

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

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# ZOELLER ON-SITE WASTEWATER PRODUCTS

## ZOELLER SEPTIC SYSTEM FILTERS



**IMPROVED!**

### Zoeller 5040 Filtered STEP System

## FOR SEPTIC TANK APPLICATIONS

The Zoeller Filtered STEP System is designed as the most economical and reliable solution to an On-Site or Low Pressure Sewer pumping requirement. When the effluent must be pumped up hill or for enhanced flow, the Filtered STEP System is the answer without the added cost of an extra pumping chamber. The Filtered STEP System fits into almost any septic tank, therefore a separate pumping chamber is not required. The Zoeller STEP System filters the effluent before it's pumped to protect your drainfield and keep solids in the tank.

#### APPLICATION:

Low cost and high quality option for On-Site enhanced pumped septic systems, repairs to failed septic systems where gravity flow is not possible, sand filters, pressure pipe dosing systems, other alternatives that would require a separate pump chamber, cluster or pressure sewer applications.

#### SPECIFICATIONS:

##### PUMPS:

- Model 51 - 17.0 gpm max.
- Model 142 - 18.4 gpm max.

##### FILTER AREA:

- 528 Linear feet of 1/16" filtration.
- 396 Square inches of open area.

#### MATERIALS:

- Tank - polyethylene.
- WW Filters - polypropylene.
- All components engineered to withstand septic tank environment.
- Model 51 - Cast iron, .3 HP, 115V, 1 Phase, 9.5 amps submersible pump. Corrosion resistant powder coated epoxy finish.
- Model 142 - Cast iron, 1 HP, 115V, 1 Phase, 13.0 amps submersible pump. Corrosion resistant powder coated epoxy finish.
- 1½" discharge.

#### INSTALLATION:

Install per local codes and National Electrical Code.  
See FM1551 for installation instructions and service parts.

#### EASY MAINTENANCE:

Unit has union and flexible piping with a filter handle for easy removal. Service as needed. Larger filter surface area means longer service intervals.

#### LONG LIFE:

Superior quality components mean a superior quality system. Easy to install, maintain, and operate. Designed for long-life service.

- Custom heights available in 49" and 63". Consult Factory for details.



ALL ZOELLER ON-SITE WASTEWATER PRODUCTS MUST BE INSTALLED IN ACCORDANCE WITH LOCAL AND/OR STATE PLUMBING AND/OR HEALTH DEPARTMENT CODES AND/OR THE NATIONAL ELECTRICAL CODE (NEC).

*Distributed by:*



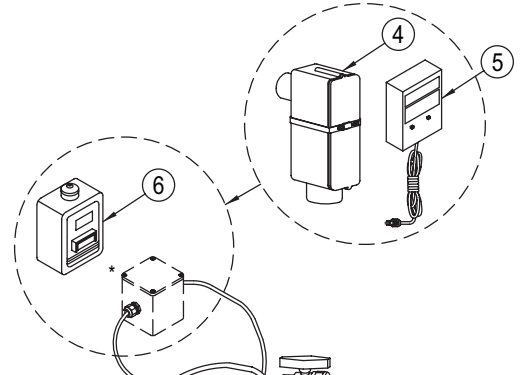


# Pre-packaged Systems (unassembled)

## MODEL WM51 SYSTEMS

### Automatic Pump with fully integrated control

- P/N 5040-0002 Automatic WM51 package (1)
- P/N 5040-0003 Automatic WM51 w/ alarm package (1, 3, 6)
- P/N 5040-0004 Automatic WM51 w/ check valve package (1, 2)
- P/N 5040-0005 Automatic WM51 w/ alarm and check valve package (1, 2, 3, 6)
- P/N 5040-0018 Automatic WM51 w/ Qwik Box (1, 4)
- P/N 5040-0019 Automatic WM51 w/ Qwik Box / alarm system (1, 3, 4, 5)
- P/N 5040-0020 Automatic WM51 w/ Qwik Box and check valve package (1, 2, 4)
- P/N 5040-0021 Automatic WM51 w/ Qwik Box / alarm system and check valve package (1, 2, 3, 4, 5)

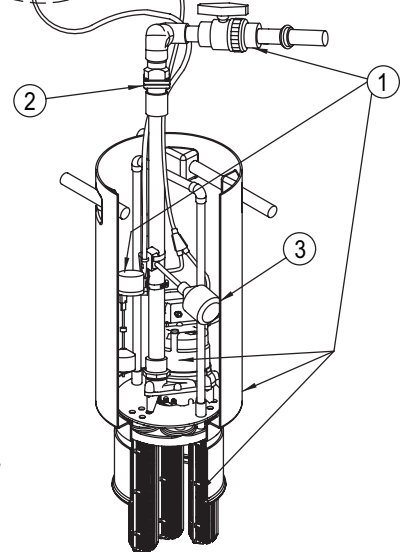


## MODEL WM142 SYSTEMS

### Automatic Pump with fully integrated control

- P/N 5040-0006 Automatic WM142 package (1)
- P/N 5040-0007 Automatic WM142 w/ alarm package (1, 3, 6)
- P/N 5040-0008 Automatic WM142 w/ check valve package (1, 2)
- P/N 5040-0009 Automatic WM142 w/ alarm and check valve package (1, 2, 3, 6)
- P/N 5040-0022 Automatic WM142 w/ Qwik Box (1, 4)
- P/N 5040-0023 Automatic WM142 w/ Qwik Box / alarm system (1, 3, 4, 5)
- P/N 5040-0024 Automatic WM142 w/ Qwik Box and check valve package (1, 2, 4)
- P/N 5040-0025 Automatic WM142 w/ Qwik Box / alarm system and check valve package (1, 2, 3, 4, 5)

\*ORDER J-BOX OR PREWIRED CONDUIT W/J-BOX SEPARATELY.



#### Systems Include:

- Filter and pump chamber
- WM51 or WM142 model submersible pump
- 1¼" flexible discharge pipe assembly
- Alarm assembly and float (where applicable)
- Qwik Box (where applicable)
- Junction box and/or prewired conduit ordered separately - see back page.

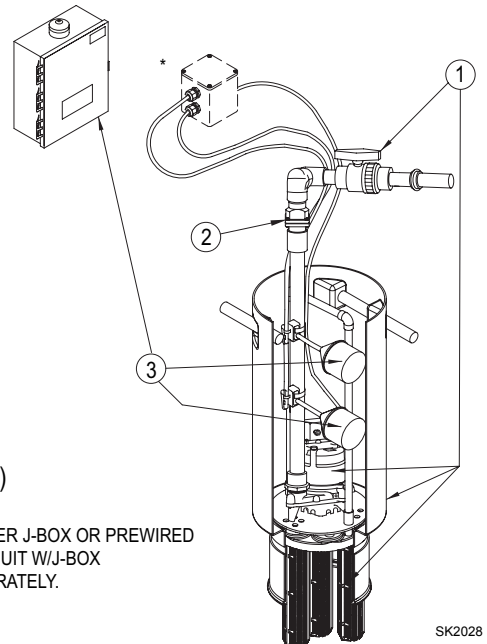
**Note: All on/off alarm settings must comply with all state and local codes.**

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## MODEL N51 SYSTEMS

### Nonautomatic pump for control panels

- P/N 5040-0010 nonautomatic N51 package (1)
- P/N 5040-0011 nonautomatic N51 w/ control panel package (1, 3)
- P/N 5040-0012 nonautomatic N51 w/ check valve package (1, 2)
- P/N 5040-0013 nonautomatic N51 w/ control panel and check valve package (1, 2, 3)



## MODEL N142 SYSTEMS

### Nonautomatic pump for control panels

- P/N 5040-0014 nonautomatic N142 package (1)
- P/N 5040-0015 nonautomatic N142 w/ control panel package (1, 3)
- P/N 5040-0016 nonautomatic N142 w/ check valve package (1, 2)
- P/N 5040-0017 nonautomatic N142 w/ control panel and check valve package (1, 2, 3)

#### Systems Include:

- Filter and pump chamber
- N51 or N142 model submersible pump
- 1¼" flexible discharge pipe assembly
- Time dosing single pump control panel
- 2 variable level float switches
- Junction box and/or prewired conduit ordered separately - see back page.

\*ORDER J-BOX OR PREWIRED CONDUIT W/J-BOX SEPARATELY.

**Note: It is the responsibility of the installer & designer to assure all state and local codes are met.**

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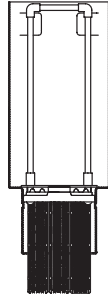
# Custom Applications

The following is intended to aid selection of the components needed for the widest variety of systems. Prepackaged systems (unassembled) are also available for the most commonly selected systems.

## (A) Filter and Pump Chamber

Includes filter pak with handle and pump chamber preassembled at factory.

- P/N 5040-0001 Filter and pump chamber -Wgt. 20.0 lbs.

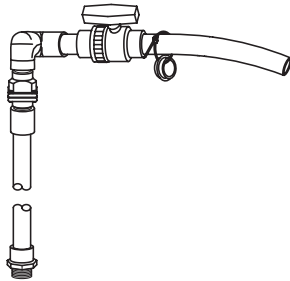


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## (C) Discharge Assembly

Zoeller discharge pipe assembly consists of a reducer, schedule 40 PVC piping, elbows, flexible PVC pipe, union/ ball valve, pipe seal, and 1 1/4" flexible stub to extend outside of riser. Preassembled and welded at the factory.

- P/N 170-0083 - 1 1/4" diameter - Wgt. 4.0 lbs.
- P/N 170-0084 - 1 1/4" diameter, with check valve - Wgt. 4.0 lbs.



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## (B) Pump

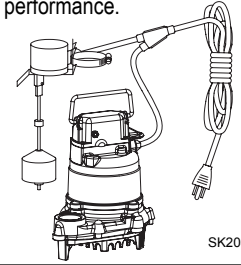
Pump should be selected based on pump performance.

### 115V Automatic Units (WM)

- P/N 51-0005 - Wgt. 28 lbs.
- P/N 142-0005 - Wgt. 55 lbs.

### 115V Nonautomatic Units (N)

- P/N 51-0002 - Wgt. 27 lbs.
- P/N 142-0002 - Wgt. 54 lbs.



SK2030

## (D) Control/Alarm

A high water alarm is recommended and most codes require one. For automatic pumps use the following alarm box. For nonautomatic pumps, the alarm is integral with control.

### Qwik Box Control/Alarm System

- P/N 10-0579 Qwik Box, 115V - Wgt. 3.0 lbs.
- P/N 10-1359 Qwik Box, 115V w/ alarm (indoor) - Wgt. 7.0 lbs.

### Indoor/Outdoor Alarm

- P/N 10-0623 Alarm System with Float - Wgt. 5.0 lbs.

### Controls

- P/N 10-0125 Simplex Panel - Wgt. 11.5 lbs.
- P/N 10-0684 Time Dosing 115V - Wgt. 20 lbs.

Alarms and controls are prepackaged with variable level float switches.

Note: All variable level float switches in this section are mechanically activated and do not contain mercury.

## (E) Prewired Conduit /Junction Box\*

Prewired conduits are designed to make the electrical wiring easier. Assemblies come with the correct number of wires of the correct gauge for the application. Junction box is included if needed.

### For automatic or float switch control - with or without alarm:

- P/N 5100-0011 25' long w/J-Box (3 cord seals, 2 plugs) - Wgt. 10.0 lbs.
- P/N 5100-0012 35' long w/J-Box (3 cord seals, 2 plugs) - Wgt. 14.0 lbs.
- P/N 5100-0013 50' long w/J-Box (3 cord seals, 2 plugs) - Wgt. 18.0 lbs.
- P/N 5100-0014 75' long w/J-Box (3 cord seals, 2 plugs) - Wgt. 26.0 lbs.
- P/N 5100-0015 100' long w/J-Box (3 cord seals, 2 plugs) - Wgt. 33.0 lbs.

### For Qwik Box pump control - with or without alarm:

- P/N 5100-0016 25' long -Wgt. 10.0 lbs.
- P/N 5100-0017 35' long -Wgt. 12.0 lbs.
- P/N 5100-0018 50' long -Wgt. 16.0 lbs.
- P/N 5100-0019 75' long -Wgt. 24.0 lbs.
- P/N 5100-0020 100' long -Wgt. 31.0 lbs.

### For control panels and nonautomatic pumps:

- P/N 5100-0001 25' long w/J-Box (4 cord seals, 1 plug) -Wgt. 10.0 lbs.
- P/N 5100-0002 35' long w/J-Box (4 cord seals, 1 plug) -Wgt. 14.0 lbs.
- P/N 5100-0003 50' long w/J-Box (4 cord seals, 1 plug) -Wgt. 18.0 lbs.
- P/N 5100-0004 75' long w/J-Box (4 cord seals, 1 plug) -Wgt. 26.0 lbs.
- P/N 5100-0005 100' long w/J-Box (4 cord seals, 1 plug) -Wgt. 33.0 lbs.

### NEMA 4X Junction Boxes:

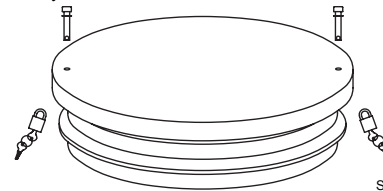
Select junction box based on number of cords present in riser.

- P/N 10-1030 4"L x 4"W x 2"H (2 UF & 2 round cord seals-unassembled)-Wgt. 1.0 lb.
- P/N 10-0776 4"L x 4"W x 2"H (3 round cord seals, 3/4" hub-unassembled)-Wgt. 1.0 lb.
- P/N 10-1399 4"L x 4"W x 4"H (4 round cord seals, 1 1/2" hub-unassembled)-Wgt. 2.0 lbs.

\* Junction box not required w/ Qwik Box system.

## (F) Access Risers

An access riser is required on the outlet of the septic tank for proper installation of the STEP system. Many codes require a locking latch also to prevent tampering with the system.



SK1838B

### 24" Access Riser

- P/N 172-0003 24" dia x 1' long - Wgt. 32 lbs.
- P/N 172-0044 24" dia x 18" long - Wgt. 39 lbs.
- P/N 172-0004 24" dia x 2' long - Wgt. 46 lbs.
- P/N 172-0005 24" dia x 3' long - Wgt. 60 lbs.

### 30" Access Riser

- P/N 172-0029 30" dia x 1' long - Wgt. 59 lbs.
- P/N 172-0045 30" dia x 18" long - Wgt. 75 lbs.
- P/N 172-0030 30" dia x 2' long - Wgt. 92 lbs.
- P/N 172-0031 30" dia x 3' long - Wgt. 125 lbs.
- P/N 172-0019 Adhesive - quart- Wgt. 1.0 lb.
- P/N 172-0020 Lockable Latch asy - Wgt. 1.0 lb.

Zoeller Effluent Turbine STEP System has 6 basic components:

- (A) Filter and pump chamber \_\_\_\_\_
- (B) Pump \_\_\_\_\_
- (C) Discharge Assembly \_\_\_\_\_
- (D) Control / Alarm System\* \_\_\_\_\_
- (E) Prewired Conduit/Junction Box\* \_\_\_\_\_
- (F) Access Riser \_\_\_\_\_