of sinking airline with a hose barb has been pre-installed on the diffuser. Attach the inside end of the 100' roll of 3/8" I.D. sinking airline to this short piece using the hose clamp provided. Tighten the hose clamp using a socket/nut driver or flat head screwdriver. Do not over tighten clamp.

If a boat is being used (preferred) for diffuser placement, tie a rope to the outer holes on the diffuser body to allow you to drop the diffuser down to the bottom. If no boat is available (only works for 100' or less), tie a rope to one of the outer diffuser holes and pull diffuser into position with 100' of sinking airline attached.



## WHEN FISH ARE PRESENT

- Do not install the diffuser straight to the bottom. To keep the diffuser off of the bottom, tie a float to the blue plastic base with enough buoyancy to keep the diffuser suspended.
- Install your diffuser(s) at half-depth to not disturb the bottom and cause the anaerobic sludge to mix with the water.
- Lower it by 2' every second week until it is on the bottom.

Consider where the Can-Air Blue Diffuser(s) are to be located in the pond. Proper placement is the key for aeration efficiency. If using more than one diffuser, space the diffusers equally from one another in a depth that embodies the majority of the pond.

It is recommended to place a buoy for each diffuser to mark the area that it is to be placed.

# INSTALLATION

**1** Load your boat with the pre-assembled diffuser and the 100' roll of 3/8" I.D. sinking airline already attached. If the diffuser is more than 100' from the compressor, additional rolls of sinking airline will be required. Additional airline should be 1/2" or larger ID to reduce pressure drop. For every extra roll of sinking airline, you will need one hose barb connector and two hose clamps. Bring a nut driver or flat screwdriver to tighten clamps.

**Optional:** connect rope to base of diffuser for easier retrieval.

**CAUTION:** During installation do not use boats that tip easily. Always follow all boating safety rules and regulations, including wearing a personal flotation device.

**2** Position boat near the desired diffuser location. Slowly lower the diffuser into the water in a level upright position. Use the [optional] rope to guide the diffuser, or release the diffuser at the surface and allow it to sink to the bottom naturally. Always ensure that there is a sufficient amount of airline to avoid strain on the connection when dropping the diffuser.

**3** Once the diffuser is positioned, the [optional] rope may be kept in place and tied to a buoy for easier locating of the diffuser in the future. Slowly unspool the 3/8" I.D. airline into the water and make your way back to the shore where your compressor is located. Connect the airline to the compressor manifold/barbs and secure with clamps.

**4** For systems with two or more diffusers, repeat steps 1-3 for every diffuser. Once all diffusers are placed and properly connected to compressor manifold/barbs, the diffusers are ready to be balanced (in a multi-diffuser system set-up) or the system is ready to start up.

**5** To balance the diffusers, turn on the compressor and visually inspect the diffusers' bubbling performances. In small ponds this can be done from shore. In larger ponds/lakes, visual inspections may need to be done from the boat. Diffusers should all have similar bubbling action. If one appears weaker, reduce the air flow to the other diffuser(s) by adjusting the ball valve(s) on the manifold. Once the diffusers appear equal, your system is ready to operate!

Please note: Diffusers are weighted and self-righting but proper placement can be confirmed by checking for a rising pillar of bubbles, after connections and power set up are complete.

## DIFFUSER MAINTENANCE

Can-Air diffusers require minimal maintenance. For optimal performance, Pond Pro recommends diffusers to be rebuilt every 5-7 years, or as needed.

### How to tell if your diffuser needs a rebuild?

- It has been over 5 years since it was installed
- Large bubbles are produced by the diffuser
- The diffuser appears weaker in performance

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