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



FM2113
0320
Supersedes
1019

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MODEL: _____
DATE CODE: _____
DATE INSTALLED: _____

PREASSEMBLED DRAIN PUMP SYSTEM

MODELS 105 and 132 INSTALLATION INSTRUCTIONS

Notice to Installer: Instructions must remain with installation.

1. Inspect your unit. Occasionally, products are damaged during shipment. If the unit is damaged, contact your dealer before using. **DO NOT** remove the test plugs from the pump.
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. To reduce the risk of electrical shock, a properly grounded receptacle of grounding type must be installed and protected by a ground fault circuit interrupter (GFCI) and in accordance with National Electrical Code and local codes. **(SEE WARNING BELOW).**
2. Make certain that the 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 end were to fall into the sump.
3. 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 electrician.
4. For Added Safety. Pump must be connected to a 3-prong grounded outlet interrupter device (ground fault circuit interrupter).
5. **FOR YOUR PROTECTION, ALWAYS DISCONNECT PUMP FROM ITS POWER SOURCE BEFORE HANDLING.** Single phase 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.** To reduce the risk of electrical shock, a properly grounded receptacle of grounding type must be installed and protected by a ground fault circuit interrupter (GFCI) in accordance with national electrical code and local codes.
6. Installation and checking of electrical circuits and hardware should only be performed by a qualified licensed electrician.
7. Risk of electric shock - These pumps have not been investigated for use in swimming pool areas.
8. Prop65 Warning for California residents:

WARNING : Cancer and Reproductive Harm-
www.P65Warning.ca.gov.

CAUTION

SEE BELOW FOR LIST OF CAUTIONS

1. Check to be sure your power source is adequate for handling the voltage requirements of the motor, as indicated on the pump or basin plate.
2. 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.
3. All plumbing (discharge and vent lines) must be installed to meet local codes. Unit must be vented. Some states require this unit to be installed by a qualified licensed plumber. **DO NOT USE AN AUTOMATIC PLUMBING VENT DEVICE SIMILAR TO A "PRO-VENT".**
4. Repair and service should be performed by Zoeller Pump Company Authorized Service and warranty center only.
5. **CHECK VALVE MUST BE USED TO REDUCE UNNECESSARY CYCLING OF PUMP.**
6. Dewatering pumps are not designed or intended for handling raw sewage.
7. Maximum operating temperature for 132 Drain Pumps must not exceed 110 °F (43 °C). Model 105 rated for 130 °F (54 °C).
8. For health reasons, do not unplug, turn off, or disable pump and use pump tank system as a way to fill up a sink or laundry tray, etc.

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.

P/N 015765

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 nature; 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.

Service Checklist



▲ WARNING

ELECTRICAL PRECAUTIONS- Before servicing a pump, always shut off the main power breaker and then unplug the pump

- making sure you are not standing in water and wearing insulated protective sole shoes. Under flooded conditions, contact your local electric company or a qualified licensed electrician for disconnecting electrical service prior to pump removal.

▲ WARNING

Submersible pumps can become pressurized under normal operating conditions — allow 2-1/2 hours after disconnecting before attempting service.

CONDITION	COMMON CAUSES
A. Pump will not start or run.	Check fuse, low voltage, overload open, open or incorrect wiring, open switch, impeller or seal bound mechanically, defective capacitor or relay when used, motor or wiring shorted. Float assembly held down. Switch defective, damaged, or out of adjustment.
B. Motor overheats and trips overload or blows fuse.	Incorrect voltage, negative head (discharge open lower than normal) impeller or seal bound mechanically, defective capacitor or relay, motor shorted.
C. Pump starts and stops too often.	Float switch tether length too short (model 104 only), float too tight on rod, check valve stuck, or none installed in long distance line, overload open, switch defective.
D. Pump will not shut off.	Debris under float assembly, float or float rod bound by basin sides or other, switch defective, damaged or out of adjustment.
E. Pump operates but delivers little or no water.	Check strainer housing, discharge pipe, or if check valve is used, the vent hole must be clear. Discharge head exceeds pump capacity. Low or incorrect voltage. Incorrect motor rotation. Capacitor defective. Incoming water containing air or causing air to enter pumping chamber.
F. Drop in head and/or capacity after a period of use.	Increased pipe friction, clogged line or check valve. Abrasive material and adverse chemicals could possibly deteriorate impeller and pump housing. Check line. Remove base and inspect.
G. If tank or fittings leak.	Carefully tighten pipe joints (use pipe dope) and screws. Check gasket location, tighten lid evenly. Do not over tighten fittings or screws.

If the above checklist does not uncover the problem, consult the factory - Do not attempt to service or otherwise disassemble pump. Service must be by Zoeller Authorized Service Stations.

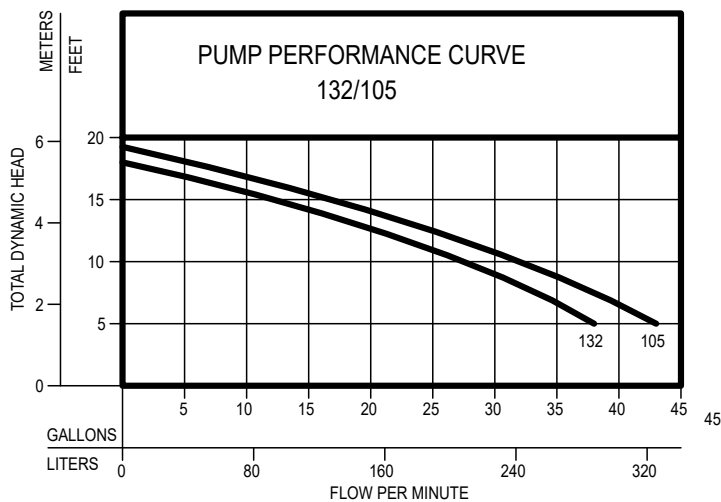
Helpful Hints For Easy Installation

1. Read all instructions before beginning installation.
2. Be certain that basin is on a firm level surface.
3. Do not use an automatic plumbing vent device.
4. Always use a check valve on the discharge line.
5. Test operation of pump per STEP 3.
6. Always provide some means to disconnect basin from plumbing for maintenance purposes.
7. Run unit at least once a month to verify proper operation.
8. The model number and date code can be found on the lid warning label.
9. Plug pump into a properly grounded GFCI receptacle.

Do's And Don't's For Installing A Unit

1. **DO** read all installation material included with the pump.
2. **DO** inspect unit for any visible damage caused by shipping. Contact dealer if unit appears to be damaged.
3. **DO** always disconnect pump from power source before handling. **DO** always connect to a separately protected and properly grounded ground fault protected circuit. **DO NOT** ever cut, splice or damage power cord. **DO NOT** carry or lift pump by its power cord. **DO NOT** use an extension cord.
4. **DO NOT** use a discharge pipe smaller than the pump discharge size.
5. **DO** test pump immediately after installation to be sure that the system is working properly.
6. **DO** review all applicable local and national codes and verify that the installation conforms to each of them.

Performance Characteristics



MODELS		132		105	
Feet	Meters	Gal.	Liters	Gal.	Liters
5	1.5	38	144	43	163
10	3.0	30	114	34	129
15	4.6	14	53	19	72
Shut-off Head:		18 ft. (5.5m)		19.25 ft. (5.9m)	

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STEP 1

Determine Installation Configuration

NOTE: This preassembled unit is designed for use with an external trap.

Figure 1 is a typical configuration for installation of the drain system. The actual configuration will vary depending on your cabinet and sink configuration.

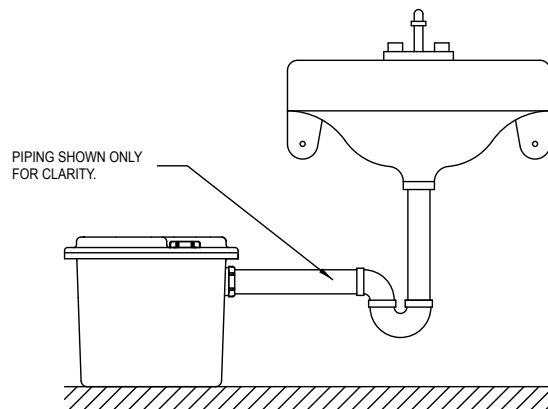


Figure 1
STANDARD INSTALLATION

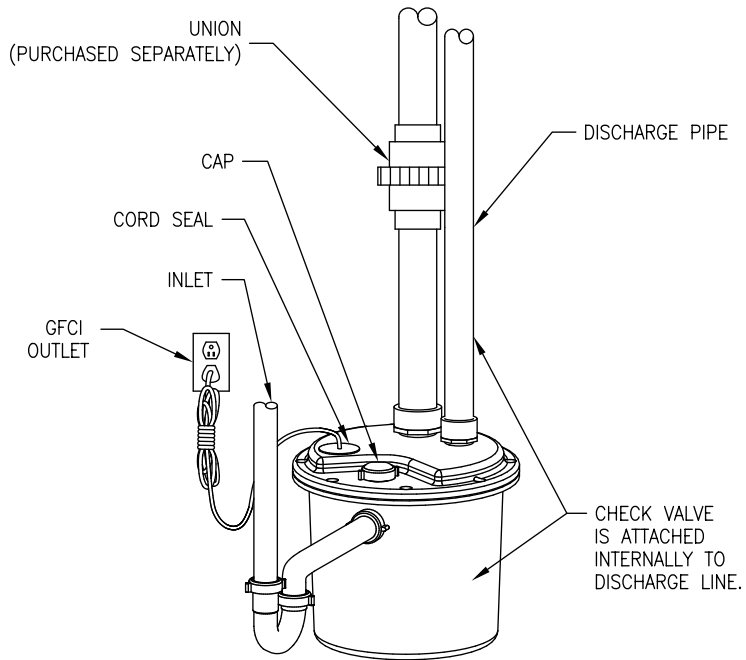
SK2001

STEP 2

Final Assembly

NOTE: External plumbing configuration will vary depending on the location of basin, location of main stack and available space.

Place the basin assembly in its final position and complete plumbing. Secure all connections shown in Figure 2.



STANDARD INSTALLATION

Figure 2

SK2832

STEP 3

Initial Testing of Drain Basin System

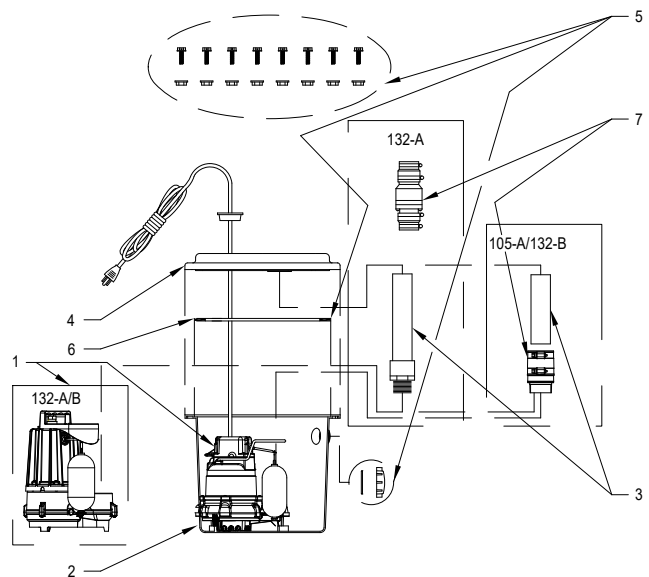
1. Plug the cord into a properly grounded GFCI receptacle.
2. Fill the basin with 2-3 gallons of water and let sit for 3-4 minutes to enable the environmentally safe peanuts to begin dissolving.
3. Slowly fill the basin with water.
4. Check all plumbing for leaks as the basin fills.
5. Verify that the pump starts and stops.
6. Check the discharge line for leaks as the pump empties the basin.
7. Repeat steps 2 through 6 as necessary to ensure proper operation.
8. If problems persist, refer to the troubleshooting guide located on page 2 of this manual.

Illustrated Parts Breakdown

ITEM	DESCRIPTION	QTY	132-A 08/02 thru 12/10	132-B 01/11 thru Current	105-A 10/19 thru Current
1	Replacement pump	1	72-0001	72-0001	156805
2	Basin	1	013017	013017	013017
3	Discharge pipe	1	013732	150861	156360
4	Basin cover	1	013018	013018	013018
5	Hardware pack	1	152620	152620	152620
6	Basin seal	1	152607	152607	152607
7	Check valve	1	30-0181	019768	019768

Notes:

1. Hardware pack consists of (8) 1/4" - 20 x 1-1/4" long hex washer stainless steel machine screws, (8) #1/4" - 20 hex flange stainless steel hex nuts along with (1) pipe cap, (1) O-ring, and (1) basin seal.



SK2833