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SECTION: 2.50.060
FM1663
1026
Supersedes
0324

ZOELLER® PUMP COMPANY

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

SmartPak®

ALTERNATOR SYSTEMS

SmartPak® Plus Residential Alternator System

FEATURES

- Alternates two automatic pumps up to 1/2 HP, 12 amps each, 115 V single phase (SmartPak Plus is now compatible with Shark Series Grinder 802 only. SmartPak Plus units with production dates prior to 2/1/2024 are NOT to be used with models with LED plug ends.)
- Extends pump life
- Compact design easily mounts in confined spaces and is equipped with cutting-edge electronics
- Circuit fault protection
- Specially designed for humid areas like basements
- Universal connection for alarm switch replacement
- Auxiliary output contacts (normally open) for remote alarm connection.
- Connect to input terminals on the Z Control® APak® and receive alarm notifications via email, text, and app push through the Z Control® Cloud
- Built-in, rechargeable battery
- 9' (2.7 m) power cord
- 2 year warranty

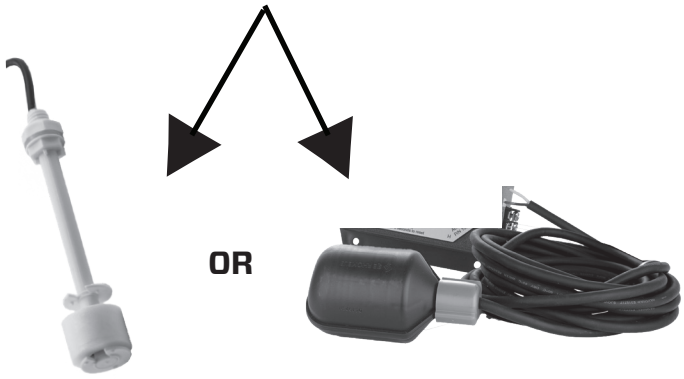
ALARMS

- Multiple alarm modes will alert user to potential problems and protect property by switching to the other pump when necessary.
  - High water alarm operation
  - Loss of power alarm operation
  - Continuous pump run alarm operation
  - Breaker tripped alarm operation
  - Pump failure alarm operation
- Built-in rechargeable battery will operate the alarm and LED lights for a limited time during power outage.
- Button for Silence and Reset

INDICATOR LIGHTS

- Solid green LED lights for Pump 1, Pump 2 and Power
- Flashing red LED lights for alarm conditions





10-0804 **OR** **10-5858**

Note: ***Zoeller recommends the use of SmartPak Plus model 10-5858 for sewage applications.***

The corresponding part numbers for which model offers which float. 10-0804 for residential alternator with reed switch. 10-5858 for mechanical float switch.

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INSTALLATION

1. Unpack unit and inspect for damage.
2. Review Figure 1 for a typical installation.
3. Follow instructions included with each pump for proper pump installation. Test pump on and off cycle several times to ensure proper pump cycling.
4. Mount unit on wall within reach of pumps' cords.
5. Mount the alarm switch on one of the discharge pipes a couple inches above the on level of the pumps. If possible, this should be below the inlet to the pit.
6. Connect the alarm float switch cord to the High Water connection on the side of the SmartPak Plus.
7. Plug the power cord into a properly grounded outlet.
8. Check system for proper operation as outlined below.



⚠ WARNING All installations must be in accordance with the National Electric Code, and any other applicable state and local electrical requirements.

⚠ WARNING Do not remove ground pin. Severe electrical shock could occur.

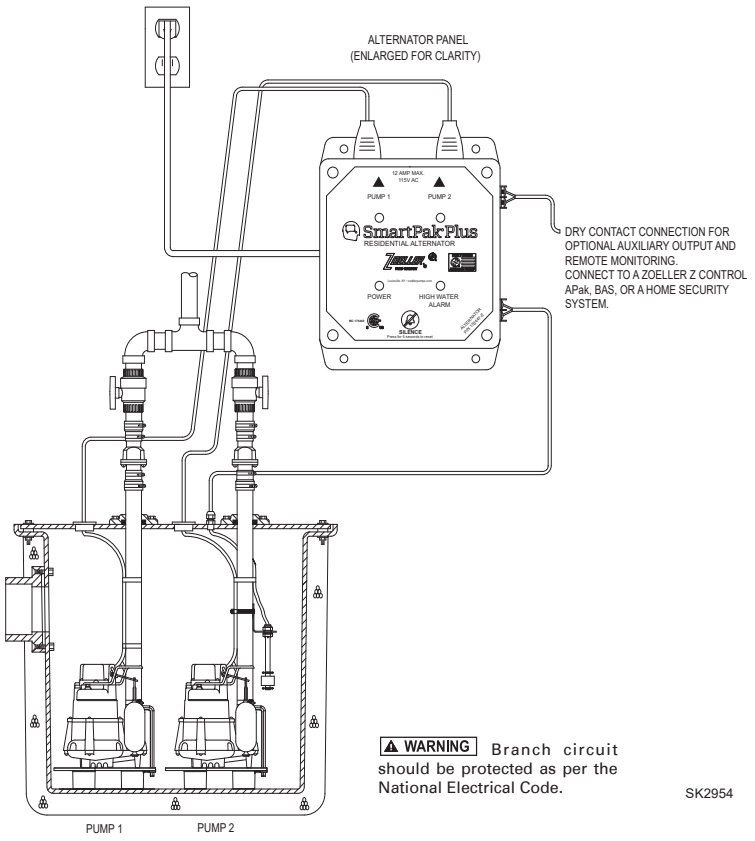
⚠ WARNING Not to be used with model 63 or model 95 pumps, or with any model grinder pump.

NORMAL OPERATION

Upon first plugging the SmartPak Plus into AC power, the four LED lights will illuminate briefly in red, then green. The LED lights will turn off, then the Pump 1 and Power LED lights will illuminate green. When water rises to the level that both pumps' switches are on, the unit will send power to Pump 1 until its switch turns off. The Pump 2 LED will then illuminate indicating that power will be provided to Pump 2 once both pumps' switches are once again on. The control unit will continue to alternate between pumps 1 and 2, in this manner, until an alarm is detected. The Power LED remains green as long as AC power is available.

Note: Pumps need to be positioned side by side and of the same type and activation as shown in Figure 1 for the system to work properly. Applications in which the pumps floats are not equal or one pump activating higher than the other will result in alarming and improper operation of the alternator. Please read the below Alarm operations for best results.

Figure 1: Typical Installation



ALARM OPERATION

There are five modes of alarm operation, as follows:

1. High Water Alarm Operation

If the sump's water level reaches the level of the high-water float switch, the alarm will sound, dry contacts will close and the unit will automatically alternate power to the other pump. Once the water level drops below the off level of the high-water float switch, the alarm will continue to sound and the light will flash red. Pressing the Silence/Reset button on the front of the unit will quiet the alarm and leave the LED illuminated. Once the alarm event has ended, pressing the Silence/Reset button for five seconds or longer will reset the alarm and the light will no longer be illuminated. If power is out and a high-water condition is present, the Power LED flashes red and the alarm chirps every three seconds. (The pump will not run while unit is on battery power.)

2. Loss of Power Alarm Operation

If AC power is lost, the alarm and LED lights operate until internal battery is dead or AC power is restored. The Power LED flashes red and alarm chirps every 12 seconds, and the dry contacts close. The red LED and alarm will clear themselves if power is restored.

3. Continuous Pump Run Alarm Operation

If either pump runs continuous for over 5 minutes, the SmartPak Plus will alternate to the other pump, the LED for the pump flashes red, the audible alarm will sound, and dry contacts close. The red LED and alarm will clear themselves if the condition is remedied. After five consecutive faults, the alarm will remain on and disable the pump until it is manually reset.

4. Breaker Tripped Alarm Operation

If the active pump draws more than 14 amps continuously the alternator will switch to the other pump. After five consecutive cycles where a pump draws more than 14 amps, the alternator will disable that pump. If the active pump has an instantaneous current draw of more than 30 amps for two consecutive cycles the alternator disables the pump. Either condition will cause the red LED to flash for the failed pump, sound the alarm, and the dry contacts close. The SmartPak Plus will not attempt to use the problematic pump again until the alarm is reset.

5. Pump Failure Alarm Operation

If the SmartPak Plus detects that one of the pumps does not run, after five consecutive cycles of the high-water alarm tripping, that pump's LED flashes red, the alarm sounds and the dry contacts close.

SILENCE/RESET BUTTON

Pressing the Silence/Reset button silences the audible alarm. Additional alarm conditions will sound the alarm again. Pressing and holding the Silence/Reset button for five seconds will reset any faults.

BATTERY

The SmartPak Plus has a rechargeable nickel-metal-hydride battery installed in the unit. The charging circuit "exercises" the battery to extend the life of the battery and reduce power consumption. Battery is not replaceable in the field.

NOTES:

- Use of a working high-water alarm switch, properly connected to the SmartPak Plus, is required in order to allow for emergency pump alternation.
- The SmartPak Plus does not provide power to AC pumps during a power loss.
- Almost any standard, normally open pump switch can be substituted for the included high-water alarm float switch.
- The SmartPak Plus will not operate the pumps at the same time.
- The SmartPak Plus is a pump alternating device. It is not intended to bypass or augment the pumps' switches. Working switches are required for proper pump operation.

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