



**For ProLake® Aeration Models:**  
**ProLake<sup>1</sup>, ProLake<sup>2</sup>, ProLake<sup>3</sup>, ProLake<sup>4</sup>**

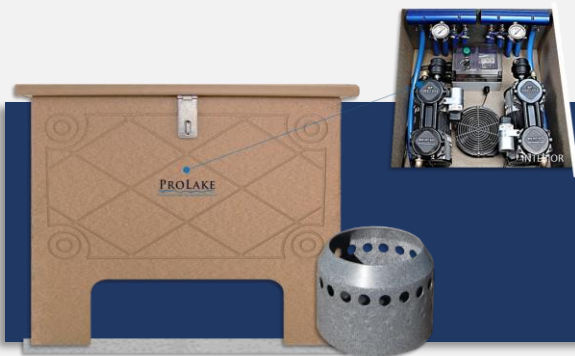
### PROLAKE PRODUCT SET UPS



#### PL-1 ProLake<sup>1</sup> Aeration Systems

Features 1 compressor and 1/4-port manifold that runs 1–4 diffusers.

- PL-1.1 = 1 Compressor/1 Diffuser
- PL-1.2 = 1 Compressor/2 Diffusers
- PL-1.3 = 1 Compressor/3 Diffusers
- PL-1.4 = 1 Compressor/4 Diffusers



#### PL-2 ProLake<sup>2</sup> Aeration Systems

Features 2 compressors and 2/4-port manifolds that runs 5–8 diffusers.

- PL-2.5 = 2 Compressors/5 Diffusers
- PL-2.6 = 2 Compressors/6 Diffusers
- PL-2.7 = 2 Compressors/7 Diffusers
- PL-2.8 = 2 Compressors/8 Diffusers



#### PL-3 ProLake<sup>3</sup> Aeration Systems

Features 3 compressors and 3/4-port manifold that runs 9–12 diffusers.

- PL-3.9 = 3 Compressors/9 Diffusers
- PL-3.10 = 3 Compressors/10 Diffusers
- PL-3.11 = 3 Compressors/11 Diffusers
- PL-3.12 = 3 Compressors/12 Diffusers

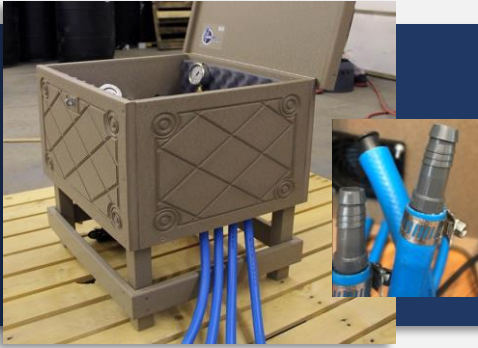


#### PL-4 ProLake<sup>4</sup> Aeration Systems

Features 4 compressors and 4/4-port manifold that runs 13–16 diffusers.

- PL-4.13 = 4 Compressors/13 Diffusers
- PL-4.14 = 4 Compressors/14 Diffusers
- PL-4.15 = 4 Compressors/15 Diffusers
- PL-4.16 = 4 Compressors/16 Diffusers

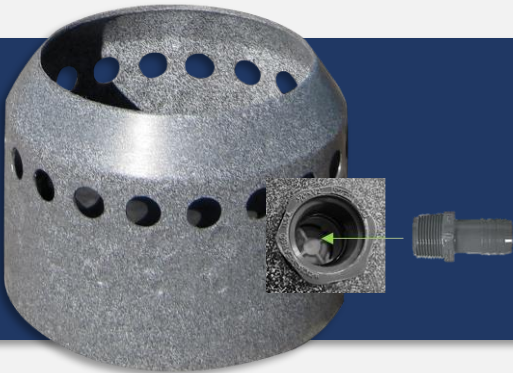
### PRODUCTS USED IN SET UP



#### ProLake® Aeration Cabinet

Securely houses all the internal operational parts, compressor, timer, fan and manifold(s).

Blue airline comes out of the aeration cabinet ready for hook up to each airline run of Alpine® ½ Inch Weighted Airline with a galvanized hose clamp included in the Alpine® Airline Connector Kit. Do not attached until diffusers are set in water to ensure proper length and fitment.



#### Duraplate™ Diffuser(s)

The rugged Duraplate™ Diffuser protects the diffuser head from fish hooks, debris and underwater predators.

Connect Duraplate™ Diffusers to the Alpine® ½ Inch Weighted Airline runs with ½ inch mail PVC fitting provided in the Alpine® Airline Connector Kit before using a boat to transport them to the desired location in the pond.



#### Alpine® ½ Inch Weighted Airline

Alpine® ½ Inch Weighted Airline provides heavy-duty, underwater protection to ensure nothing penetrates or compromises the airline.

Alpine® ½ Inch Weighted Airline connects to the blue airline from the ProLake® Aeration Cabinet on one end and then to the Duraplate™ Diffuser(s) on the other end.



#### Alpine® Airline Connector Kit

Provides all the connectors needed to connect all airlines associated with the install. Generally, more than needed will be provided.



### STEP 1



Find a partner to help. Gather tools required for install: A boat with a motor or oars, a 5/16th nut driver, utility knife, wrench, and a shovel. Find a suitable location for the aeration cabinet well above the high water line.

### STEP 2



Set the cabinet on a firm, level surface. Use a ProLake® Level-Aer™ Equipment Pad for best results. Then place/center the ProLake® Cabinet on the equipment pad. Equipment pads are optional and not required.

### STEP 3



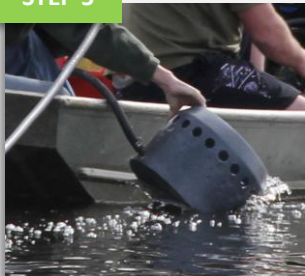
Dig a trench from the compressor cabinet to the shoreline to cover/bury tubing. Trench may need to be larger depending on which system you are installing. Typically PL-3 and PL-4 systems require a larger trench area.

### STEP 4



Layout the self-weighted airline in a zig-zag pattern on the shore with the airline connected to the diffuser(s). Ensure a secure connection. You should not be able to twist the tubing on the fitting once connected.

### STEP 5



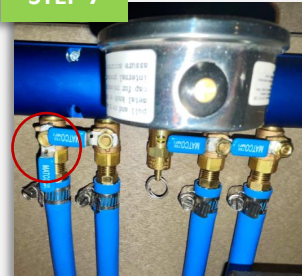
Place one diffuser in the boat and head to the desired location. Drop the DuraPlate™ diffuser with attached airline into water. DuraPlate™ diffusers are self-righting and will land properly. Have your partner ensure there is slack in the airline at the cabinet for easy connection to the blue outlet airline.

### STEP 6



Connect the self-weighted airline to the compressor cabinet. Ensure a secure connection.

### STEP 7



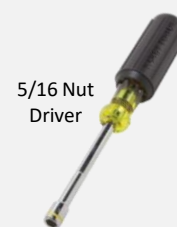
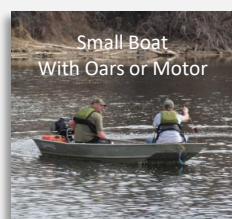
Plug unit into electrical outlet and turn the system on. Make sure manifold(s) are open (lever pointed down) and air is flowing to at least one diffuser. Use the manifold to balance airflow to diffusers by restricting flow to diffusers receiving the most air. Wait 90 seconds between adjustments.

### STEP 8



Turn the switch to "MANUAL" to run the aerator 24/7 (recommended), or "TIMER" to use the programmable timer. Close the cabinet and enjoy!

### TOOLS NEEDED



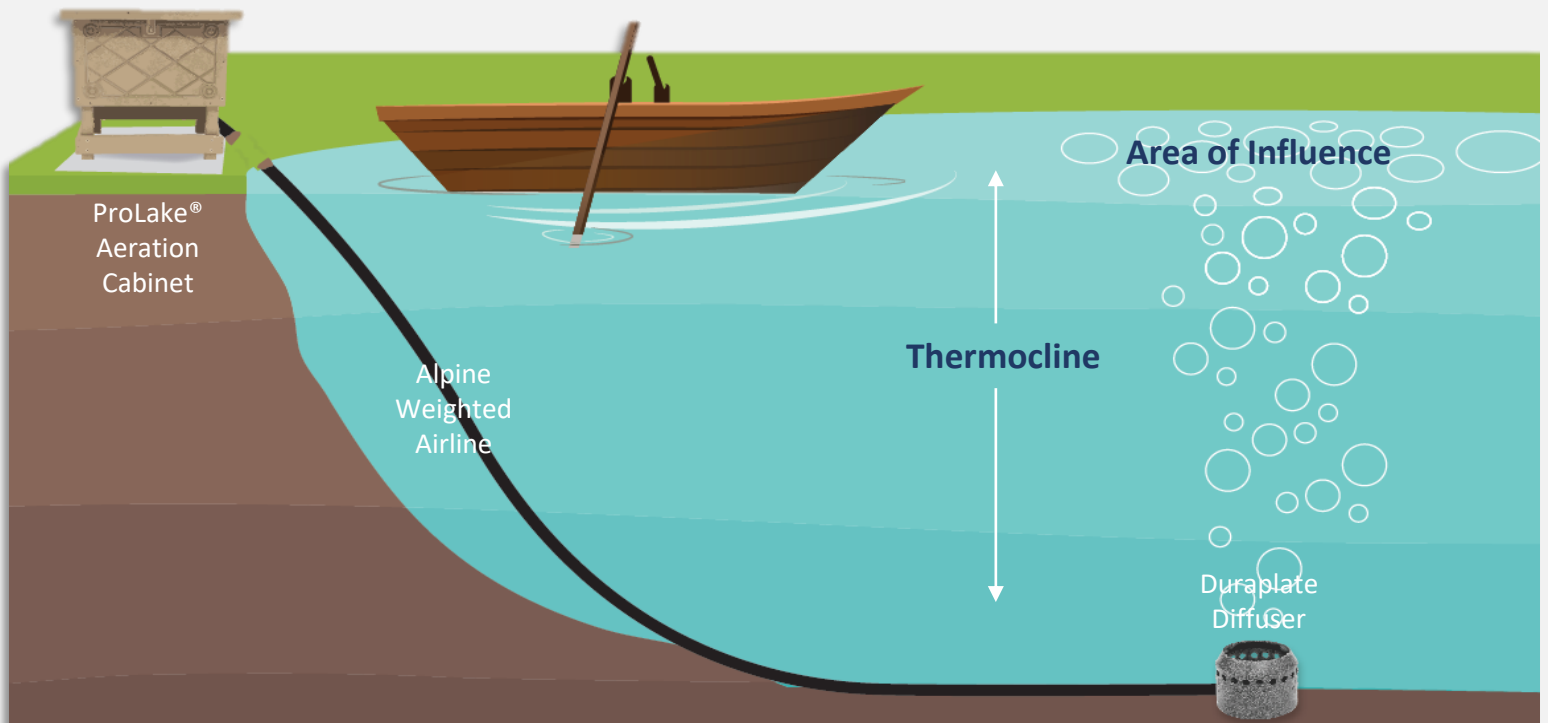
After the installation is complete you should notice a steady disturbance at the top of the water in each diffuser location. You can adjust air flow in the cabinet at the manifold (See Image Below). If you only see air bubbles in 3 locations you may need to adjust the valve lever in the cabinet. Most likely the valve feeding that diffuser is half open or even closed.

We suggest turning on your system with one valve open. Make sure you see bubbles in that location. Then move on to diffuser location 2, then 3, then 4 (depending on what system you have).

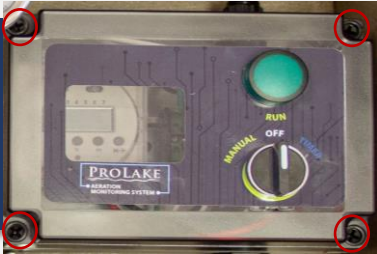


### COMPLETED INSTALLATION

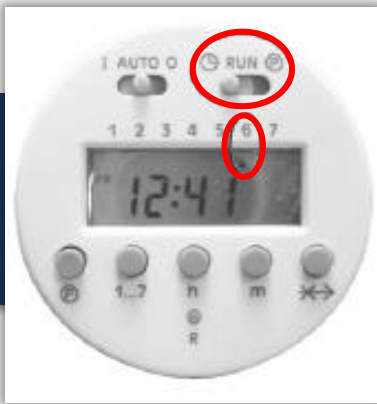
Aeration's purpose is to add oxygen to the water column and mix the thermocline (temperature layers of water). This action keeps your pond or lake clean and clear and from becoming stagnant over time.



### SETTING THE TIMER



1. Use a small Phillips screwdriver to remove the timer cover and set aside in a safe place.

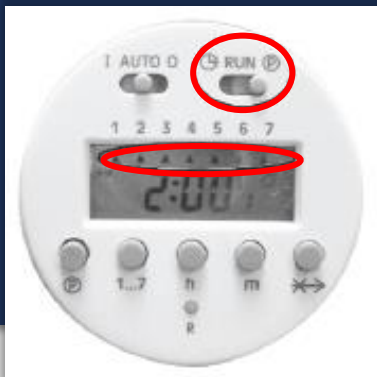


1. Move RUN switch to position.
2. Press "1..7" button to set day (Example: Sunday = 1, Monday = 2, Etc.
3. Press H to set the hour and M to set minutes.
4. Move RUN switch to RUN (center) position. Clock colon will blink when set.



#### Step 2: Set ON/OFF program(s)

1. Move RUN switch to ☺ position.
2. Press **1..7** button to choose days of program. Indicated by ▲ pointing to day of week 1-7. We recommend 7 days a week.
3. Press H to set hour and M to set minutes of the ON program (notice the 1 beside the time and lightbulb icon).
4. Press P to progress to next program.
5. Press H to set hour and M to set minutes of the OFF program (notice the 2 beside the time). Optional: Press P to progress to next program to ensure no other programs are set.
6. Press 1..7 button to program each day.
7. Return RUN switch to RUN (center) position. Clock colon will blink when set.
8. Ensure top switches are in the center position AUTO and RUN.

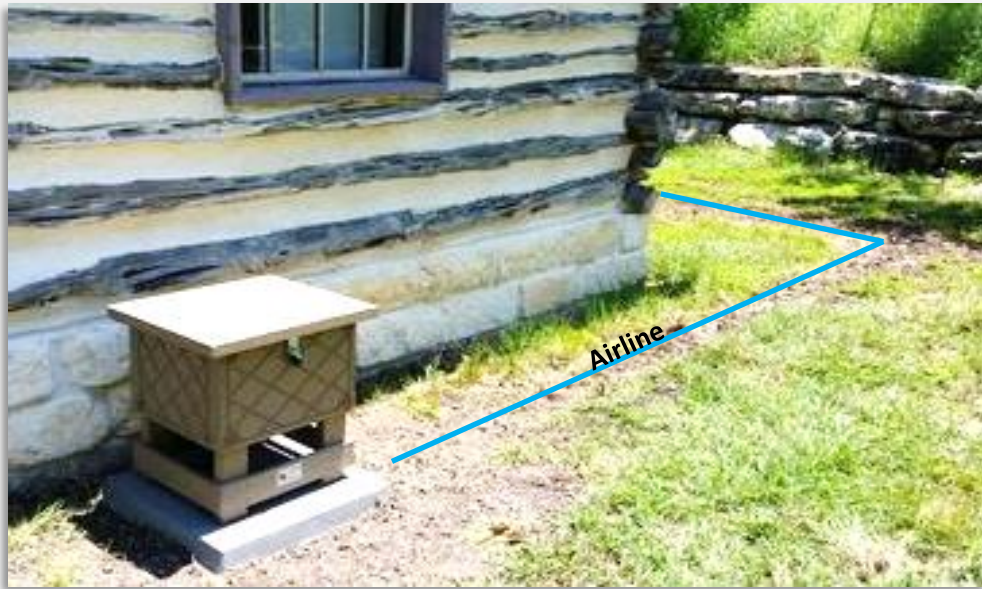


If program is not working correctly, press the R button. Repeat steps 1 and 2.

**NOTE: ONLY PL-1 AND PL-2 MODELS HAVE THE TIMER OPTION.**

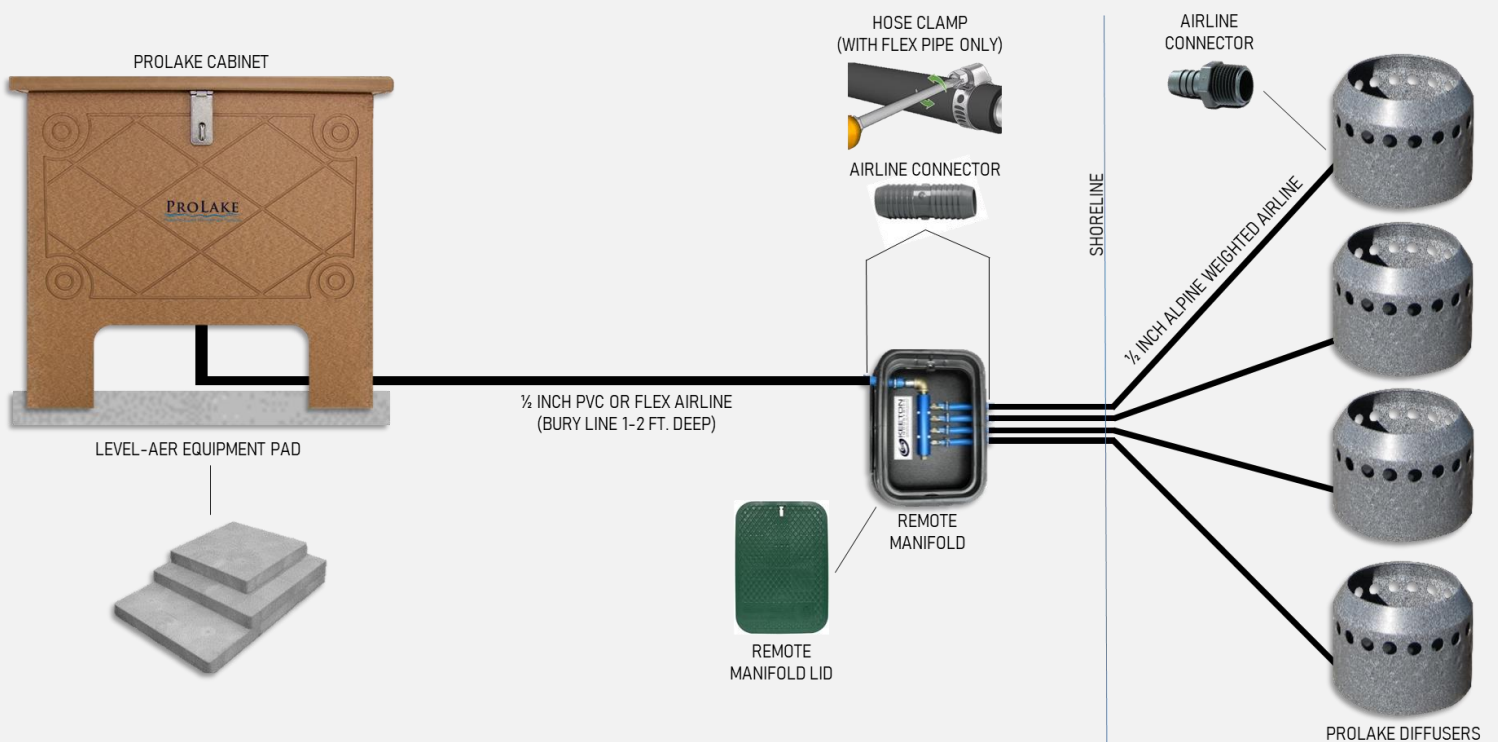


ProLake® Aeration Systems can be installed away from the water's edge where electrical hook-ups may be more conveniently located. ProLake® cabinets can be installed up to 4000 feet away by running a 1/2 inch PVC line from the aeration cabinet to a remote manifold. From the remote manifold the airlines can be run to the Duraplate™ diffusers. See the image below.



**NOTE: IF YOU ARE INSTALLING POND-SIDE, IGNORE THIS SECTION**

### REMOTE SET UP DIAGRAM

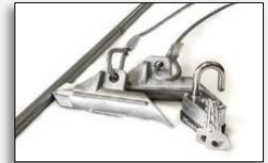


### COMPETED INSTALL



When completed a ProLake® Aeration System installation should look the one pictured to the left. Make sure the unit is level once installed and sufficiently stationed away from the edge of the pond and any overflow area that could cause issues during times of flooding. The system cabinet can be locked if in a high traffic region or not if installed in a remote area.

We suggest using our ProLake® AerLock™ Security Kit.



### PROLAKE MAINTENANCE AND REPAIR

#### MONTHLY SYSTEM CHECK

- Ensure compressor air intake filter is clean and not restricting airflow. Replace if necessary.
- Ensure air vents on bottom of cabinet are clean and free of debris.
- Ensure compressor and cooling fan are functioning properly. Repair or replace if necessary.

AerFlow™ Air Filter Element



System failure is almost always a result of compressor overheating due to clogged intake filters and/or air vents or cooling fan failure. Every eighteen (18) to twenty four (24) months the compressor should have a repair kit installed. This is a fairly simple process that usually takes about an hour to complete. If you are not mechanically inclined it is recommended to have a service professional do this for you. Repair kits come with instructions. You may send your compressor to Keeton Industries for maintenance or repair.

**IMPORTANT:** This equipment was thoroughly inspected and carefully packaged in our facility. Upon acceptance by the carrier (UPS, USPS, Motor Freight or Other) the carrier assumes responsibility for the goods in transit and their ultimate safe delivery. Should you receive your shipment in a damaged condition, either apparent or concealed; a damage claim must be made by you, the customer, directly with the shipping carrier. Keeton Industries cannot make this claim for you.

**APPARENT LOSS OR DAMAGE:** Should visual inspection upon receipt of goods show loss or damage, it must be noted on the freight bill, express receipt, or UPS driver's record and signed by the driver or agent. Failure to do so will result in the carrier refusing to honor your damage claim. The carrier will furnish you the necessary form(s) for filing a claim.

When damage is not apparent until the equipment is unpackaged, a claim for concealed damage should be made to the carrier. When damage is discovered, make a written or phone request to the carrier for inspection. You must make this request for inspection within forty-eight (48) hours of delivery. Immediately inspect all packages for exterior and interior damage upon receipt and make any claims as soon as possible. Keep all cartons and packaging material to show the inspector. The carrier will furnish you with an inspection report and necessary forms for filling a concealed damage claim, since such damage is the carrier's responsibility.

**RETURNS:** If you are unhappy with your order for any reason, Keeton Industries will gladly exchange items; issue credit or refund the purchase price to you (less restocking charges) within 7 days of receiving the product. In all cases, return shipping costs are the responsibility of the buyer. Please call (970) 568-7754 for a required Return Authorization Number. We do not accept returned merchandise without a Return Authorization Number displayed on the package.

**CAUTION:** It is dangerous to work in and around open water. Please wear safety equipment when using tools, shovels, etc. and be sure to wear a life vest while operating a boat. Be careful of ice covered lakes in the winter, aeration systems weaken the ice and it is never safe to walk on aerated lakes.



### MAINTENANCE PARTS

#### ProLake® Air Filter Element & AerFlow™ Compressor Maintenance Kit



Install Every 2 Years  
(Suggested)

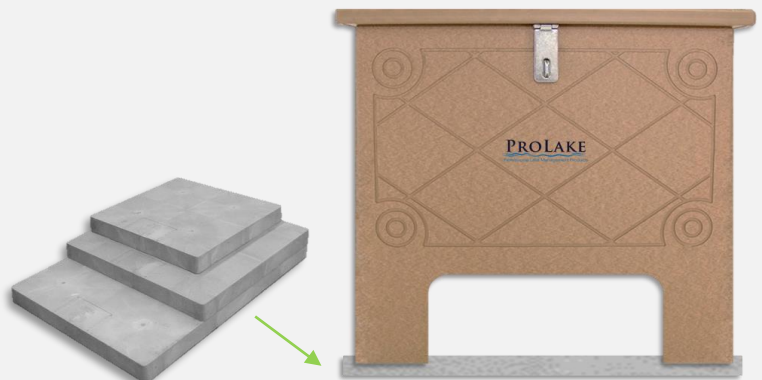


Replace Once A Year

### OPTIONAL PARTS



ProLake® AerLock™ Security Kit



Level-Aer™ Equipment Pad

### TROUBLESHOOTING

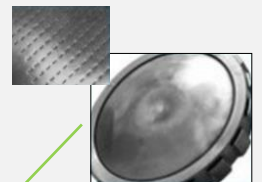


	LOW PRESSURE	HIGH PRESSURE	PUMP OVERHEAT	WON'T START	EXCESS NOISE	REASON AND REMEDY
<b>COMPRESSOR</b>	✓		✓	✓		FILTER DIRTY. CLEAN OR REPLACE.
	✓					VALVES CLOSED. OPEN VALVES.
	✓					WORN CUP. REPAIR OR REPLACE.
		✓	✓	✓		RELIEF VALVE SET TO HIGH. INSPECT AND ADJUST
	✓					RELIEF VALVE SET TO LOW. INSPECT AND ADJUST
	✓	✓	✓	✓		PLUGGED PRESSURE LINE. INSPECT AND REPAIR.
			✓	✓		LOW VOLTAGE, WON'T START. CHECK POWER SOURCE.
			✓	✓	✓	VOLTAGE WRONG. CHECK POWER SOURCE.
	✓				✓	WORN DIAPHRAGM HITTING CYLINDER. REPLACE.
			✓		✓	CYLINDER MIDADJUSTMENT. REALIGN.
	✓			✓		LEAKY HOSE OR CHECK VALVE. REPLACE.
✓		✓	✓	✓	DIRT OR LIQUID ON TOP OF DIAPHRAGM. INSPECT & CLEAN.	
			✓		TIMER SET INCORRECTLY. INSPECT AND ADJUST.	
			✓	✓	WORN COOLING FAN. CLEAN OR REPLACE.	
<b>DIFFUSERS</b>	UNEVEN AIR FLOW	HIGH AIR FLOW	LOW AIR FLOW	WON'T START	"BURPING" BUBBLES	REASON AND REMEDY
	✓		✓	✓		SYSTEM LEAK. CHECK CONNECTIONS, TUBING & REPAIR.
	✓	✓	✓	✓		MANIFOLD NOT SET CORRECTLY. INSPECT AND ADJUST.
			✓	✓		COMPRESSOR ISSUE. SEE ABOVE.
					✓	DAMAGED OR TORN MEMBRANE. REPLACE.
✓					UNBALANCED MANIFOLD. INSPECT AND ADJUST.	

### CABINET & DIFFUSER INTERNAL VIEWS



RELIEF VALVE LOCATED UNDER AER-FLOW MANIFOLD



DURAPLATE DIFFUSER HEAD & MEMBRANE



AER-FLOW MANIFOLD

PRESSURE GAGE

COOLING FAN

AIR CONTROL VALVES

TIMER

AIR FILTER

COMPRESSOR

AIR FILTER CARTRIDGE



### PRODUCT COVERAGE & POLICIES

Keeton Industries finished products, when properly installed and operated under normal conditions of use, are warranted by Keeton Industries to be free from defects in material and workmanship for a period of twenty-four (24) months from the date of purchase from Keeton Industries or an authorized Keeton Industries representative or dealer. In order to obtain performance under this warranty, the buyer must promptly (in no event later than thirty (30) days after discovery of the defect) give written notice of the defect to Keeton Industries, 1520 Aquatic Drive, Wellington, CO 80549, or an authorized service center. Buyer is responsible for freight charges both to and from Keeton Industries in all cases.

Keeton Industries' warranties also do not extend to any goods or parts which have been subjected to misuse, lack of maintenance, neglect, damage by accident or transit damage. Keeton industries will not be responsible or liable for indirect or consequential damages of any kind, however arising, including but not limited to those for use of any products, loss of time, inconvenience, lost profit, labor charges, or other incidental or consequential damages with respect to persons, business, or property, whether as a result of breach of warranty, negligence or otherwise. Notwithstanding any other provision of this warranty, buyer's remedy against Keeton Industries for goods supplied or for non-delivered goods or failure to furnish goods, whether or not based on negligence, strict liability or breach of express or implied warranty is limited solely, at Keeton Industries' option, to replacement of or cure of such nonconforming or non-delivered goods or return of the purchase price for such goods and in no event shall exceed the price or charge for such goods. Keeton Industries expressly disclaims any warranty of merchantability or fitness for a particular use or purpose with respect to the goods sold. There are no warranties which options set forth in this warranty, notwithstanding any knowledge of Keeton Industries regarding the use or uses intended to be made of goods, proposed changes or additions to goods, or any assistance or suggestions that may have been made by Keeton Industries personnel.

Unauthorized extensions of warranties by the customer/dealer shall remain the customer's/dealer's responsibility. DURAPLATE DIFFUSERS ARE COVERED BY A SEPARATE LIFE TIME WARRANTY AGAINST MATERIAL DEFECTS OR CRAFTSMANSHIP. This warranty can be modified only by authorized Keeton Industries Personnel by signing a specific, written description of any modifications.

**NOTE: THIS EXPRESS WARRANTY EXCLUDES ALL OTHER WARRANTIES OR REPRESENTATIONS EXPRESSED OR IMPLIED BY ANY LITERATURE, DATA, OR PERSON. KEETON INDUSTRIES MAXIMUM LIABILITY UNDER THIS EXCLUSIVE REMEDY SHALL NEVER EXCEED THE COST OF THE SUBJECT PRODUCT AND KEETON INDUSTRIES RESERVES THE RIGHT, AT ITS SOLE DISCRETION, TO REFUND THE PURCHASE PRICE IN LIEU OF REPAIR OR REPLACEMENT.**

### CONTACT US



#### Questions?

Installation instructions and instructional videos are also available on our website, [prolakeproducts.com](http://prolakeproducts.com). Contact us for help at **800.493.4831** or [info@keetonaquatics.com](mailto:info@keetonaquatics.com).

Watch the instructional video for complete set-up and installation:

