

INSTALLATION INSTRUCTIONS

MODELS 3CEH, 433063

PUMP PERFORMANCE

Vertical Lift (Ft.)	Gal. per Hour
5	3000
10	2160
15	600
Shut off Head 16 Ft.	

PREINSTALLATION CHECKLIST - ALL INSTALLATIONS

- Inspect your pump.** Occasionally, products are damaged during shipment. If the unit is damaged, contact your dealer before using.
- Carefully read the literature** provided to familiarize yourself with specific details regarding installation and use. These materials should be retained for future reference.

 <div style="border: 1px solid black; padding: 5px; display: inline-block;">WARNING</div> SEE BELOW FOR LIST OF WARNINGS	 <div style="border: 1px solid black; padding: 5px; display: inline-block;">WARNING</div> SEE BELOW FOR LIST OF WARNINGS (CONTINUED)
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- WARNING** 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.
- WARNING** 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.
- WARNING** **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.
- WARNING** **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.
- WARNING** Installation and checking of electrical circuits and hardware should only be performed by a qualified licensed electrician.
- WARNING** FOR YOUR PROTECTION, ALWAYS DISCONNECT PUMP FROM ITS POWER SOURCE BEFORE HANDLING.
- WARNING** 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.

- WARNING** RISK OF ELECTRIC SHOCK. These pumps have not been investigated for use in swimming pool areas.
- WARNING** 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

- CAUTION** Check to be sure your power source is capable of handling the voltage requirements of the motor, as indicated on the pump name plate.
- CAUTION** 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.
- CAUTION** These pumps are not designed or intended to be used to handle sewage or effluent.
- CAUTION** Maximum continuous operating water temperature for standard model pumps must not exceed 77°F (25°C).
- CAUTION** This pump has been evaluated for use with WATER only.

NOTE: A BATTERY BACKUP SYSTEM IS RECOMMENDED TO PREVENT FLOODING AND/OR PROPERTY DAMAGE IN THE EVENT OF MECHANICAL MALFUNCTION OR POWER OUTAGE.

NOTE: Pumps with the "UL/CSA" mark are tested to UL standard UL778 and certified to CSA standard C22.2 No. 108.

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

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LIMITED WARRANTY

This product is warranted for one year from the date of purchase or two years from the date of manufacture, whichever occurs first. Subject to the conditions hereinafter set forth, the manufacturer will repair or replace to the original consumer, any portion of the product which proves defective due to defective materials or workmanship. To obtain warranty service, contact the dealer from whom the product was purchased. The manufacturer retains the sole right and option to determine whether to repair or replace defective equipment, parts or components. Damage due to conditions beyond the control of the manufacturer is not covered by this warranty.

THIS WARRANTY WILL NOT APPLY: (a) To defects or malfunctions resulting from failure to properly install, operate or maintain the unit in accordance with printed instructions provided; (b) to failures resulting from abuse, accident or negligence or use of inappropriate chemicals or additives in the water; (c) to normal maintenance services and the parts used in connection with such service; (d) to units which are not installed in accordance with normal applicable local codes, ordinances and good trade practices; and (e) the unit is used for purposes other than for what it was designed and manufactured.

RETURN OF WARRANTED COMPONENTS: Any item to be repaired or replaced under this warranty must be returned to the manufacturer at Kendallville, Indiana or such other place as the manufacturer may designate, freight prepaid.

THE WARRANTY PROVIDED HEREIN IS IN LIEU OF ALL OTHER EXPRESS WARRANTIES, AND MAY NOT BE EXTENDED OR MODIFIED BY ANYONE. ANY IMPLIED WARRANTIES SHALL BE LIMITED TO THE PERIOD OF THE LIMITED WARRANTY AND THEREAFTER ALL SUCH IMPLIED WARRANTIES ARE DISCLAIMED AND EXCLUDED. THE MANUFACTURER SHALL NOT, UNDER ANY CIRCUMSTANCES, BE LIABLE FOR INCIDENTAL, CONSEQUENTIAL OR SPECIAL DAMAGES, SUCH AS, BUT NOT LIMITED TO DAMAGE TO, OR LOSS OF, OTHER PROPERTY OR EQUIPMENT, LOSS OF PROFITS, INCONVENIENCE, OR OTHER INCIDENTAL OR CONSEQUENTIAL DAMAGES OF ANY TYPE OR NATURE. THE LIABILITY OF THE MANUFACTURER SHALL NOT EXCEED THE PRICE OF THE PRODUCT UPON WHICH SUCH LIABILITY IS BASED.

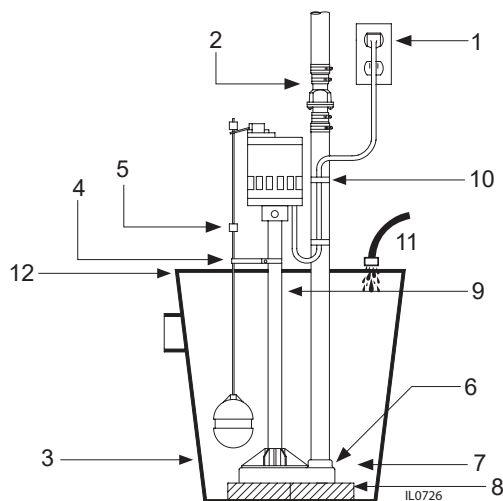
This warranty gives you specific legal rights, and you may have other rights which vary from state to state. Some states do not allow limitations on duration of implied warranties or exclusion of incidental or consequential damages, so the above limitations may not apply to you.

In those instances where damages are incurred as a result of an alleged pump failure, the Homeowner must retain possession of the pump for investigation purposes.

TYPICAL COLUMN SUMP PUMP INSTALLATION

1. Electrical wiring must be in accordance with the National Electrical Code and all other applicable state and local electrical requirements.
2. Install combination check valve and union preferably just above the sump pit to allow easy removal of the pump for cleaning or repair.
3. Minimum pit size recommended is 18" diameter and 22" deep.
4. **WARNING: Risk of flooding. Be sure that float rod is vertical and can move up and down freely. If float is angled or binds, pump may not start, allowing flooding to occur.**
5. If the lower rod stop is positioned approximately 8" from the top of the rod, the pump will automatically cycle on at a water level about 10 -12" and off approximately. For faster cycling, move lower rod stop closer to switch lever arm.
6. Thread pipe in discharge of pump. Use care not to cross thread or strip the threads. Use a full-size discharge pipe.
7. Clean basin free of debris after installation.
8. Install blocks or bricks under pump to provide a settling basin.
9. Place pump in center of sump pit.
10. Securely tape or clamp power cord to discharge pipe clear of float mechanism.
11. Check for proper ON-OFF switch operation by running water into the sump pit.
12. All installations require a proper basin cover to prevent debris from falling into the basin and to minimize accidental injury.

CAUTION:
CHECK ROD AND FLOAT FOR FREE SWITCH OPERATION
TO ENSURE THAT PUMP WILL TURN ON AND OFF.



SERVICE CHECKLIST TROUBLESHOOTING CHART



UNPLUG PUMP BEFORE HANDLING PUMP OR PIPING

CONDITION	COMMON CAUSES
A. Unit will not start	1. Check circuit protection.
	2. Check electrical current supply to make sure it is the same as on the pump specification plate
	3. Check rod and float for free ON-OFF switch operation. Readjust rod stops or guide if necessary
	4. Check ON-OFF switch operation by running water into basin
B. Unit starts or sounds like it is running but will not pump	1. Clear intake and discharge. Run to test operation.
	2. Check to see that vertical lift of installation is within pump capacity. (Refer to pump capacity chart on page 1).
	3. Check impeller for proper rotation. (Clockwise when viewed from motor end).
C. Unit stops and starts excessively	1. Install a proper check valve to prevent back flow from piping.
	2. Check dimensions of basin as listed on previous page, Item 3.