



# SA-120V-1L & 2L, SA-220V-1L & 2L, SA-12VDC-1L & 2L, (Wi-Fi & Non-WiFi Alarms)

## Sump Alarm High Water Alarm and Monitor

[www.SumpAlarm.com](http://www.SumpAlarm.com)

Contact: [CustomerService@SumpAlarm.Com](mailto:CustomerService@SumpAlarm.Com) 314-787-8059

### US PATENT #10,699,551

**WI-FI CUSTOMERS:** Please go to <https://www.youtube.com/c/sumpalarminc> for instructions on how to get your Wi-Fi enabled alarm online.

This documentation is applicable to Sump Alarm NON-WIFI part numbers starting with SA-120V-1L/XX, SA-120V-2L/XX, SA-12VDC-1L/XX, and SA-12VDC-2L/XX, SA-220V-1L/XX, SA-220V-2L-XX

The Sump Alarm High Water Alarm and Monitor is *designed for outdoor use, sun, rain, temperature resistance, and contains only Long-Life LED Pilot lights*. Your Sump Alarm carries a 5-year LIMITED warranty from the date of purchase, defined below.

Sump Alarm activates when the water level in the basin or sump rises above the desired level. The alarm system includes a red LED beacon with integrated audible alarm buzzer.

The high-level alarm system will automatically reset when the high-level condition is corrected. The enclosure is weatherproof to allow outdoor installation and has a flammability rating which meets UL 94-V0. **Figure 1** (at right) shows the front of the Sump Alarms to which this documentation applies.

**Read and follow all instructions and safety guidelines thoroughly before installing or operating the system. Failure to follow the instructions could result in serious bodily injury or death and/or property/pump damage.**



Figure 1 – 1L & 2L Head Unit



### SAFETY GUIDELINES

**WARNING: DISCONNECT ALL POWER BEFORE INSTALLING OR SERVICING THE PUMP OR THE SUMP ALARM!**

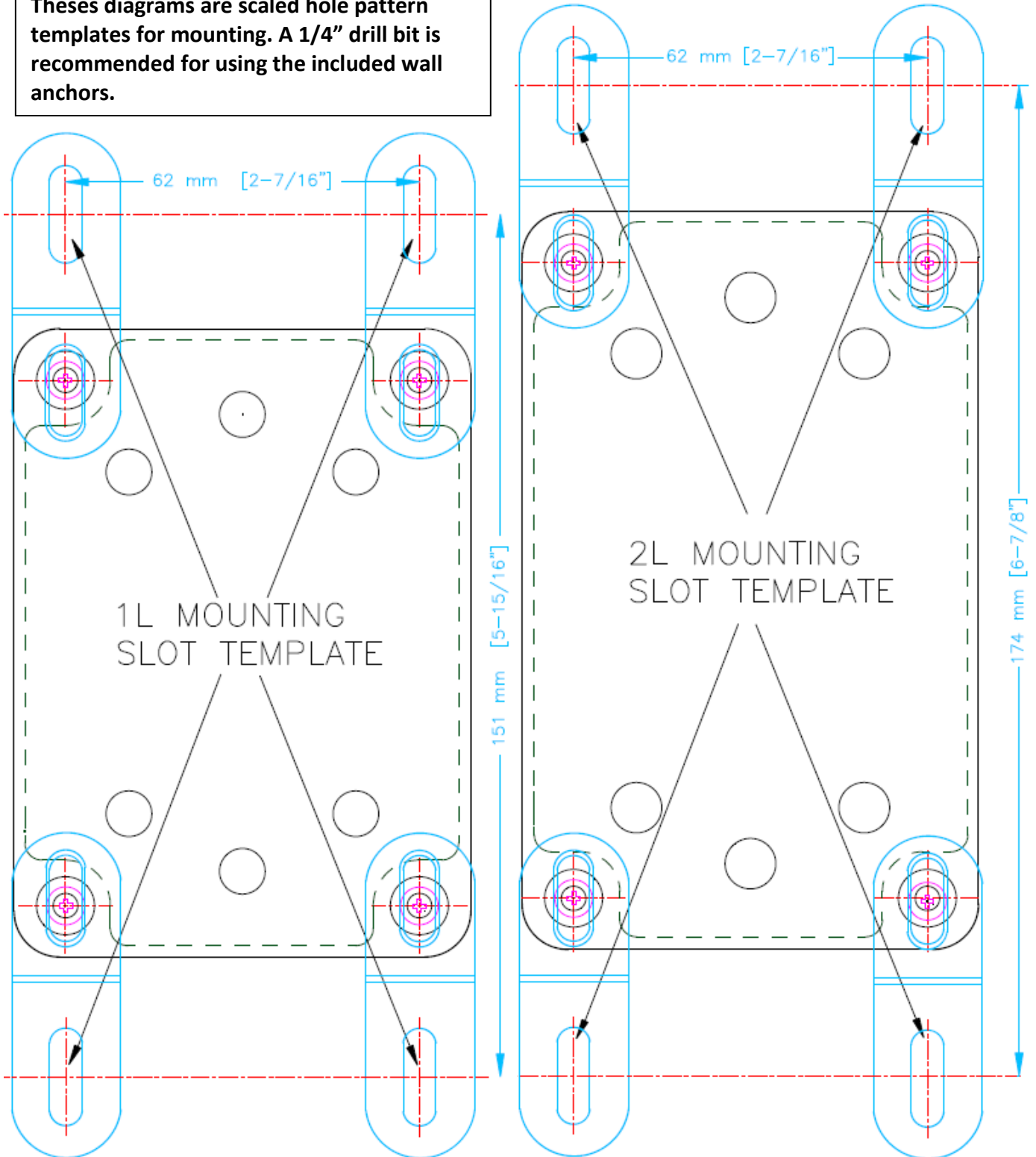
1. Read and follow all safety guidelines and installation/operation instructions.
2. Follow all national, state, or provincial, and local buildings, plumbing and electrical codes and ordinances.
3. Do not install or operate the Sump Alarm while standing on a wet or damp surface.
4. Do not energize the head unit if an electrical component is damaged or appears damaged or the head unit is open.
5. Do not energize if there are wires disconnected or which appear loose, frayed, or damaged.
6. Be certain to close the head unit to protect others against potential electrical shock and maintain moisture outside of the Sump Alarm head unit.
7. Do not install the unit in locations classified as hazardous in accordance with the most recent National Electrical Code.
8. Follow all installation/operation instructions and safety guidelines accompanying the grinder pumps and/or basin system.

### LOCATING & MOUNTING THE SUMP ALARM HEAD UNIT

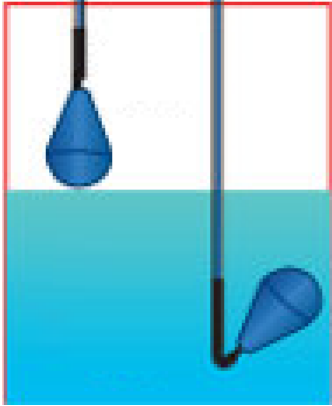
The Sump Alarm should be mounted in a convenient location. Cable lengths need to be considered, and extra float switch cable can be stowed above or below the water line. The head unit location should allow “line-of-sight” visibility of the indicating light from the desired vantage point. The sound is directional, and like the light, should be pointed to a designated location. The head unit needs to be mounted above ground. If it is below ground, you run the risk of the unit getting damaged if water ingresses into the alarm. Also verify that water cannot run off into the enclosure from areas around the device. If this occurs, the warranty is void.

The Sump Alarm should be securely mounted to a wall or secure vertical structure which is free of vibration. The alarm has four mounting holes. Mounting screws have been included for your convenience. Should screws of a different length be required, utilize a #8 Pan Head screw. **A NOTE ON POWERDRILLS: WHEN MOUNTING THE FEET, PUT THE DRILL AT THE LOWEST TORQUE SETTING TO AVOID STRIPPING THE PLASTIC RECEIVERS.**

These diagrams are scaled hole pattern templates for mounting. A 1/4" drill bit is recommended for using the included wall anchors.



#### TESTING THE UNIT



1. If not already complete, with POWER OFF mount the head unit.
2. Connect SUMP ALARM to a power supply.
3. Slowly lift the float switch from its resting position (at 6 o'clock) to a high-level position (2-3 o'clock).
4. **CONFIRM THAT THE RED-LIGHT ILLUMINATES AND HORN SOUNDS.**
5. Lower the float switch slowly to the resting position:
  - a. The RED "HIGH WATER ALARM LIGHT" should turn OFF, and AUDIBLE ALARM will STOP.
  - b. The cables should return to their original position without dragging or catching.

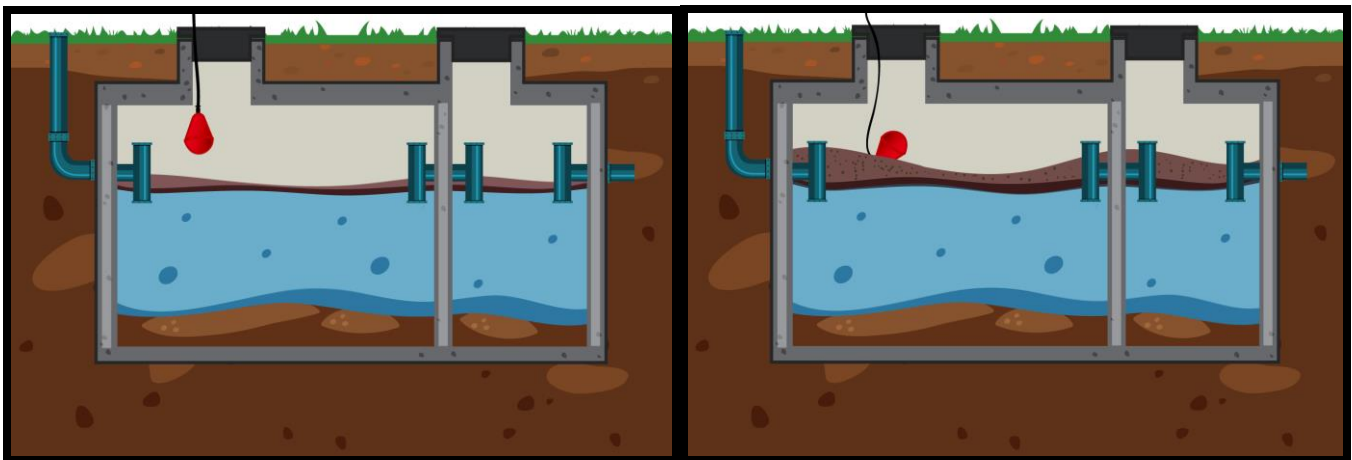
After the TESTING check has been completed, the unit is ready to be installed.

#### MOUNTING FLOAT SWITCHES

Sump Alarm is equipped with a float switch. Positioning and installation of the float switches is application dependent and will require consideration by you, the user.

The ALARM sensor should be positioned to activate (swing up) when the liquid level rises past normal and swings down to a 'hanging rest' position during normal operation. The float switch can actuate around itself, meaning that the float switch does not have to be tethered to a point. If the Float switch is tied off at the top of the tank, and only the designated amount of cord is dropped into the septic tank, the float switch can alert you after it has been lifted, which requires 6-8" of liquid change once the float has contacted the liquid. For example, if your tank is 10ft deep, and you wish to be notified when there is 2ft of space left in the tank, you will feed 2ft 6" of cable into the tank. The float can also be zip-tied to a specific location (such as the pump discharge pipe).

Once installation is complete, TEST the float switch in the final location (IF POSSIBLE).





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After the TESTING check has been completed, the unit is ready for operation.

Note: Common causes of high-level Alarm include:

1. Back flooding can happen when effluent flows from the surrounding area into the septic tank.
2. Using more water at once than your septic tank can cause clogs to occur and prevent the release of wastewater into the drain field.
3. A blockage of an outlet can cause effluent to accumulate in the tank, and eventually lead to a high-level alarm.
4. If the tank is not pumped out frequently enough, solid waste can accumulate, and block the outlet.

**LIMITED 5-YEAR WARRANTY**

Sump Alarm, Inc. warrants to the original consumer that this product shall be free of manufacturing defects for five years after the date of consumer purchase. During that time and subject to the conditions set forth below, Sump Alarm, Inc. will repair or replace, for the original consumer, any component which proves to be defective due to the materials or workmanship of Sump Alarm, Inc.

This warranty does not apply: (a) to damage due to lightning or conditions beyond the control of Sump Alarm, Inc. (b) to defects or malfunctions resulting from failure to properly install, operate, or maintain the unit according with the instructions provided; (c) to failures resulting from the abuse, misuse, accident or negligence; (d) to units which are not installed in accordance with applicable local codes, ordinances or accepted trade practices, and (e) to units repaired and/or modified without the authorization of Sump Alarm, Inc. To obtain warranty service: The consumer shall assume all responsibility and expense for removal, reinstallation and freight.

ANY IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS ARE LIMITED TO THE DURATION OF THIS WRITTEN WARRANTY. SUMP ALARM, INC. SHALL NOT, IN ANY MANNER, BE LIABLE FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES.