



P U M P

OPERATION, PERFORMANCE AND  
SPECIFICATIONS MANUAL

# PRE-PLUMBED SEWAGE BASIN SYSTEM



SW40WB2424/  
SW50WB2424

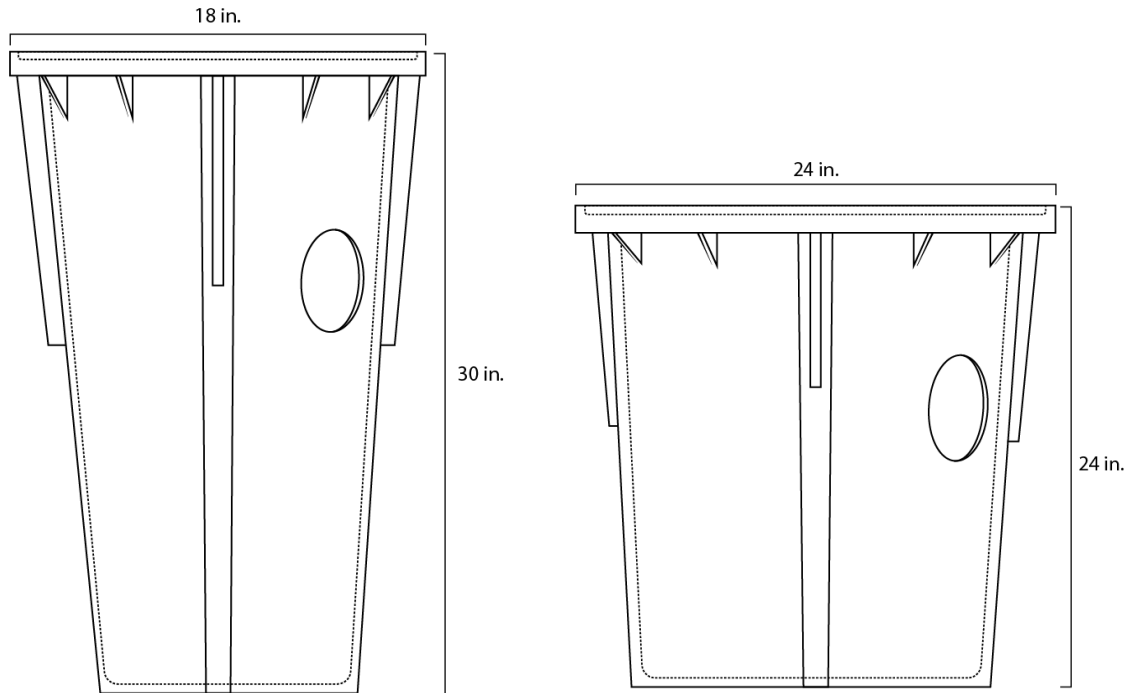


SW40WB1830/  
SW50WB1830

- Thank you for purchasing this pump system. Take the time to read the instructions carefully before using this product. We strongly recommend that you keep this instruction manual in a safe place for future reference.



## Features



### Features and Benefits

- Features an 18 in. x 30 in., 30 Gal.; or 24 in. x 24 in., 45 Gal., heavy duty sewage basin with a water-tight snap-in molded inlet hub
- Ultra strong cover comes with 2 in. threaded discharge and vent flanges, a molded cord grommet, a molded reusable cover seal and eight stainless screws and washers to secure the cover to the basin
- Automatic, all cast-iron sewage pump passes 2 in. solids and features 20 ft. power and piggyback float switch cords
- System pumps up to 125 GPM
- Ultra quiet, heavy duty ABS slip fit, flexible union check valve passes a full 2in. solid

Performance (Gallon Per Minute)						Float Switch		Solids Handling
Model	0'	5'	10'	15'	20'	On	Off	
SW40WB1830	110	105	85	61	20	15.5"	7.5"	2"
SW50WB1830	125	116	98	75	48	15.5"	7.5"	2"



## Features

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### Features and Benefits

#### Pre-Plumbed Sewage System

- 30 and 45 U.S. gallon capacity options
- Heavy duty structural foam injection molded construction
- Pre-drilled inlet hole at 10-1/2" cL depth
- Gas and odor tight
- 100% tested with its own performance curve
- Rated for continuous duty
- Rugged cast iron construction
- Solid's Handling Vortex impeller
- High efficiency permanent split capacitor motor with automatic reset thermal overload protection
- Ball bearings for quiet operation
- Handles 2" solids
- Easily replaceable 20 foot power cord
- Mechanical shaft seal for long life
- Support 400 lbs. + Sewage Pump

#### Basin Cover

- 2" slip and 2" threaded vent flanges
- Custom, molded, reusable PVC seal
- Heavy duty structural foam injection molded construction
- 8-bolt, gas, radon and odor tight

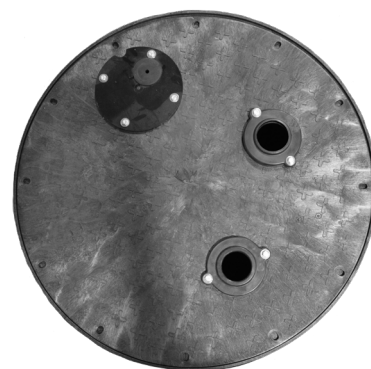
#### 2" Check Valve

- Passes a full 2" solid
- Stainless steel hose clamps
- Industry's most durable flapper
- Strong, durable ABS body
- Flow arrows clearly marked
- Fits 2" black, galvanized and PVC Schedule 40 pipe

#### Basin Inlet Hub

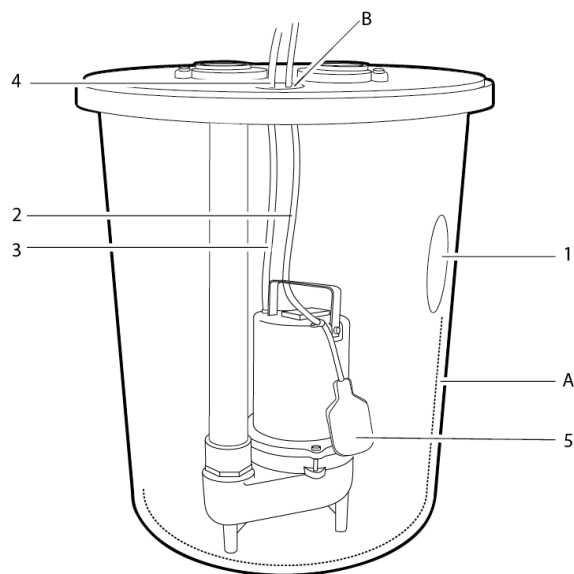
- Water and vapor-tight seal
- Fits 4" DWV SCH.40/80
- Built-in "O" rings
- Stainless steel clamp

### Components



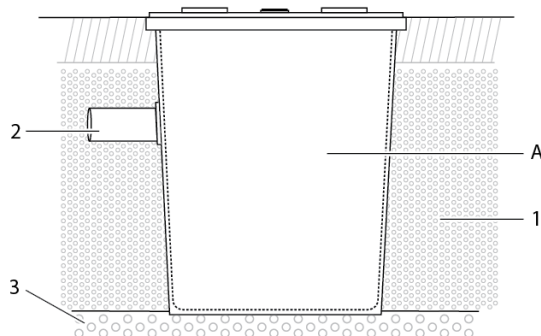
## 1. Preparing the Basin for Installation

- Remove the basin cover by removing the basin cover fasteners. Remove the package containing the inlet hub (D), check valve (C) and cord grommet (B).
- Remove the pump power cord and float switch cord (if necessary) from the inside of the basin, removing all slack from the cord(s). Ensure the cord(s) are not tangled around the pump or float switch. Verify the float switch is able to move freely.
- Feed the cord(s) through the cord grommet hole (4) on the basin cover, place the cover on the basin ensuring the discharge flange and the discharge piping are in the correct orientation.
- Press each cord through the slit and into the hole on the cord grommet (B), 2 hole cord grommet for pumps with a float cord and a 1 hole grommet for 1 cord systems. Press the grommet (B) into the grommet hole (4) to provide a tight seal.
- Secure the basin cover onto the basin with the basin cover fasteners removed in the first step.



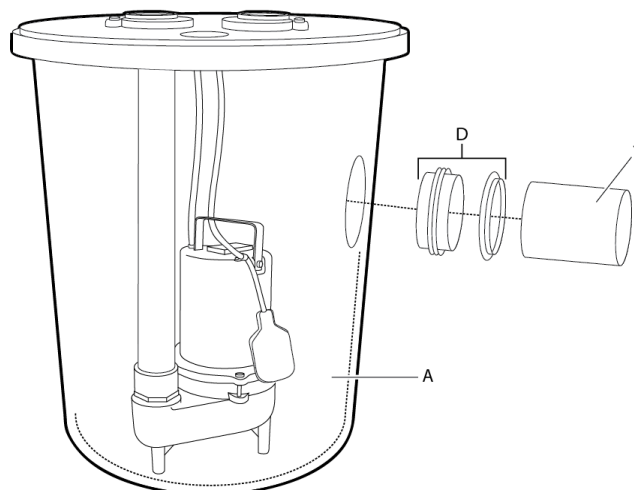
## 2. Preparing the installation location

- Excavate a hole large enough to accommodate the basin (A), backfill material (1) and inlet piping (2).
- Add 4 – 6 in. of clean sub-base material or concrete (3) to the bottom of the hole.
- Assure that it is level, compacted, and smooth.
- Place the basin (A) in the hole and ensure that it is level.



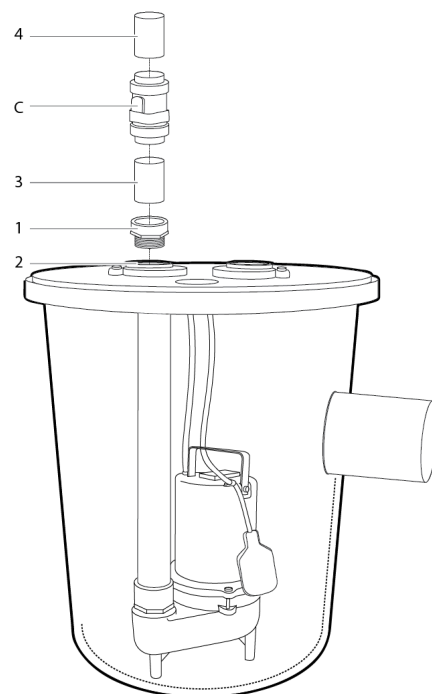
## 3. Connecting the inlet piping

- Connect the inlet piping (1) as required by code using the 4 in. snap-in inlet hub (D). Hand-Tighten the hose clamp.
- Carefully backfill with naturally rounded gravel or stone, larger than 3/8 in. and smaller than 3/4 in. diameter, around the periphery of the basin (A).



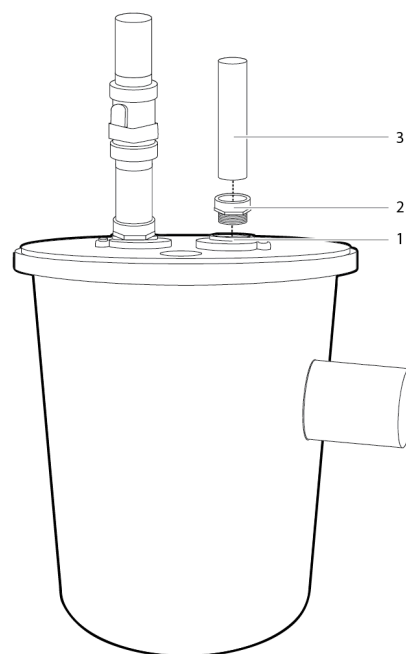
## 4. Connecting the discharge piping

- Install a 2 in. PVC Schedule 40 threaded male adapter (1) (not included) into the discharge flange (2) as shown. Use Teflon tape, silicon sealant, or plumber's pipe dope to seal the threads. Ensure that you are connecting to the sewage pump discharge and not the vent port.
- Connect discharge pipe (3) (not included) to the 2 in. PVC Schedule 40 threaded male adapter (1) (not included) using PVC primer and solvent cement to properly seal the connection.
- Install the 2 in. compression fit check valve (EFSWCV200) (C) to the discharge line at the appropriate location. Ensure the flow arrow on the check valve (C) is pointed in the right direction. Tighten fittings to ensure a watertight seal.
- Install 2 in. PVC Schedule 40 pipe (4) (not included) into the 2 in. compression fit check valve (C) and connect this pipe to the appropriate sewer main pipe for discharge. Hand tighten the fittings to ensure a watertight seal.



## 5. Attaching the vent connection

- Install a 2 in. PVC Schedule 40 threaded male adapter (1) (not included) into the vent hole (2) as shown. Use Teflon tape, silicon sealant, or plumber's pipe dope to seal the threads.
- Connect a vent pipe (3) (not included) to the 2 in. PVC Schedule 40 threaded male adapter (1) using PVC primer and solvent cement to properly seal the connection. Connect the vent pipe to the sewer's vent system. We suggest that a union be installed on this line to allow for easy pump service or removal.



## 6. Connecting the power and verifying proper operation


- Make sure that the cord grommet is properly inserted into the lid. This assures a water and gas tight seal.
- Check the pump by filling the basin with water and observe the pump's operation through one complete cycle.





## Safety Information


### PRECAUTIONS


1. This document serves only as an installation guide. Refer to your state and/or local plumbing or onsite wastewater treatment and disposal regulations for details pertaining to your systems design, installation and maintenance requirements.
2. Keep this instruction manual in a safe place for future reference.
3. The motor of this pump has a thermal protector that will trip if the motor becomes too hot. The protector will reset itself once the motor cools down and an acceptable temperature has been reached. The pump may start unexpectedly if it is plugged in.
4. Ensure the electrical power source is adequate for the requirements of the pump.
5. This pump is made of high-strength, corrosion-resistant materials. It will provide trouble-free service for a long time when properly installed, maintained, and used. However, inadequate electrical power to the pump, dirt, or debris may cause the pump to fail. Please carefully read the manual and follow the instructions regarding common pump problems and remedies.


 **DANGER:** Do not pump flammable or explosive liquids such as oil, gasoline, kerosene, ethanol, etc. Do not use in the presence of flammable or explosive vapors. Using this pump with or near flammable liquids can cause an explosion or fire, resulting in property damage, serious personal injury, and/or death.


 **DANGER:** ALWAYS disconnect the power to the pump before servicing.


 **DANGER:** Do not touch the motor housing during operation. The motor is designed to operate at high temperatures. Do not disassemble the motor housing.


 **DANGER:** Do not handle the pump or pump motor with wet hands or when standing on a wet or damp surface, or in water. If basement floor is wet, do not walk on wet area until all power is turned off. If shut-off box is in basement, call the electric company to shut off service to the house, or call your local fire department for instructions. Remove pump and repair or replace. Failure to follow this warning can result in fatal electrical shock.


 **WARNING:** Extension cords may not deliver sufficient voltage to the pump motor. Extension cords present a life threatening safety hazard if the insulation becomes damaged or the connection ends fall into water. The use of an extension cord to power this pump is not permitted.


 **WARNING:** Secure the discharge line before starting the pump. An unsecured discharge line will whip, possibly causing personal injury, and/or property damage.


 **WARNING:** Release all pressure and drain all water from the system before servicing any component.

 **WARNING:** Wear safety goggles at all times when working with pumps.

 **WARNING:** This unit is designed only for use on 115 volts (single phase), 60 Hz, and is equipped with an approved 3-conductor cord and 3-prong grounded plug. Do not remove the ground pin under any circumstances. The 3-prong plug must be directly inserted into a properly installed and grounded 3-prong, grounding-type receptacle. Do not use this pump with a 2-prong wall outlet. Replace the 2-prong outlet with a properly grounded 3-prong receptacle (a GFCI outlet) installed in accordance with the National Electrical Code and local codes and ordinances. All wiring should be performed by a qualified electrician.

 **WARNING:** Protect the electrical cord from sharp objects, hot surfaces, oil, and chemicals. Avoid kinking the cord. Do not use damaged or worn cords.

 **WARNING:** Failure to comply with the instruction and designed operation of this unit may void the warranty. **ATTEMPTING TO USE A DAMAGED PUMP** can result in property damage, serious personal injury, and/or death.

 **WARNING:** Ensure that the electrical circuit to the pump is protected by a 15 Amp fuse or circuit breaker.

 **CAUTION:** Do not lift the pump by the power cord.



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## Safety Information



**CAUTION:** Know the pump and its applications, limitations, and potential hazards.



**CAUTION:** Periodically inspect the pump and system components to ensure the pump intake is free of mud, sand, and debris. Disconnect the pump from the power supply before inspecting.



**CAUTION:** Follow all safety standards and all local electrical codes.

**ELECTRICAL SAFETY WARNING:** Do not splice the electrical power cord.



**WARNING:** Do not allow the electrical cord plug to be submerged.



**WARNING:** Do not use extension cords. They are a fire hazard and can reduce voltage sufficiently to prevent pumping and/or damage the motor.



**WARNING:** Do not handle or service the pump while it is connected to a power supply.



**WARNING:** DO NOT remove the grounding prong from the plug or modify the plug. To protect against electrical shock, the power cord is a three-wire conductor and includes a 3-prong grounded plug. Plug the pump into a 3-wire, grounded, grounding type receptacle. Connect the pump according to electrical codes that apply.





**WARRANTY:** For a period of time no greater than three (3) year after the original purchase of the subject product, and subject to the

conditions of this Limited Warranty, Ashland Pump will repair or replace for the original purchaser only, any portion of your new Ashland Pump product that proves to contain defective materials or defective workmanship, provided the product is properly installed, serviced and operated under normal conditions and according to the manufacturer's instructions.

Ashland Pump disclaims all liability, including liability under this Limited Warranty, for improper installation, application or use of its products. Ashland Pump shall have and possess the sole discretion to determine whether to repair or replace defective equipment, parts or components with a new or remanufactured part. Any item to be replaced under this Warranty must be returned to Ashland Pump, or such other place as Ashland Pump may designate, freight prepaid. In the absence of suitable proof of purchase date, the effective date of this warranty will be based upon the date of manufacture as evidenced by the serial number of the product.

There is no other express or implied warranty covering your Ashland Pump product. Without limiting the foregoing, Ashland Pump specifically disclaims the implied warranties of merchantability and fitness for a particular purpose. No warranties or representations at any time made by any representative of Ashland Pump shall vary or expand the provisions of this written Limited Warranty. This Limited Warranty contains the purchaser's exclusive remedy for any alleged defect in the product.

To the greatest extent permissible by applicable law, Ashland Pump shall not be liable or responsible for consequential, incidental or special damages resulting from or related in any manner to any Ashland Pump product or parts. Personal injury and/or property damage may result from improper installation, application or use of your Ashland Pump product. Ashland Pump shall not be liable for any loss, damage, or expenses resulting from the installation or use of its products other than as expressly set forth in this Limited Warranty. Ashland Pump shall in no event be responsible or liable for the cost of field labor or other charges incurred by any purchaser or user in removing and/or reaffixing any Ashland Pump product, part or component or any temporary pumping or other equipment. 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.



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***Honest, Professional, Dependable***

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