

STEP-BY-STEP INSTALLATION INSTRUCTIONS

**BATTERY BACKUP SUMP PUMP  
FLOODWATCH 3000**

- Pumps a whopping 3,000 gallons per hour at 10 ft. lift!
- Virtually indestructible.
- Fits into the busiest of sump pits.
- Highly efficient.
- Complete kit for easy installation.

Please read all the instructions before attempting to install the FloodWatch 3000.

The pumping capacity of the FloodWatch 3000 may vary depending on your piping configuration, battery age, and capacity.



<b>Specifications:</b>	
<b>Pump Motor:</b>	110 VAC @ 3450RPM, 1-Phase, 1/3 HP, 5.1 Amps
<b>Pump Dimensions:</b>	10”L x 8”W x 13”H
<b>Pump Weight:</b>	16 lbs.
<b>Float Switch:</b>	Vertical Style, with mounting clamp
<b>Water Alarm:</b>	9 VDC Battery Operated
<b>Battery Requirements:</b>	12 Volt Marine deep cycle or Sealed Lead acid, Size 27
<b>BATTERY NOT INCLUDED</b>	
<i>NOTE: Extra battery case available as an add-on kit to double pumping time; not pumping rate</i>	
<b>Flow Rates</b> (Avg. Gallons Per Hour):	
<b>Discharge Height/5 feet:</b>	3,300 Gallons Per Hour/55 Gallons Per Minute
<b>Discharge Height/9 feet:</b>	3,000 Gallons Per Hour/50 Gallons Per Minute
<b>Maximum Head:</b>	Up to 22 ft.
<b>Pumping Times:</b>	
Using Marine Deep Cycle Battery/10 second cycles	
At 1 minute intervals	12 Hours
At 5 minute intervals	24 Hours
At 15 minute intervals	48 Hours

## STEP 1: Pump Assembly

Before placing the pump into the pit, find the 2" PVC male threaded adapter, 1-1/2" pipe, check valve, PVC female adapter, and black polypro straight hose barbed male adapter.

- Thread the 2" PVC male threaded adapter into the sump pump discharge opening securely.
- Connect the end of the pipe with the "vent hole" and push the end into the 2" PVC male threaded adapter.
- Connect the other end (with no vent hole) into the check valve. **The flow arrow must be pointed upward.**
- Insert the spigot end of the PVC female adapter into top of check valve. **Do not drip glue into the check valve!**
- Thread the male pipe threads of the black polypro straight hose barbed male adapter securely into the female threaded opening of the adapter you just glued into the check valve.

### Additional Parts/Supplies Needed:

PVC Primer & Cement (small cans)

Teflon Tape or Pipe Sealant (Dope)

(4) Wall anchors to mount inverter

### Tools Needed:

Hand saw and/or PVC cutting tool

Utility knife, tape measure, pliers

Philips and slotted screwdrivers

## STEP 2: Float Switch

Use the built-in hose clamp to attach the float securely around the discharge pipe at the required elevation. The float rod collars are factory set to provide the largest travel possible. They can be adjusted to suit your situation; longer run cycles are best.

## STEP 3: Pump Placement

Place the assembled pump in the sump pit next to the main sump pump. Make sure the float does not interfere with the sump pit, wires, pipes, or the main pump float.

**Note:** You may elevate the pump above the primary pump if desired, but it will only pump down to its base and the float **MUST** be set so it does not run dry.

## STEP 4: Discharge Piping

**Note:** If you are using the pump as a supplement to your main pump, consider up-sizing to a 2" discharge pipe to handle the high flow rates produced when both pumps are running. The 2" Tee allows you to do this.

Thread the male bushing into threaded opening of the 2" Tee and connect the male threaded end of the black polypro elbow securely into the bushing. Use the flexible hose from the pump to the discharge pipe of the main sump pump, at a point above the existing check valve, to determine the proper position of the tee. Mark the location of the assembled Tee fitting on the pipe. Hose may be cut to fit using a utility knife or hack saw. If the main discharge pipe is 1-1/2" PVC glue the bushings provided, into the Tee fitting; if not needed, set them aside. Squarely cut and remove a 2" section from your main pump discharge pipe at the marked location. Glue the Tee into position on the main pump discharge pipe; turn it to face correct direction while you can. While it dries, place a stainless steel hose clamp on each end of the hose and push on the flexible hose to the pump discharge and to the Tee assembly using the black barbed hose connectors. Twist clockwise to help with this step. Tighten the hose clamps at both ends.

## STEP 5: Water Alarm

Refer to separate instructions included with the alarm and keep

## STEP 6: Power Inverter

Position the power inverter in the desired location on an adjacent wall and attach it using the supplied wood screws. Inverter is fairly heavy and should be securely attached. Wall anchors may be needed for various wall types. The battery cables are 6 ft. long and must reach from the right side of the inverter to the battery.

## STEP 7: Wires & Cables

**Battery:** Remove wing nuts from battery terminals and set aside till later.

**Charger:** The battery charger is supplied with ring terminals and alligator clips. We advise that you use the ring terminals for the sump pump and the alligator clips for other types of temporary charging needs. A convenient inline connector is used for easy change out. Place the RED (+) ring terminal from the charger to the positive battery terminal and the BLACK (-) ring terminal to the negative battery terminal. **DO NOT PLUG IN THE CHARGER YET.**

**Inverter To Battery:** Connect the supplied battery cables to the inverter terminals, RED cable to "RED 12V" DC terminal and BLACK cable to the "BLACK 12V DC." Attach the other ends of each cable to the battery terminals. RED to POSITIVE and BLACK to NEGATIVE. Now you may place and tighten the wing nuts on the battery terminals. Grounding the inverter is recommended. Attach a #12-14 AWG wire from the inverter ground terminal to a cold water pipe using a grounding clamp.

**Pump & Float To Inverter:** The float is supplied with a "piggyback" type plug. The sump pump is to be plugged into the piggy-back plug of the float and together both are plugged into ONE of the inverter outlets.

**Plug the charger** into 110V GFCI protected wall outlet. A heavy gauge extension cord maybe used if necessary. The charger is now charging and/or monitoring the battery.

**Dual Battery Case (optional):** You may use a second battery with our Dual Battery Case Kit (sold separately). Using the 2 foot long cable supplied with the kit, connect from one battery to the other using the RED cable to each positive (+) battery terminal and the BLACK cable to each negative (-) battery terminal.

## START UP

After completing Steps 1-8, you are now ready to power up the system. Locate the red toggle switch on the side of inverter and switch to the on position. Fill the sump pit with enough water to activate the pump and confirm the following items:

- That the float switch is in the correct position, if not loosen the clamp slightly and rotate on the pipe if needed. Also confirm that the height is in the proper position. Adjust float and re-tighten securely.
- Confirm that all joint connections are secure and not leaking. Correct as necessary.
- The water alarm sensor may have to be repositioned to prevent nuisance alarming from incoming water or spray from the vent hole.
- Repeat the start-up procedures if necessary after making adjustments to the float, pipe, and/or alarm sensor.

## TROUBLESHOOTING

### Pump is running but no water is being removed from pit?

- Clogged suction or discharge piping: clear obstruction and restart.

### Pump is removing low volumes of water?

- Pump suction or discharge piping may be partially clogged: clear obstruction.
- Excessive discharge pipe length and/or configuration can produce a large pressure drop; accept the lower flow or change the piping layout, direction, length, etc.
- Battery may need charging or replacing. **A new battery often needs 24 - 36 hours of charging; if battery is new, wait a day or two before all final testing is done.** If it is more than 3 years old, it is likely to need replacing.

### Pump will not turn on or off properly?

- Float must be **fully down for off** and **fully up for on**. Adjust float by hand to each position required to test pump and reposition collars on the float rod, if necessary, to assure proper operation.

**Note:** Longer runs cycles are better, so keep the start/stop positions as far apart as possible.

- Battery terminals may be connected improperly: correct and tighten securely.

## MAINTENANCE PROCEDURES

**3-4 times per year** lift the pump float by hand and confirm pump operation and water removal. Confirm that the float is allowed to move freely and hits no obstacles. Check battery age and charger status lights. The RED light means the charger is POWERED from the wall outlet. The YELLOW light means it's CHARGING. The GREEN light means the battery is charged and the charger has switched to the "FLOAT MODE."

**Note:** It is normal for the charger to switch back and forth between the "Charging" and "Float" modes. This is an automatic charger; no adjustments or maintenance are required. See Separate Charger Instructions for further details.

## Customer Satisfaction Guarantee and One Year Limited Warranty

Contact us by phone at 1-800-472-0603 or email to sales@radonseal.com regarding any questions or problems. Before returning the product, you must contact us first for authorization. Please give your name, address, phone number, and date of purchase.

If you are not completely satisfied with your new pump within 30 days of shipment, we will refund your money in full except for shipping charges, as long as it is returned in its original packaging and in re-salable condition, shipping pre-paid.

We warrant the pump to be free of defects in material and workmanship, to the original owner, for a period of one year from the date of shipment. In the event of any defect within the warranty period, we will, at our option, replace or recondition the product without charge providing the product is returned, prepaid to the factory. This shall constitute the exclusive remedy for any alleged defect. The warranty is applicable in the USA and Canada only.

The warranty becomes void by any misapplication, misuse, abuse, or improper installation of the product. This warranty gives you specific legal rights and you may also have other rights, which may vary from state to state. We make no other warranties, express or implied, except as provided in this limited warranty.

We shall not be responsible for any incidental, indirect, contingent, or consequential damages, including, without limitation, damages or other costs resulting from labor charges, delays, loss of use, revenue or profit, vandalism, negligence, fouling caused by foreign material, damage from peculiar water conditions, chemicals, electrical problems, or other circumstances over which we have no control.

