

PROPER INSTALLATION FOR HAKKO AIR PUMPS

- 1- Install pump above water level. Do not rely on check valves. Install air pump in a protected area away from flooding or heavy rain. If installed in a protective house or box provide full and adequate air ventilation to keep pump cool and well ventilated. A "lean-to" is usually sufficient to protect the pump and will also allow good ventilation.
- 2- Use 5/8" to 1" diameter hose to connect air pump to your air diffuser system. If you re splitting the hose into multiple outlets then 1/2" size or even 3/8" size may be suffiecient.The Hakko 120 requires 1" tubing for single outlets and 5/8" or 1/2 inch tubing for multiple outlets.
- 3- Install air pump within 20 feet of the pond or septic system.
- 4- Use a proper air diffuser which will allow the air pump to exhaust it's maximum flow of air without restriction or clogging. (Such as our 9 inch or 12 inch air disc with weighted base.) A variety of air diffusers are available and some will clog prematurely with organics and minerals and will create an overheating effect on the air pump. Air stones typically clog and will require frequent cleaning to prevent back pressure and heating. **See attached article on Heat Control.**
- 5- Clean the air filter on top of the pump every 4 to 6 months. Just wash with fresh water and air dry.
- 6- The internal rubber diaphragms are not covered under warranty. Under proper installation the diaphragms can last 2 to 4 years. It is advisable to purchase a spare replacement diaphragm to have on hand when the original diaphragm fails. They are easy to replace.