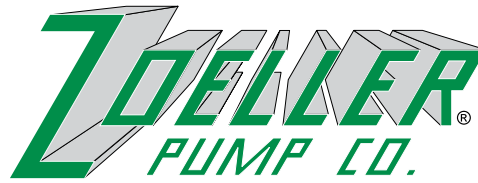


Product information presented here reflects conditions at time of publication. Consult factory regarding discrepancies or inconsistencies.



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# ZOELLER ON-SITE WASTEWATER PRODUCTS

## Zoeller Effluent Turbine Filtered STEP System

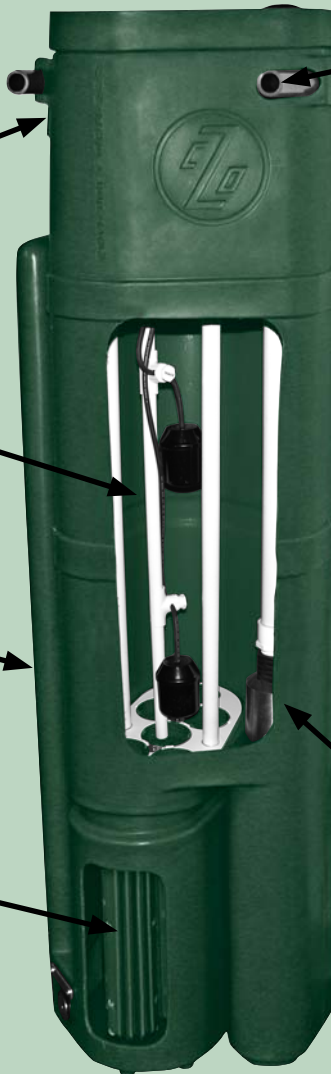
### SIMPLEX OR DUPLEX

Designed for simplex and duplex (2 pumps) applications in a single polyethylene pump vault. All components selected to withstand the septic tank environment.

Exceptionally large unobstructed area for float placement reduces risk of hang ups.

Inlet is available predrilled from the factory or blank for field installation.

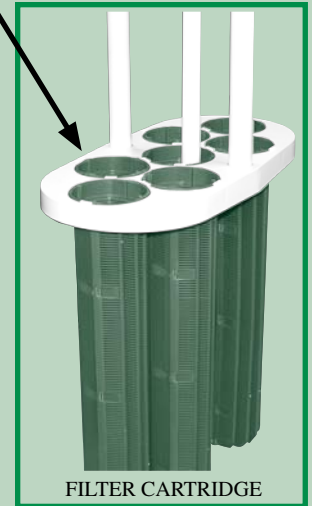
Low seated filter cartridge provides more vertical room within the vault, allowing for greater versatility when setting floats.



Pipe hangers for suspended applications or flat bottom for setting on tank floor.

Over 924 linear feet of 1/16" filtration. Large filter area protects effluent pumps in even the dirtiest septic tank. Deep pleated design is easy to clean.

56"



FILTER CARTRIDGE

Covered by US Patent No. 5,985,139; others pending.

Large selection of effluent turbine pumps. With over 65 years experience, Zoeller's effluent turbine pumps ensure a quality matched system.

fits in any 18" septic tank opening



- Custom heights available in 51", 60", 66", 72", 78", 84", 90" and 96".
- Pumps available in 10, 19, 27, 35, 55 and 85 GPM models - see FM2091.

# Prepackaged Systems (unassembled)

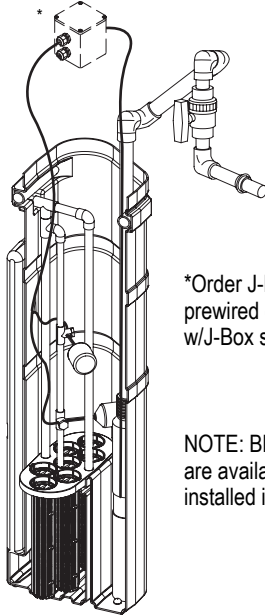
## ½ HP MODEL w/ FLOAT SWITCH CONTROL

- P/N 5041-0003 ½ HP (10 GPM) Package
- P/N 5041-0004 ½ HP HH (10 GPM) Package
- P/N 5041-0005 ½ HP (19 GPM) Package
- P/N 5041-0006 ½ HP (27 GPM) Package

Patent No.  
5,985,139

**System Includes:**

- Filter and pump chamber.
- ½ HP effluent rated turbine pump.
- 115V rated system.
- Double piggyback float switch control and float tree.
- 1¼" flexible discharge pipe assembly.



\*Order J-Box or prewired conduit w/J-Box separately.

NOTE: Blank tanks are available for field installed inlet hole.

SK2408

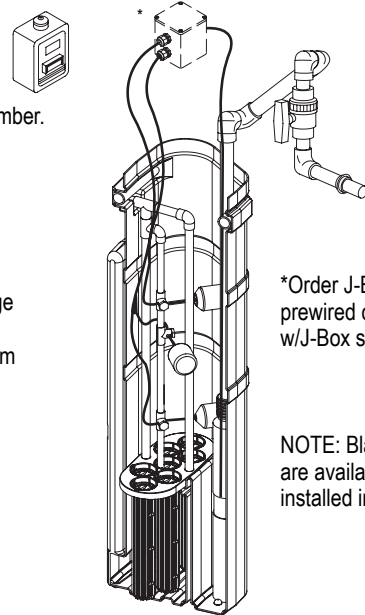
Order prewired conduit, junction box or check valve separately if required.

## ½ HP MODEL w/ FLOAT SWITCH CONTROL & ALARM

- P/N 5041-0007 ½ HP (10 GPM) w/ Alarm Package
- P/N 5041-0008 ½ HP HH (10 GPM) w/ Alarm Package
- P/N 5041-0009 ½ HP (19 GPM) w/ Alarm Package
- P/N 5041-0010 ½ HP (27 GPM) w/ Alarm Package

**System Includes:**

- Filter and pump chamber.
- ½ HP effluent rated turbine pump.
- 115V rated system.
- Double piggyback float switch control and float tree.
- 1¼" flexible discharge pipe assembly.
- Indoor / outdoor alarm and float.



\*Order J-Box or prewired conduit w/J-Box separately.

NOTE: Blank tanks are available for field installed inlet hole.

SK2409

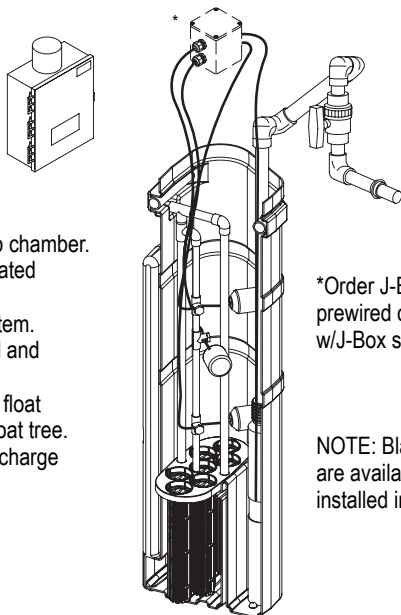
Order prewired conduit, junction box or check valve separately if required.

## ½ HP MODEL w/ SIMPLEX CONTROL PANEL

- P/N 5041-0011 ½ HP (10 GPM) w/ Simplex Control Package
- P/N 5041-0012 ½ HP HH (10 GPM) w/ Simplex Control Package
- P/N 5041-0013 ½ HP (19 GPM) w/ Simplex Control Package
- P/N 5041-0014 ½ HP (27 GPM) w/ Simplex Control Package

**System Includes:**

- Filter and pump chamber.
- ½ HP effluent rated turbine pump.
- 115V rated system.
- Simplex control and alarm panel.
- 3 variable level float switches and float tree.
- 1¼" flexible discharge pipe assembly.



\*Order J-Box or prewired conduit w/J-Box separately.

NOTE: Blank tanks are available for field installed inlet hole.

SK2410

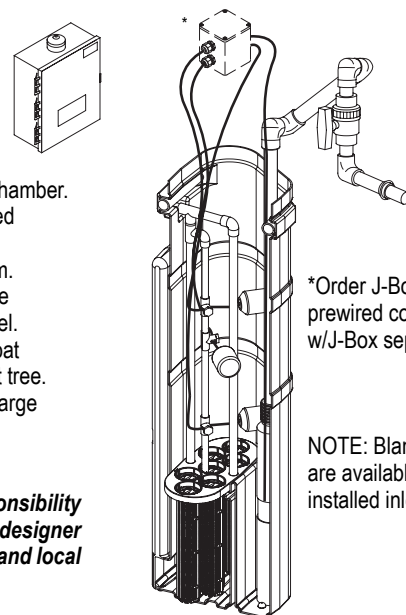
Order prewired conduit, junction box or check valve separately if required.

## ½ HP MODEL w/ TIMED DOSING PANEL

- P/N 5041-0015 ½ HP (10 GPM) w/ Timed Dosing Package
- P/N 5041-0016 ½ HP HH (10 GPM) w/ Timed Dosing Package
- P/N 5041-0017 ½ HP (19 GPM) w/ Timed Dosing Package
- P/N 5041-0018 ½ HP (27 GPM) w/ Timed Dosing Package

**System Includes:**

- Filter and pump chamber.
- ½ HP effluent rated turbine pump.
- 115V rated system.
- Time dosing single pump control panel.
- 3 variable level float switches and float tree.
- 1¼" flexible discharge pipe assembly.



\*Order J-Box or prewired conduit w/J-Box separately.

NOTE: Blank tanks are available for field installed inlet hole.

SK2411

Order prewired conduit, junction box or check valve separately if required.

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

# 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.

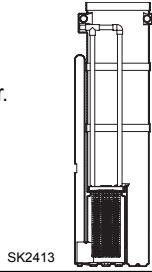
## (A) Filter and Pump Chamber

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

- P/N 5041-0001 High Head Filter and Pump Chamber.

Patent No.  
5,985,139

NOTE: Blank tanks are also available for field installed inlet hole.



SK2413

## (B) Effluent Turbine Pumps

Pump should be selected based on pump performance.

### 10 GPM Pumps - 1/4" Discharge

- P/N 5030-0005 1/2 HP, 115V, 12.0 AMPS
- P/N 5030-0006 1/2 HP, 230V, 6.0 AMPS
- P/N 5030-0007 1/2 HP, 115V, 12.0 AMPS
- P/N 5030-0008 1/2 HP, 230V, 6.0 AMPS
- P/N 5030-0009 3/4 HP, 230V, 8.0 AMPS

### 19 GPM Pumps - 1/4" Discharge

- P/N 5031-0005 1/2 HP, 115V, 12.0 AMPS
- P/N 5031-0006 1/2 HP, 230V, 6.0 AMPS
- P/N 5031-0007 3/4 HP, 230V, 8.0 AMPS
- P/N 5031-0008 1 HP, 230V, 9.8 AMPS

### 27 GPM Pumps - 1/4" Discharge

- P/N 5032-0005 1/2 HP, 115V, 12.0 AMPS
- P/N 5032-0006 1/2 HP, 230V, 6.0 AMPS
- P/N 5032-0007 3/4 HP, 230V, 8.0 AMPS
- P/N 5032-0008 1 HP, 230V, 9.8 AMPS
- P/N 5032-0009 1 1/2 HP, 230V, 13.1 AMPS

### 35 GPM Pumps - 2" Discharge

- P/N 5033-0005 1/2 HP, 115V, 12.0 AMPS
- P/N 5033-0006 1/2 HP, 230V, 6.0 AMPS
- P/N 5033-0007 3/4 HP, 230V, 8.0 AMPS
- P/N 5033-0008 1 HP, 230V, 9.8 AMPS
- P/N 5033-0009 1 1/2 HP, 230V, 13.1 AMPS



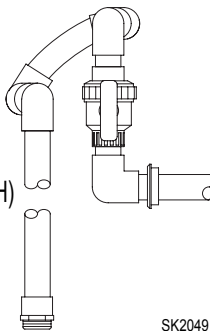
10, 19, 27  
GPM Models

35 GPM  
Models

## (C) Discharge Assemblies & Check Valves

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

- P/N 170-0158 1" diameter discharge pipe assembly (185' TDH Max.)
- P/N 170-0082 1 1/4" diameter discharge pipe assembly (185' TDH Max.)
- P/N 170-0148 1 1/4" diameter schedule 80 discharge pipe assembly (for greater than 185' TDH)
- P/N 170-0159 2" diameter discharge pipe assembly (185' TDH Max.)
- P/N 30-0187 1 1/4" Threaded check valve
- P/N 30-0189 2" Threaded check valve



SK2049

Zoeller High Head 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) Float Tree \_\_\_\_\_

For information on additional Zoeller products, refer to catalog on Alarm Systems, FM0732; Control Panels, FM1596; Time Dosing Panels, FM1559 or FM1560; and Septic Tank Risers, FM1572.

## (D) Control/Alarm

### Double Piggyback Control Switches

- P/N 10-1966 115V, 13 Amps (7" max. pumping range)
- P/N 10-1967 230V, 13 Amps (7" max. pumping range)

### High Water Alarm (includes alarm float)

A high water alarm is recommended and most codes require one.

- P/N 10-1494 Indoor Alarm assembly
- P/N 10-0623 Outdoor Alarm assembly

### Simplex Control Panel (includes 3 sensor floats)

Simplex panel with pull out disconnect, motor contactor, and high water alarm circuit.

- P/N 10-1355 115/230V, 0-20 AMPS Panel

### Timed Dosing Control Panel (includes float switches)

Time dosing panel for single pump control with alarm circuit, elapsed time meter, event counter, circuit breaker, motor contactor, and 2 - float switches (high water and low level cutout).

- P/N 10-1021 115V, 0-20 AMPS
  - P/N 10-0684 115V, 0-20 AMPS
  - P/N 10-0697 230V, 0-20 AMPS
- 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 numbers of wires of the correct gauge for the application. Junction box is included.



### For Simplex Control Panel or Simplex Timed Dosing (up to 3 floats)

- P/N 5100-0001 25' long w/ J-Box (4 cord seals, 1 plug) wt. 10 lbs.
- P/N 5100-0002 35' long w/ J-Box (4 cord seals, 1 plug) wt. 14 lbs.
- P/N 5100-0003 50' long w/ J-Box (4 cord seals, 1 plug) wt. 18 lbs.
- P/N 5100-0004 75' long w/ J-Box (4 cord seals, 1 plug) wt. 26 lbs.
- P/N 5100-0005 100' long w/ J-Box (4 cord seals, 1 plug) wt. 33 lbs.

For other prewired conduit options see FM2080.

### NEMA 4X Junction Boxes

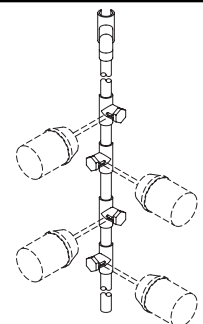
Select Junction Box based on number of cords present in riser.

- P/N 10-1399 4"L x 4"W x 4"H, 4 round cord seals, 1/2" hub - assembled, wt. 1.0 lb.
- P/N 10-0777 4"L x 4"W x 2"H, 4 round cord seals, 3/4" hub - unassembled, wt. 1.0 lb.
- P/N 10-0778 4"L x 4"W x 2"H, 5 round cord seals, 3/4" hub - unassembled, wt. 1.0 lb.

## (F) Float Tree

Float trees are selected based on the number of float switches in each assembly.

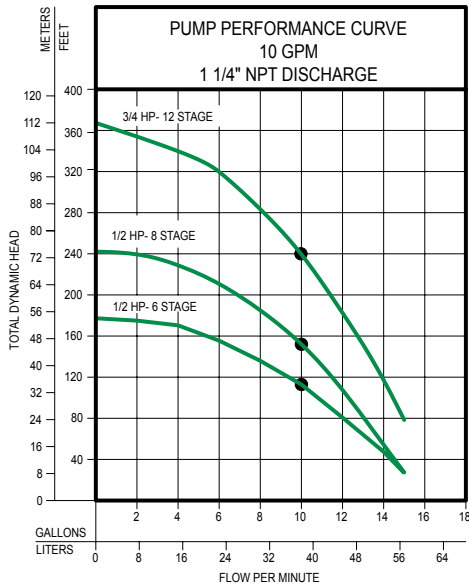
- P/N 10-1672 2 - Hanger Float Tree (for use with 2 - float applications)
- P/N 10-1673 3 - Hanger Float Tree (for use with 3 - float applications)
- P/N 10-1674 4 - Hanger Float Tree (for use with 4 - float applications)



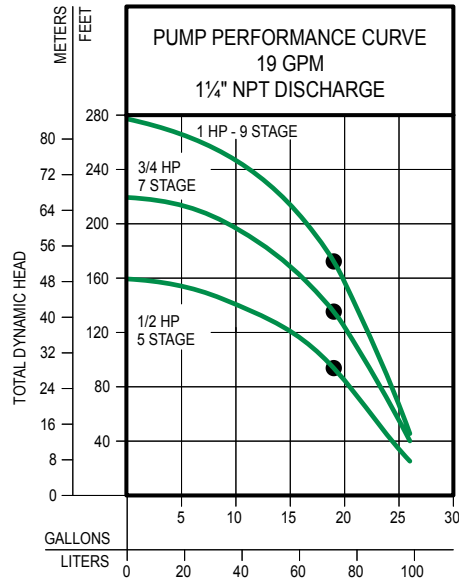
Floats ordered separately, also may be included with panels.

SK2412

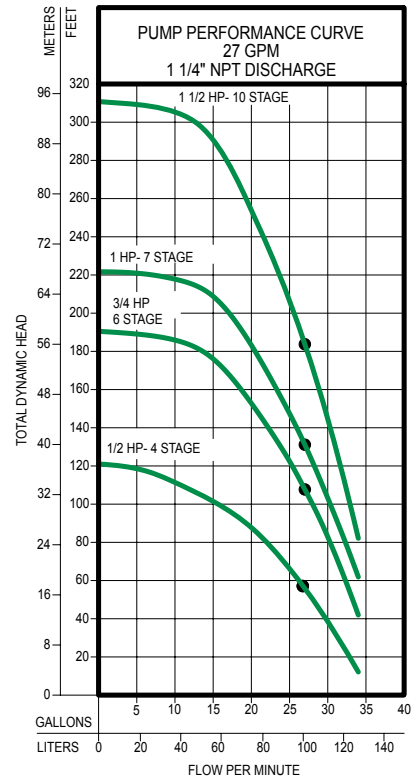
# Multi-Stage Effluent Turbine Submersible Pumps



015413



015414



015045

10 GPM

Part Number	H P	Voltage	Phase	Amps	Stages	Height
5030-0005	1/2	115	1	12.0	6	22-3/8"
5030-0006	1/2	230	1	6.0	6	22-3/8"
5030-0007	1/2	115	1	12.0	8	25-1/4"
5030-0008	1/2	230	1	6.0	8	25-1/4"
5030-0009	3/4	230	1	8.0	12	29-15/16"

19 GPM

Part Number	H P	Voltage	Phase	Amps	Stages	Height
5031-0005	1/2	115	1	12.0	5	21-15/16"
5031-0006	1/2	230	1	6.0	5	21-15/16"
5031-0007	3/4	230	1	8.0	7	25-1/16"
5031-0008	1	230	1	9.8	9	28-1/8"

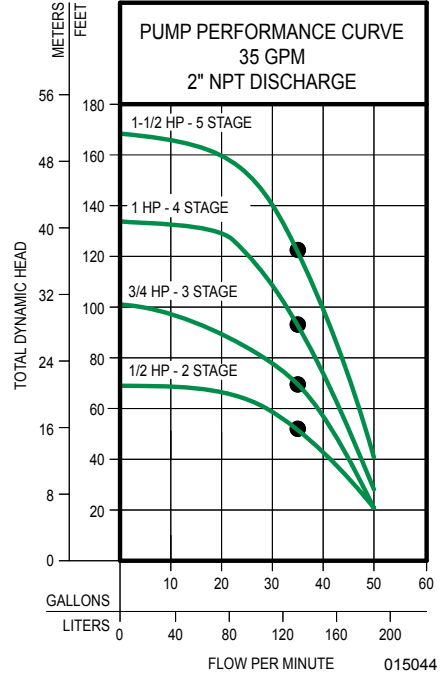
27 GPM

Part Number	H P	Voltage	Phase	Amps	Stages	Height
5032-0005	1/2	115	1	12.0	4	21-3/16"
5032-0006	1/2	230	1	6.0	4	21-3/16"
5032-0007	3/4	230	1	8.0	6	24-3/16"
5032-0008	1	230	1	9.8	7	26-7/16"
5032-0009	1-1/2	230	1	13.1	10	30-3/16"

35 GPM

Part Number	H P	Voltage	Phase	Amps	Stages	Height
5033-0005	1/2	115	1	12.0	2	18-7/8"
5033-0006	1/2	230	1	6.0	2	18-7/8"
5033-0007	3/4	230	1	8.0	3	20-1/4"
5033-0008	1	230	1	9.8	4	21-9/16"
5033-0009	1-1/2	230	1	13.1	5	22-7/8"

NOTE: 55 & 85 GPM also available for engineered systems. See FM2091 and consult Zoeller Technical Service Department.



015044

ALL ZOELLER ONSITE PRODUCTS MUST BE INSTALLED IN ACCORDANCE WITH PLUMBING AND HEALTH DEPARTMENT CODES.

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