Notice to Installer: Instructions must remain with installation.

"Quality Pumps Since 1939"

Product information presented here reflects conditions at time of publication. Consult factory regarding discrepancies or inconsistencies.

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SECTION: 6.10.015
FM1129
0105
Supersedes
0304

Water Ridd'r II

INSTALLATION INSTRUCTIONS

These installation instructions are applicable for Water Ridd'r II Sump Pumps: Model 48

PREINSTALLATION CHECKLIST - ALL INSTALLATIONS

1. **Inspect your pump.** Occasionally, products are damaged during shipment. If the unit is damaged, contact your dealer before using. **Do Not** remove the test plug in the cover.
2. **Carefully read the literature** provided to familiarize yourself with specific details regarding installation and use. These materials should be retained for future reference.

⚠ WARNING

SEE BELOW FOR LIST OF WARNINGS

1. Make sure there is a properly installed ground fault circuit interrupter (GFCI) protected circuit available. All pumps are furnished with provisions for proper grounding to help protect you against the possibility of electrical shock.
2. Make certain that the ground fault receptacle is within the reach of the pump's power supply cord **DO NOT USE AN EXTENSION CORD.** Extension cords that are too long or too light do not deliver sufficient voltage to the pump motor. But, more important, they could present a safety hazard if the insulation were to become damaged or the connection ends were to fall into the sump and become wet.
3. **Make sure the pump electrical supply circuit is equipped with fuses or circuit breakers of proper capacity.** A separate branch circuit is recommended, sized according the National Electrical Code for the current shown on the pump name plate.
4. **TESTING FOR GROUND.** As a safety measure, each electrical outlet should be checked for ground using an Underwriters Laboratory Listed circuit analyzer which will indicate if the power, neutral and ground wires are correctly connected to your outlet. If they are not, call a qualified licensed electrician.
5. Installation and checking of electrical circuits and hardware should only be performed by a qualified licensed electrician.
6. FOR YOUR PROTECTION, ALWAYS DISCONNECT PUMP FROM ITS POWER SOURCE BEFORE HANDLING.
7. Water Ridd'r II pumps are supplied with a 3-prong grounded plug to help protect you against the possibility of electrical shock. **DO NOT UNDER ANY CIRCUMSTANCES REMOVE THE GROUND PIN.** The 3-prong plug **must** be inserted in a mating 3-prong fault interrupter receptacle. **If** the installation does not have such a receptacle, it must be changed to the proper type, wired, and grounded in accordance with the National Electrical Code and all applicable local codes and ordinances.
8. Risk of electric shock. This pump has not been investigated for use in swimming pool areas.
9. According to the state of California (Prop 65), this product contains chemicals known to the state of California to cause cancer and birth defects or other reproductive harm.

⚠ CAUTION

SEE BELOW FOR LIST OF CAUTIONS

1. Check to be sure your power source is capable of handling the voltage requirements of the motor, as indicated on the pump name plate.
2. The installation of automatic pumps with auxiliary float switches is the responsibility of the installing party and care should be taken that the tethered float switch will not hang up on the pumping apparatus or pit peculiarities and is secured so that the pump will shut off. It is recommended to use rigid piping and fittings and the pit be 12" or larger in diameter.
3. Vent hole purpose. It is advisable that all submersible sump pumps be of the bottom intake design to reduce clogging and seal failures. **If** a check valve is incorporated in the installation, a vent hole (approx. 3/16") **must** be drilled in the discharge pipe below the check valve and pit cover to purge the bottom intake unit of trapped air. Trapped air is caused by agitation and/or a dry basin. This vent hole should be checked periodically for clogging. Water stream will be visible from this hole during pump run periods.
4. Water Ridd'r II pumps are not designed or intended to be used to handle sewage or effluent.
5. This pump has been evaluated for use with WATER only.
6. Maximum continuous operating water temperature for standard model pumps must not exceed 77°F (25°C).

Note: Pumps with the "UL" mark and pumps with the "US" mark are tested to UL Standard UL778. CSA Certified pumps are certified to CSA Standard C22.2 No. 108.

REFER TO WARRANTY ON PAGE 2.

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DO NOT USE FOR PUMPING OILS, GASOLINE OR ANY PETROLEUM BY-PRODUCTS.

LIMITED WARRANTY

Manufacturer warrants, to the purchaser and subsequent owner during the warranty period, every new product to be free from defects in material and workmanship under normal use and service, when properly used and maintained, for a period of one year from date of purchase by the end user, or 18 months from date of original manufacture of the product, whichever comes first. Parts that fail within the warranty period, one year from date of purchase by the end user, or 18 months from the date of original manufacture of the product, whichever comes first, that inspections determine to be defective in material or workmanship, will be repaired, replaced or remanufactured at Manufacturer's option, provided however, that by so doing we will not be obligated to replace an entire assembly, the entire mechanism or the complete unit. No allowance will be made for shipping charges, damages, labor or other charges that may occur due to product failure, repair or replacement.

This warranty does not apply to and there shall be no warranty for any material or product that has been disassembled without prior approval of Manufacturer, subjected to misuse, misapplication, neglect, alteration, accident or act of God; that has not been installed, operated or maintained in accordance with Manufacturer's installation instructions; that has been exposed to outside substances including but not limited to the following: sand, gravel, cement, mud, tar, hydrocarbons, hydrocarbon derivatives (oil, gasoline, solvents, etc.), or other abrasive or corrosive substances, wash towels or feminine sanitary products, etc. in all pumping applications. The warranty set out in the paragraph above is in lieu of all other warranties expressed or implied; and we do not authorize any representative or other person to assume for us any other liability in connection with our products.

Contact Manufacturer at, 3649 Cane Run Road, Louisville, Kentucky 40211, Attention: Customer Service Department to obtain any needed repair or replacement of part(s) or additional information pertaining to our warranty.

MANUFACTURER EXPRESSLY DISCLAIMS LIABILITY FOR SPECIAL, CONSEQUENTIAL OR INCIDENTAL DAMAGES OR BREACH OF EXPRESSED OR IMPLIED WARRANTY; AND ANY IMPLIED WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE AND OF MERCHANTABILITY SHALL BE LIMITED TO THE DURATION OF THE EXPRESSED WARRANTY.

Some states do not allow limitations on the duration of an implied warranty, so the above limitation may not apply to you. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you.

This warranty gives you specific legal rights and you may also have other rights which vary from state to state.

GENERAL INFORMATION

1. Water Ridd'r II pumps are equipped with an omnidirectional mechanical float switch. The pump will turn on automatically when the water level in the sump reaches 11½" from the bottom of the sump and automatically turns off when the water is pumped down to within 4¼" of the bottom of the sump. **The zip tie tethering the float cord must not be removed.**

2. The sump pit must be a minimum of 18" deep and 12" in diameter (except for 104 Drain Pump Series). The Water Ridd'r II requires a minimum diameter of 12" so that the float switch will operate without restriction. Any smaller diameter may restrict the switch operation resulting in pump failure.

INSTALLATION

1. For your safety, turn off the electrical power at the service entrance to avoid any possible electrical shock hazards.

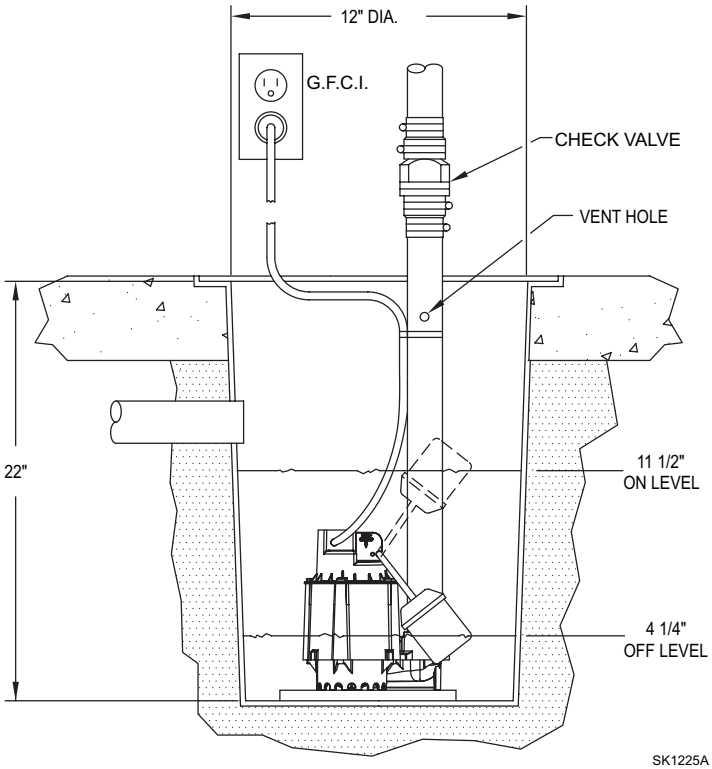
2. On a replacement installation, remove the existing pump from the sump by disconnecting the discharge pipe or hose from the old pump. Depending on how your old pump is installed, unscrew clamps and discard old corrugated hose, or unscrew galvanized or plastic pipe from pump discharge. If discharge pipe can not be removed easily, saw through the pipe about five feet above the pump discharge.

3. After removing the old pump, remove sediment, debris, and any standing water from the sump pit.

4. Place your pump in the sump and attach the discharge piping. Be sure that the pump is positioned so that the float switch moves freely without touching the wall of the sump or other obstructions. (See Fig.1)

5. Install a full flow Check Valve (See FM0217 for Zoeller Pump Company Unichecks) to prevent back flow which can cause the pump to cycle too frequently and result in wear and shortened motor life. Drill 3/16" vent hole in piping below the pit cover and check valve. Water stream will be visible from this hole during pump run periods. Reattach discharge piping as required.

6. Plug in pump and restore electrical power at the service entrance. Fill sump pit with water to check automatic switch operation.



PERFORMANCE

Your pump will operate effectively pumping clear, storm and drain waters. Although it will usually pass small particles suspended in water - grass, heavy mud, sand or pea gravel can clog the pump and reduce the pump's performance. This can usually be cleaned out by back-flushing on pump side of check valve with a garden hose through the discharge. The normal performance that can be expected is as follows:

Discharge Feet of head	5	10	15	18
Flow Gal. per min.	29	22	10	Shut-off Head