

Notice to Installer: Instructions must remain with installation.

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



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INSTALLATION INSTRUCTIONS

MODEL: N42, LM44, N44, N46

PREINSTALLATION CHECKLIST - ALL INSTALLATIONS

DATE INSTALLED:
MODEL NUMBER:

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.

<p>WARNING SEE BELOW FOR LIST OF WARNINGS</p>	<p>CAUTION SEE BELOW FOR LIST OF CAUTIONS</p>
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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 water.
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 to 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. These 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 tested for use in swimming pool or marine areas.
9. Prop65 Warning for California residents: Cancer and Reproductive harm-
www.P65Warnings.ca.gov.

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. These pumps are not designed or intended to be used to handle sewage or effluent.
3. This pump has been evaluated for use with WATER only.
4. Maximum continuous operating water temperature for standard model pumps must not exceed 104 °F (40 °C).
5. These pumps are not designed or intended to be used as a primary or backup sump pump.

Note: Pumps with the "CSA" mark are tested to CSA Standard C22.2 No. 108.

REFER TO WARRANTY ON PAGE 2.

PERFORMANCE

Your pump is designed to effectively pump all 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 pump performance. This can usually be cleaned out by backflushing with a garden hose through the discharge. The normal performance that can be expected is as follows:

MODEL	HP	GALLONS PER HOUR AT DISCHARGE HEIGHT ABOVE PUMPING LEVEL			SHUT-OFF HEAD
		5 ft	10 ft	15 ft	
42	1/6	900	660	360	20 ft
44	1/4	1800	1320	720	20 ft
46	1/2	3300	2820	2160	34 ft

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 two year from the date of purchase. Proof of purchase is required. Parts that fail within the warranty period, 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.

In instances where property damages are incurred as a result of an alleged product failure, the property owner must retain possession of the product for investigation purpose.

NOTE: Ratings based on 1-1/4" pipe with friction loss neglected. Using 3/4" garden hose adapter, performance will be reduced approximately 15%. This pump does not deliver enough pressure to operate lawn sprinklers properly.

OPERATION

1. Set pump on hard surface in water before starting.
2. Use the included garden hose adapter for 3/4" discharge line or disconnect the adapter to use a 1-1/4" discharge.
3. Plug power cord into properly grounded 115 volt AC power outlet. (See recommended grounding methods on front page). Will operate continuously whether partly or fully submerged. Submersible utility pumps are intended to pump water at temperatures up to 104 °F (40 °C).

For automatic model LM44 only:

4. When the pump senses that it is no longer pumping water, the pump will shut off automatically. The pump will then turn on every three minutes for 5 seconds and then off if it does not sense any water.
5. If water is sensed after the pump begins running, the pump will continue pumping until the pump senses that it is no longer pumping water.
6. Unplug the pump from the power output when not in use.
7. The pump is supplied with a 3/4" garden hose adapter. For use with plastic pipe, remove the adapter and install the desired 1-1/4" NPT fitting. DO NOT OVERTIGHTEN THE HOSE OR PLASTIC ADAPTER FITTING. Finger tight plus 1/2 turn is sufficient.

CAUTION Do not set pump directly on sand, dirt or mud. Sand or mud-choked pumps can be back-flushed clean.

CAUTION Do not handle or carry the pump by the power cord. Use the handle.

CAUTION Extended usage of the pump in a partially submerged or non-submerged situation may cause the pump to overheat due to lack of heat dissipation from the water. If this occurs, the pump will shut itself off until the motor cools to its normal temperature. Repeated overheating may cause damage to the pump.

MAINTENANCE

1. The motor housing of the pump is completely sealed and requires no service. Disassembly of the motor housing or alteration of the power cord voids all warranty.
2. The motor is a continuous duty type with an automatic thermal overload protector device.
3. The pump can run against a partially restricted discharge, but is designed to move large volumes of water with minimal back pressure.
4. If the pump becomes clogged, remove the screen and clean out the area.
5. Debris in the intake should be routinely removed from the bottom of the pump to prevent damage to the pump, which will void the warranty.
6. If necessary, remove the eight (8) screws holding the volute base to the motor housing and clean the volute.



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