VacuFlush 4700 Series Toilet Installation Requirements

Electrical	Amp draw (average)	2 amps @ 12 V DC; 1 amp at 24 V DC
	Toilet circuit breaker/fuse	2-amp internal fuse (resettable) *
Water Supply	Fitting	0.5 in. NPT
	Flow rate	4.0 gpm/15.1 lpm minimum required at toilet
Discharge	Size	1.5 in./38 mm ID PVC pipe or sanitation hose
	Horizontal run	50 ft./15 m maximum to vacuum source
	Vertical run	6 ft./1.8 m maximum to vacuum source
Required components	Electric flush switch	Dometic VFS or VFP switch (purchased separately)
	Vacuum source	VacuFlush vacuum generator or VacuFlush holding tank system (purchased separately)

* Circuit board fuse resets by turning toilet's electrical power off, then back on.
Specifications subject to change without notice.

VacuFlush® 4748 Toilet INSTALLATION

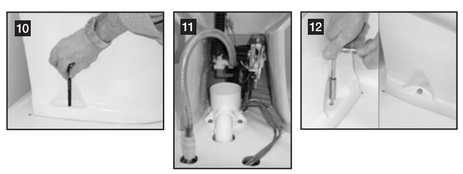
1. Carefully unpack toilet and place in the intended floor location. Assure adequate clearance for opening the seat and lid. Check front and sides of toilet base to insure it sets flat on the floor. Determine the best location for flush switch panel or status panel (for toilets with flush handle). The panel should be near toilet but not hidden by toilet lid in the "up" position. Avoid a location susceptible to direct water spray.
2. Mark the floor at the rear corners of the ceramic toilet (fig. 1). Set toilet aside.
3. Measure the distance between the rear corner marks on the floor and divide by 2 to find the center. Place a carpenter's square against the rear wall, and draw a centerline at least 18 in. (457 mm) long (fig. 2).
4. Choose an inlet configuration for the electrical wiring and water line hole location: (a) through the rear wall, or (b) through the floor.
5. **For discharge through the wall only,** measure up 1 inch (25 mm) from the toilet centerline. For the water line and electrical wiring, measure up 2 inches (51 mm) and to the left and right of the centerline 3 inches (76 mm) (fig. 3).

6. Align the 4748 template with the centerline mark on the floor and against the rear wall (fig. 4). Tape the template to the floor.
7. Using a center punch, mark the four 3/16-inch (5 mm) discharge adapter mounting holes (fig. 5) and all the through-floor discharge and water/electrical holes as determined in step 4. Remove the template from the floor.
8. Drill the discharge hole 2.5 in. (62 mm) dia. through the floor or 2 in. (51 mm) dia. through the wall. Where required, drill out 1.75-in. (44 mm) dia. electrical wire and water line holes (fig. 6).

9. Using PVC primer and solvent cement, solvent weld the desired outlet fittings to the discharge adapter (fig. 7). Allow to cure before final installation.
10. **For toilets being installed with a wall-mounted VacuFlush flush switch (VFS or VFP) or status panel (DVS01 or DVS02),** follow instructions provided with the panel to create access hole in wall. Be sure cable provided with panel will reach from switch location to connection in toilet base.
11. Mount the discharge adapter to the floor (fig. 8) with #14x1-inch pan head phillips head screws and flat washers provided. Complete the plumbing to the vacuum tank or vacuum generator. Use 1.5-inch OdorSafe Plus flexible sanitation hose or 1.5-inch PVC schedule 40 pipe.
12. Route 0.5-in. (13 mm) dia. water line from the fresh water source through the 1.75-inch (44 mm) hole in the wall or floor and attach a 0.5-inch NPT fitting (fig. 8). **NOTE:** A shut-off valve should be installed in water line to toilet for maintenance or repair.
13. Install flush switch and/or status panel in desired location. Dometic flush switch and status panel instructions are provided with the panel.
14. WITH POWER OFF, route electrical cable (wiring) from vacuum generator/vacuum tank and power source through the 1.75-in. (44 mm) hole to the toilet. Route the flush switch/status panel cable (6-pin connector shown - actual cable connector may vary) or status panel cable (4-pin connector shown, actual cable connector may vary) to toilet (fig. 9). See wiring diagram on parts list. Leave enough cable (at least 12 inches/305 mm) through the wall or floor for connecting to the toilet and flush switch and/or status panel.

Caution!
IMPORTANT: Do not attempt to slide the toilet over the discharge adapter. The toilet must be set down into the adapter to prevent possible damage.

15. **Remove the red cap from the discharge adapter.** Lubricate the O-ring around the bottom of the toilet base with liquid soap or silicone grease. Temporarily set the toilet in place on the discharge adapter and mark the holes for the two toilet mounting bolts (fig. 10).
16. Pick up the toilet and set aside. Drill the two 3/16-inch (5 mm) toilet mounting holes in the floor.
17. Set the toilet in front of the discharge adapter. Connect the flexible water hose to the 0.5-inch NPT fitting on the inlet water line. Connect cable between the flush switch/status panel and the toilet. Connect cables between vacuum generator and toilet (fig. 11).
18. Secure the toilet to the floor with the #14x2-1/2 inch long lag bolts. Install the decorative bolt caps by pushing the onto the bolt heads (fig. 12).
19. Turn on electrical power and water to toilet. Turn on electrical power to the vacuum system. Add water to the toilet bowl and wait one hour. Inspect floor around and under rear of toilet for water leaks. Follow system start-up procedure in Section 6.1 of the operation manual. END



SEE SEPARATE INSTRUCTIONS FOR WALL-MOUNTED FLUSH SWITCH AND/OR STATUS PANEL INSTALLATION.

VacuFlush® 4709 Toilet INSTALLATION

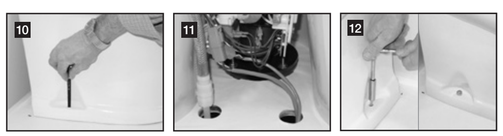
1. Carefully unpack toilet and place in the intended floor location. Center the toilet to assure adequate clearance for opening the seat and lid. Check front and sides of toilet base to insure it sets flat on the floor. Determine the best location for flush switch panel or status panel (for toilets with flush handle). The panel should be near toilet but not hidden by toilet lid in the "up" position. Avoid a location susceptible to direct water spray.
2. Mark the floor at the rear corners of the ceramic toilet (fig. 1). Set toilet aside.
3. Measure the distance between the rear corner marks on the floor and divide by 2 to find the center. Place a carpenter's square against the rear wall, and draw a centerline at least 14 in. (356 mm) long. Mark centerline of discharge flange at 10.5 in. (267 mm) from wall (fig. 2).
4. Choose an inlet configuration for the electrical wiring and water line hole location: (a) through the rear wall, or (b) through the floor.
5. **If routing wires and water line through the wall,** measure up 2 in. (51 mm) and 3 in. (76 mm) to the left of the toilet centerline for the electrical cables and 3 in. (76 mm) to the right of the toilet centerline for the water line. Mark the hole locations (fig. 3).
6. **If routing wires and water line through the floor,** draw another centerline 2 in. (51 mm) from the rear wall (fig. 4) and 3 in. (76 mm) to left and right of the toilet centerline for the electrical cables and water line. Mark the hole locations (fig. 3).
7. Cut out the 4.75 inch (121 mm) dia. discharge flange hole. Where required, (floor or wall), drill the 1.75 inch (44 mm) dia. water line and electrical cable holes (fig. 3).

8. **Vertical Discharge** - Using PVC primer and solvent cement, attach the hose adapter directly into the discharge flange outlet. Allow to cure before final installation. **Horizontal Discharge** – Using PVC primer and solvent cement, attach the elbow directly to the discharge flange outlet. Then attach the hose adapter into the elbow (fig. 4). Allow to cure before final installation.
9. Insert discharge flange into hole with elbow pointing in direction of discharge plumbing. Mark the floor through the eight adapter fastener holes. Remove flange and drill pilot holes with a 11/64-in. (4 mm) drill bit.
10. Route the vacuum hose from the vacuum generator or vacuum tank up through the discharge flange hole. Lubricate the inside of the hose with liquid dishwashing soap and install the hose on the adapter. Secure the connection with two stainless steel hose clamps (fig. 5).
11. Insert the four T-bolts into the discharge flange from the underside.
12. Insert the discharge flange and connected hose into the discharge hole and secure to the floor with the eight #12x 1-1/2-inch flat head screws provided (fig. 6).

13. Install the flange gasket over the T-bolts (fig. 7).
14. Install discharge adapter onto flange with words "THIS SIDE UP" facing up. Tighten adapter to discharge flange using four flat washers and hex nuts. Tighten in criss-cross pattern (fig. 8).
15. Route 0.5-in. (13 mm) dia. water line from the fresh water source through hole in wall or floor and attach a 0.5-inch NPT fitting. **NOTE:** A shut-off valve should be installed in water line to toilet for maintenance or repair.
16. **For toilets being installed with a wall-mounted VacuFlush flush switch (VFS or VFP) or status panel (DVS01 or DVS02),** follow instructions provided with the panel to create access hole in wall. Be sure cable provided with panel will reach from switch location to connection in toilet base.
17. Install flush switch and/or status panel in desired location. Dometic flush switch and status panel instructions are provided with the panel.
18. WITH POWER OFF, route electrical cable (wiring) from vacuum generator/vacuum tank and power source through 1.75-in. (44 mm) hole to the toilet. Route the flush switch/status panel cable (6-pin connector shown - actual cable connector may vary) or status panel cable (4-pin connector shown - actual connector may vary) to the toilet (fig. 9). See wiring diagram on parts list. Leave enough cable (at least 12 inches/305 mm) through the wall or floor for connecting to the toilet and flush switch and/or status panel.

Caution!
IMPORTANT: Do not attempt to slide the toilet over the discharge adapter. The toilet must be set down into the adapter to prevent possible damage.

19. **Remove the red cap from the discharge adapter.** Lubricate the O-ring around the bottom of the toilet base with liquid soap or silicone grease. Temporarily set the toilet in place on the discharge adapter and mark the holes for the two toilet mounting bolts (fig. 10).
20. Pick up toilet and set aside. Drill two 3/16-inch pilot holes in the floor.
21. Set toilet in front of discharge adapter. Connect flexible water hose to 0.5-inch NPT fitting on inlet water line. Connect cable between flush switch/status panel and toilet. Connect cables between vacuum generator/power source and toilet (fig. 11).
22. Pick up toilet and set in place on discharge adapter. Secure toilet to the floor with #14x 2-1/2 long lag bolts. Install decorative bolt caps by pushing them onto bolt heads (fig. 12).
23. Turn on electrical power and water to toilet. Turn on electrical power to vacuum system. Add water to toilet bowl and wait one hour. Inspect floor around and under rear of toilet for water leaks or dampness. Follow system start-up procedure in Section 6.1 of operation manual. END



SEE SEPARATE INSTRUCTIONS FOR WALL-MOUNTED FLUSH SWITCH AND/OR STATUS PANEL INSTALLATION.

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