

The purpose of the aeration system is to circulate the lake's entire water column. The aeration system will circulate poor quality, deep water that accumulates over time upward to the lake's surface introducing harmful gasses into the previously healthy upper regions of the water column.

This movement of water can temporarily affect aquatic life and could result in a fish kill. To prevent a fish kill, Vertex has established the following start-up procedures, this should take 8 days:

1. Turn on system and operate for 15 minutes.
2. Turn off system for remainder of the day.
3. Restart the system the next day and operate for 30 minutes. Turn off system for the remainder of day.
4. Each day double the operating time from the previous day until the system is running continuously.

NOTE: These start-up procedures are a general guideline. If you should have any questions and/or concerns, contact Vertex Aquatic Solutions at 844-432-4303 for technical assistance.

Winter Operations for Vertex Aeration Systems

Our Systems are designed to operate year-round in cold climates with these important precautions:

1. Operating in freezing conditions on an ice-covered lake can cause large open water areas to remain at the boil sites Warning: ice thickness around these open areas is thinner than the ice over the remainder of the lake.

Injury or fatality may result from people, snowmobiles, etc. falling through the ice. Vertex strongly recommends that this danger of thin ice around the boil area be clearly posted at frequent intervals. Owner assumes all responsibility for operating Vertex aeration systems during winter months.

2. To prevent risk of freezing the entire water column, AirStations™ should be moved to a shallower portion of the waterway (typically one-half the depth of original placement) and operated there until warmer temperatures return, this will allow warmer water to remain in the lower regions of the waterway and prevent water column freezing.
3. The airline tubing on shore must be buried below the frost line and the compressor hose must be insulated between the cabinet and the ground. Also, the tubing must enter the water below the winter ice depth.



Open water and thin ice caused by aeration

If you choose to turn off the system for the winter:

1. Unplug the system; no other equipment preparation is required.
2. In the spring, when the system is restarted, airlines may still contain ice inside the line. One cup of denatured alcohol added to each frozen line will melt the ice enough to allow the compressor to push air through the line until heat generated by the compressor melts the remaining ice. Use first time and spring start-up procedures as listed above.