

BATTERY BACKUP SYSTEMS

Who needs a battery backup sump pump system?

Anyone with an AC sump pump. Whether you've spent thousands of dollars finishing your basement or simply use it for storage, water damage is a devastating and costly occurrence. Water can flood the basement when the AC sump pump breaks, when the power is out, or when torrential rains overload the AC pump beyond its pumping capacity. You can provide added protection for your home by installing a battery backup sump pump system along with your AC pump, so your ability to pump is never interrupted.

Why does a Basement Watchdog battery backup system provide more protection than other brands?

A backup system with a dead battery, loose cables, or a clogged pump is like having no backup system at all. With other brands you'll never know if there is a problem, or if the backup will work when you need it.

Basement Watchdog backup sump pumps have unique monitoring systems that sound an alarm when maintenance is needed, or when a problem arises. A light will appear on the front panel of the control unit next to a printed message that identifies the problem and the solution. With this advance warning you can take corrective action, so the system will always be ready to pump.

And, of course, Basement Watchdog pumps will turn on automatically as soon as water rises high enough to reach their float switch – whether you're home or not.

What makes Basement Watchdog systems different?

A unique monitoring system which includes a sensor that measures the fluid level in the battery, and a compact, dependable float switch that won't get hung up in the sump pit. Two redundant floats provide added reliability.



DEPENDING ON THE INSTALLATION METHOD YOU CHOOSE, YOU WILL NEED SOME ADDITIONAL PARTS.

- 1-1/2" PVC pipe and fittings
- PVC cement and primer
- A rubber union with hose clamps or a "Y" connector & two check valves
- A Basement Watchdog battery
- Six quarts of 1.265 specific gravity battery acid

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There are three Basement Watchdog battery backup systems. Which one is right for you? Consider pumping capacity, charger strength, monitoring features and price. Consult the comparison chart.



FEATURES	Big Dog	Special	Emergency
POWERFUL			
Pumping capacity (in gallons per hour @ 10-ft. height)	2200 GPH	1730 GPH	1000 GPH
Pumping capacity (in gallons per hour @ 0-ft. height)	3500 GPH	2500 GPH	2000 GPH
EFFICIENT			
Charger strength (the higher the amps, the faster it will recharge the battery)	20 amps	1.6 amps	.4 amps
Continuous run time on matching battery	7.5 hours	7.5 hours	6 hours
Runs intermittently for days	.	.	.
AUTOMATIC			
Switches automatically to battery power when AC power fails	.	.	.
Pumps automatically when water volume exceeds the capacity of the main AC pump	.	.	.
VERSATILE			
Pumps on AC power as well as battery power	.	.	.
Automatically tests the pump weekly	.	.	.
USER-FRIENDLY			
Detects irregularities, sounds an alarm, and pinpoints problems and solutions on the control panel	.	.	.
The alarm can be silenced during a power outage	.	.	.

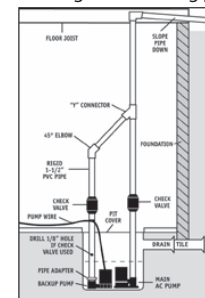
AN ALARM WILL SOUND, INDICATING THESE POTENTIAL PROBLEMS • Battery needs water • Battery is old and needs to be replaced • Battery is discharged or defective • Cable is loose or terminals are corroded • Power, fuse or circuit breaker has failed • Pump has been activated; check the main pump for failure

INSTALLATION

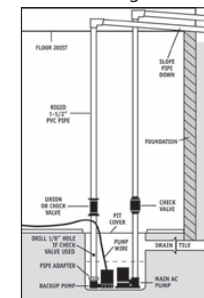
Basement Watchdog systems are easy to install in either a wide or a narrow sump pit. The discharge pipe can be run directly outside, or it can be plumbed into the discharge pipe of the main AC pump.

All systems come with detailed installation instructions complete with pictures and diagrams.

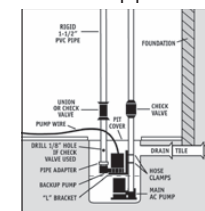
Discharge into existing pipe



Direct discharge outside



Installation in a narrow sump pit.



Why should you use a Basement Watchdog battery?

Basement Watchdog batteries have a unique construction that enables them to:

- Run our sump pumps longer...for more hours per charge "The longer the run time, the greater the protection"
- Remain viable for more years...normally five to seven years of standby service
- Accommodate the battery fluid sensor

About 80% of battery failures are the result of low fluid levels. Basement Watchdog systems have a special battery cap or sensor hole which holds a battery fluid sensor at the correct height to measure the liquid level in Basement Watchdog batteries. The control unit will sound an alarm when the fluid is low so you know when to fill the battery and keep it at peak capacity. However, the battery cap and fluid sensor cannot be used on other brands of batteries. By using another battery, you would lose this important feature.

Basement Watchdog batteries are standby batteries. They will last longer and perform better than automotive or deep cycle batteries in this application. You won't have to replace them as often as other batteries. Do not use a maintenance-free or a sealed battery with Basement Watchdog products. They may cause false alarms.

Watchdog batteries are vacuum sealed, and shipped without acid so that they will remain fresh on the shelf. Adding acid activates the battery. Be sure to pick up an acid pack when you purchase the battery. Filling the battery can be done easily and safely.

Which battery should you use?

Use the Basement Watchdog 7.5 hour battery with any of the Basement Watchdog systems. However, the Emergency battery should only be used with the Emergency sump pump system. It's not powerful enough to run the other systems more than 3-1/2 hours continuously.

In most situations the pump does not run continuously in your home. It empties the sump pit and then turns off until the pit fills up again. These batteries can run the backup pumps intermittently for days.



30HDC140S

24EP6



Watching Out for You!

- Battery Backup Sump Pumps
- Primary Sump Pumps
- Combination Pumps
- Dual Float Switches
- Water Alarms



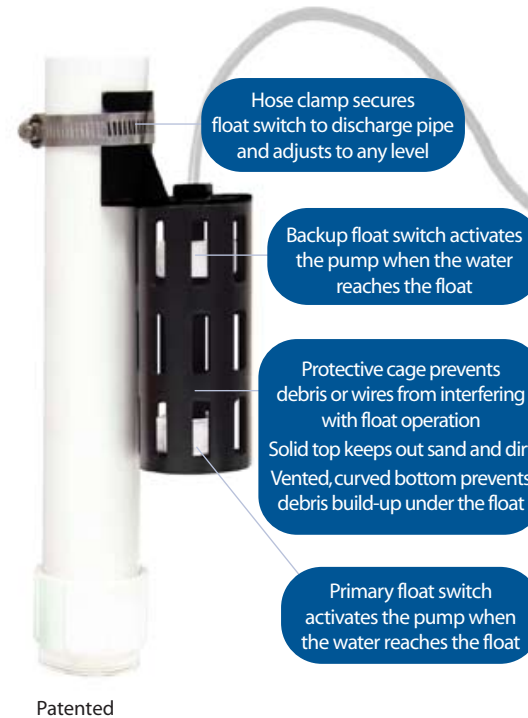
Protect Your Home

DUAL FLOAT SWITCH

The Basement Watchdog dual float switch and controller are so revolutionary, they are changing the way the plumbing industry measures reliability!

Until now there have been three varieties of float switches: vertical, tethered and pressure. Unfortunately, all three of these switches are subject to various forms of failure. Now a float switch has been created with redundant switches to eliminate these problems.

The Basement Watchdog Dual Float Switch has, not one, but two floats mounted within a protective cage. Should one float fail to operate, the second float automatically activates the pump. The protective cage prevents debris or other wires from interfering with movement of the floats. The result... the most reliable float switch in the industry!



Dual Float Controller (Model # BWC1)

The dual float controller is included with all AC sump pumps. It activates the pump when water lifts the float switch, and runs the pump for an additional 10 seconds to completely empty the sump pit once the float returns to its original position. The dual float and controller are included with the Basement Watchdog AC pumps, and they can be purchased separately for use with other sump pumps up to 15 amps.



Basement Watchdog Specifications

Model	Motor HP	GPH @ 10 ft. Head	Pump Discharge	Line Voltage	Amps @ 10 ft. Head	Power Cord Length
BW1033	1/3	2,200	1-1/2"	115 VAC, 60Hz	2.2	13 ft.
BW1050	1/2	2,820	1-1/2"	115 VAC, 60Hz	2.7	13 ft.

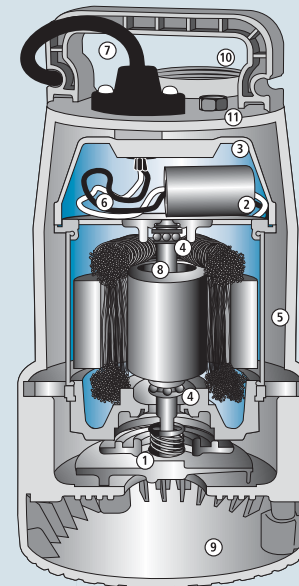


1/3 HP sump pump 1/2 HP sump pump Dual float switch

PRIMARY SUMP PUMPS

Not all sump pumps are created equal

This complete line of Basement Watchdog AC pumps is rated for continuous duty, which means they are built to run continuously 24 hours a day, 365 days a year. They're strong and dependable, and when they are used intermittently in a sump application, it extends the life of the pump. We back this up by offering a 3-year warranty on all models when used in intermittent applications.* Both pumps are 115V, 60Hz.



- ① High pumping capacity
- ② Efficient permanent split capacitor motor (PSC)
- ③ Dual seals to protect the motor
- ④ Upper and lower ball bearings
- ⑤ Water-cooled, no oil to leak
- ⑥ Thermally protected
- ⑦ 13' epoxy-sealed power cord
- ⑧ Stainless steel shaft and fasteners will not corrode
- ⑨ Non-corrosive housing
- ⑩ Vertical discharge provides narrow footprint to fit in sump pits as small as 7" dia.
- ⑪ Built-in air relief vent

* 1-year warranty when used in continuous duty applications such as fountains or ponds.

Energy Efficient: Pays for itself!

Many of the components outlined above contribute to increased energy efficiency. When comparing these pumps to other brands, the Basement Watchdog pumps use substantially fewer amps, making them considerably less expensive to run. Average cost savings earned when using a BW1033 1/3 HP sump pump is \$73.54 per year, \$78.58 per year when using a BW1050 1/2 HP sump pump.**



** Based on an average pump run time of 5 minutes per hour for one year. Model BW1033 uses 2.2 amps @ 10' lift. The estimated industry average is 9.5 amps. Model BW1050 uses 2.7 amps @ 10' lift. The estimated industry average is 10.5 amps. Average electric cost per kilowatt-hour is estimated at \$0.12.



COMBINATION PRIMARY AND BATTERY BACKUP SUMP PUMP SYSTEM

Basement Watchdog offers two combination sump pump systems designed to provide both primary and backup pumping capabilities. The primary pump will operate as long as it is receiving AC power. If the power is interrupted, or more water is coming into the sump than the AC pump can handle, the backup sump pump will begin pumping automatically. The backup system has unique monitoring features that diagnose a problem and sound an alarm. A light on the display panel of the control unit will indicate the cause of the alarm and the corrective action. The two systems have been pre-assembled for easy installation.

PRE-ASSEMBLED FOR EASY INSTALLATION



Key Features:

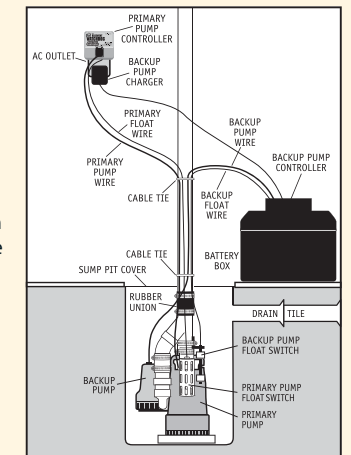
- Already assembled for easy installation
- Compact -- fits in sump pit as small as 12" in diameter
- Patented dual float switch included on primary and backup pump offering added reliability
- Unique monitoring system ensures everything is operating properly
- 2-year warranty

System Specifications

Model	Pump	Motor GPH
Big Combo	Primary	4,000 GPH (2,820 GPH at 10' lift)
	Backup	2,500 GPH (1,730 GPH at 10' lift)
Combo	Primary	3,200 GPH (2,200 GPH at 10' lift)
	Backup	2,000 GPH (1,000 GPH at 10' lift)

Easy Installation:

1. Cut discharge pipe and remove old unit
2. Position combination unit in sump pit
3. Connect combination unit to discharge pipe with rubber union
4. Connect backup controller and battery
5. Plug in both controllers



Water Alarm

Minimize the risk of water damage with a Basement Watchdog Water Alarm

Accidents happen... water heaters rust and leak, laundry tubs overflow, pipes break. You can detect leaks before they become bigger problems by placing a water alarm wherever there is a risk of water damage... in the utility room, laundry room, kitchen, bathroom or basement. The alarm will sound when as little as 1/32" of water reaches the sensor.



BWD-HWA