

# S-Series Vacuum Pump Installation Instructions



Dometic Corporation • Sanitation Systems

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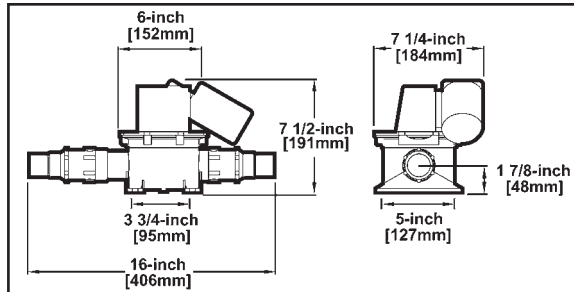
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## Dimensional Specifications



## Electrical Specifications

Model	Volts (DC)	Avg. Amp Draw	GPH	Fuse/Breaker	Wire Size	Weight
S12	12	6	225	10 Amp	12-14 Ga.	8 Lbs.
S24	24	3	225	5 Amp	14-16 Ga.	8 Lbs.

Before mounting the pump, you must consider the following:

1. Vacuum pump must be mounted horizontally only.
2. The pump can be mounted from 2 to 15 feet from the vacuum tank. The maximum distance is 15 feet.
3. The vacuum pump must not be mounted more than 3 feet higher than the vacuum tank outlet.
4. The maximum head pressure on the discharge of the pump must not exceed 6 feet.

**Note:** Two-toilet systems require a vacuum pump and vacuum tank for each toilet. It is our experience that this method provides the benefit of a totally redundant operating toilet in case of failure in one toilet, and two pumps greatly reduce hose runs and system complexity.

Make sure the vacuum pump is properly located before proceeding. Place the vacuum pump on the surface to be mounted. Position as needed. Using a center punch, mark the four slotted holes in the pump feet. Remove pump.

**Note:** The vacuum pump emits a low frequency vibration that sometimes can produce a noticeable noise. The best method of isolating the pump from the mounting surface is to use SeaLand's Noise Isolation Kit #319053. This kit consists of two pieces of pre-cut isolator hose and fasteners. If using Noise Isolation Kit, the pump should be mounted to hose isolators then the hose isolators mounted to the floor.

Using a 3/16-inch drill bit, drill the four mounting holes. Use a #14 wood screw to secure pump.

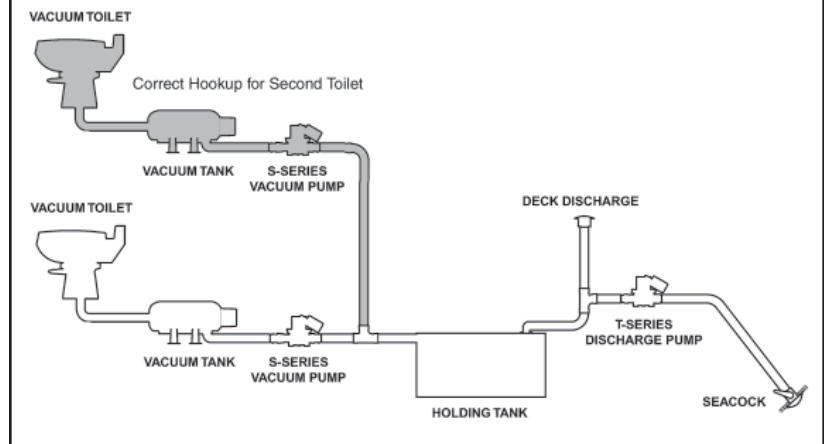
The flow direction is indicated on the pump body.

**Reminder:** Never mount the pump on its side, at an angle or upside down. For proper operation, the pump must be mounted horizontally.

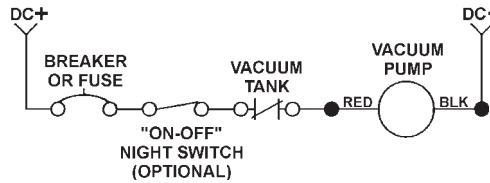
**Reminder:** The best system will position the vacuum pump at the same level or lower than the vacuum tank and the vacuum tank will be positioned at the same level or lower than the VacuFlush toilet.

Stainless steel wall mounting bracket available as optional accessory – P/N 341505.

## Typical One and Two Toilet Installation



Wire the S-Pump as shown in the wiring diagram. Use multistranded copper wire. Protect the wiring by installing grommets or other protective device at holes and sharp edges. Proper fuse or circuit breaker size is extremely important for pump and wire protection. Overfusing this pump will result in warranty invalidation.



**WARNING**  
 Pump starts automatically. Turn off power before servicing.

All voltages of S-Series vacuum pumps are wired in the same manner. The differences are in the required wire and fuse/breaker sizes. Run appropriate size wire from power source to vacuum switch (located on end of vacuum tank under white end cover) and attach to a "B" terminal. Run a wire from the other "B" terminal to red power wire on vacuum pump. Run a wire from the black pump wire to a grounding terminal or buss bar.

**Note:** Do not overfuse the vacuum pump. To protect the motor, use only the fuse capacities shown on chart (see reverse side). Overfusing will void the pump warranty.

Electrical schematic also shows installation of optional "night switch".

S-Series Vacuum Pump		Item	Part No.	Description
		1	600340237	Cover Screw, #4 x 3/8" Pan Hd SS
		2	385311314	Pump Cover
		3	600341506	Top Closure
		4	600342332	Hex Head Screw, #10-32 x 1/2" SS
		5	385310151	O-Ring Replacement Kit
		6	600340664	Bushing, Bellows
		7	600343006	Hex Head Shoulder Screw, 1/2" x .687 x 3/8"-16
		8	600347807	Bellows Clamp
		9	600347800	Valve Nipple
		10	385347802	1 1/2" Duckbill Valve (2)
		11	600347801	Valve Adapter
		12	600341504	Pump Body
		13	385230980	Bellows Assembly (incl. item 6)
		14	600347788	Set Screw, 1/4 -28 x 5/16", 1/2" Dog Point
		15	600344470	Eccentric
		16	385310245	Motor, 12VDC
		16A	385310246	Motor, 24VDC
		17	600341503	Hex Washer Head Screw #10-12 x 7/8", SS
	18	385310249	<b>Not Shown</b> Pump Assembly Less Motor (Includes items 3, 5, 6, 8 through 13)	

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 Pump starts automatically. Turn off power before servicing.

**\*Note:** When reassembling pump, tighten screws to 20±2lbs., or until snug. Over-tightening will cause holes to strip.

**Dometic Corporation manufactures a complete line of sanitation products and systems. Write or call the factory to receive free literature on the following products:**

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- SaniPottie® Portable Toilets
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- SeaLand® Environment-Friendly Holding Tank Deodorant
- SeaLand® brand Marine Toilet Tissue
- SeaLand® Toilet Bowl Cleaner
- SeaLand® Holding Tank Systems
- SeaLand® Holding Tank Vent Filter
- OdorSafe® Plus Sanitation Hose and Fittings
- TankWatch® Holding Tank Level Monitors