

# **Envirolet™**

## **Waterless Remote System**

### **INSTALLATION INSTRUCTIONS**

For customer service please contact us:

**USA 1-800-387-5126**  
**CDA 1-800-387-5245**

**info@envirolet.com**

You can also find us online at:

**[www.envirolet.com](http://www.envirolet.com)**

For your convenience, parts and accessories can be purchased online 24 hours a day!



SANCOR 140-30 Milner Ave. Toronto, Ontario, Canada M1S 3R3

# Waterless Remote System Installation Instructions

Please read these instructions carefully. A correctly installed System and Vent, along with proper System Operation and Maintenance, are essential to the performance of your Envirolet™ Composting Toilet System.

These instructions are for the following Envirolet™ Systems:

**Envirolet™ W/RS (Non-Electric)**  
**Envirolet™ W/RS (110v Electric)**  
**Envirolet™ W/RS (12v Battery)**  
**Envirolet™ W/RS Hybrid (12v/110v)**

## IMPORTANT

1. Ensure that all Vent connections are sealed with silicone sealant.
2. Install Vent Kit as straight-up as possible for maximum efficiency and performance.
3. Do not remove Paper Mat in System. Used with Premix Starter to start-up System.

If you require any assistance with the Installation or Operation of your Envirolet™ System, please do not hesitate to contact Sancor™ Technical Support toll-free at:



**USA 1-800-387-5126**  
**CDA 1-800-387-5245**  
Direct 416-299-4818  
info@envirolet.com

(Technical Support: 9am - 4pm EST, Monday - Friday)

## SPACE REQUIREMENTS

**IMPORTANT:** 33" of space or more (30" minimum) is ideal below the bottom of the bathroom floor (not joist) to the ground (where the composting unit sits).

The composting unit for your Envirolet™ Waterless Remote System installs directly below the bathroom floor on the outside ground, in a crawl space or in a basement, with as little as 30" or more of height from the bottom of the bathroom floor to the ground (bottom of composting unit). If this space is less than 33", the Waterless Toilet may have to be raised on a small (approximately 4") platform on the bathroom floor.

# ENVIROLET™ WATERLESS REMOTE SYSTEM COMPONENT LIST

Part	Qty	Notes
Envirolet™ Waterless Remote System Composting Unit (Non-Electric, 12v Battery, 110v Electric or 12v/110v Hybrid model)	1	Composting Unit that is located below the Waterless Toilet in your bathroom.
8" Flexible Drain	2'	Connects Waterless Toilet to Envirolet™ Waterless Remote System Composting Unit.
4" Flexible Vent with 4" ABS coupling attached	4'	Attach coupling to 4" rigid ABS pipe to extend your vent above your roof.
4" Wind Turbine	1	Attaches to top of 4" rigid ABS pipe above roof.
Roof Flashing	1	Rubber Roof Flashing with angled 4" diameter hole. Fits over 4" ABS vent pipe.
Silicone Sealant	1	Small clear tube used to seal all vent and drain connections.
8" Gear Clamp	1	Stainless steel clamp used to attach 8" Flex Drain to Waterless Toilet chute.
4" Gear Clamp	1	Stainless steel clamp used to connect 4" Flex Vent to 4" vent opening in Composting Unit.
Sancor™ Microbe Accelerator	8 oz.	Added to Envirolet™ System every two weeks with warm water to accelerate the composting process.
Envirolet™ Premix Starter	1	Used for initial and seasonal System start-up. Paper Mat is pre-installed in System. Do not remove Paper Mat.
Envirolet™ Waterless Toilet	1	Toilet that is located in the bathroom above waterless composting unit.
Removable Sanitary Toilet Bowl	1	Removes easily in and out of Waterless Toilet for cleaning.
Toilet Seat with plastic mounting hardware	1	Standard toilet seat. White seat is standard with white toilets. Oak seat standard with all other colors.
Round Rubber Floor Gasket	1	Adhesive rubber sealing gasket that is attached to bottom of Waterless Toilet.
1/2" x 2 1/4" Floor Fastener Bolt with 1/2" Hex Nut	2 each	Stainless steel bolt and nut used to secure Waterless Toilet to bathroom floor.
1 3/8" Washer (Large) and 1 1/4" Washer (Small)	2 each	Stainless steel washers used to secure Waterless Toilet to bathroom floor.
Corner Bracket ("L" Bracket) with 2 x 1/2" Screw	2 sets	Corner Bracket with stainless steel screws to secure Waterless Toilet to bottom of bathroom floor.
Drain Kit (installed Filter Tray and Tube and also includes 5' x 3/8" Nylon Drain Line, Quick Connect "T")	1 kit	2-Stage Pre-Sediment Filter Drain that must connect to a proper drain site. Optional accessory with Waterless 110v Electric models.
Remote Switch (optional for some Systems)	1	Allows for bathroom control of Fans or Fans & Heater operation. Optional accessory with 12v Battery or 110v Electric models.

# **Installation of Waterless Toilet in Bathroom**

## **1. Unpack Carton**

Remove your Waterless Toilet & Accessories from carton. Also remove the Grey Bowl from the Waterless Toilet.

**IMPORTANT:** Do not discard oval Cardboard Toilet Hole Guide located in carton (marked "GUIDE FOR TOILET HOLE IN FLOOR"). The oval Cardboard Toilet Hole Guide included in the box is to help you position your Waterless Toilet in the bathroom. Position Guide on bathroom floor with Left and Right markings on respective side (as seen in diagram).

## **2. Position Toilet Hole**

Position Cardboard Toilet Hole Guide on bathroom floor (**Important:** Position between any joists located below floor to allow for the proper below floor installation and connection of the 8" flex drain pipe to the Remote Composting Unit). Depending on your available bathroom space, measure and allow 8" to 13" or more distance from the wall to the outside edge of the round Cardboard Toilet Hole Guide. (The 8" distance from wall installs toilet almost flush to wall. Greater than 8" or more allows for easier replacement of toilet seat through the back cavity of the toilet).

## **3. Using Cardboard Hole Guide**

When the oval Cardboard Hole Guide is in the correct position, using a pencil, draw a line around the outside edge of the oval Cardboard Hole Guide (approximately 9 1/8" diameter floor hole cutout).

## **4. Cut Out Toilet Hole in Floor**

Carefully cut out the 9 1/8" hole in floor using either a jig saw or keyhole saw on outside edge of line drawn. File or sand gently the sides of the hole to eliminate any rough surfaces. Position the Waterless Toilet over and through the hole in floor. If hole size is too tight, then remove Waterless Toilet and file edges to enlarge hole to permit proper fit. If necessary, replace the Waterless Toilet back in the hole.

## **5. Position Toilet Floor Fasteners**

Align Waterless Toilet in the proper position in your bathroom. Using a pencil, trace on floor around the edges of the "U" Channel (located on both the left and right rear floor sides of the Waterless Toilet). Remove the Waterless Toilet and mark holes in the center of each of the "U" Channels:

*Draw a horizontal line between the two marks. Locate each hole-point 4 1/2" from the left and right of a center point line that intersects the horizontal line (a line approximately 2 1/4" long drawn vertically from the center point of the outside back edge of the hole drawn on the floor through the horizontal line). See diagram.*

## **6. Drill 1/2" Holes for Floor Fasteners**

Now drill the two holes (1/2" diameter) in the floor through the marked hole-points to allow installation of the Floor Fasteners.

## **7. Install Round Rubber Gasket Seal**

Install the provided Round Rubber Gasket Seal (remove paper from bottom side of gasket seal and affix adhesive side to toilet body) in the circular groove located on the bottom side of the Waterless Toilet.

## **8. Install Toilet Seat**

Install the Toilet Seat with the Seat Hardware provided. The back of toilet cavity is open to allow for easy installation.

## **9. Install Floor Fasteners**

Replace Waterless Toilet back in floor hole and position in the proper location with left and right "U" Channels aligned with floor holes. Now install both left and right Floor Fastener Hardware. Insert both 2 1/4" Bolts with a Large (1 3/8") Washers each through the "U" Channels on the Waterless Toilet. The Bolts will drop through the 1/2" holes in the floor. From the bottom of the floor, slide the Small (1 1/4") Washers over the Bolts protruding from above floor and secure and tighten each with the Nuts provided. Use a 3/4" wrench or socket tool to tighten the Nuts and Bolts. Ensure Waterless Toilet is secured to the floor. Do not over tighten.

## **10. Install Corner Brackets (Below The Floor)**

*You may wish to have someone sit on toilet above to compress Round Rubber Gasket Seal to floor during Corner Bracket installation.*

Use the Corner Brackets provided to further secure the Waterless Toilet below the floor only. Install the two Corner Brackets using the four 1/2" screws provided. First position one Corner Bracket at the "front" wall of the toilet chute (protruding below floor) and install by placing the Corner Bracket snug against both the bottom of the floor and the toilet chute wall. Screw the Corner Bracket first to the floor and then to the toilet chute. Now install the second Corner Bracket to the opposite or "back" wall of the toilet chute in the same manner. See diagram.

## **11. Install Grey Toilet Bowl**

Lift the Toilet Seat and Lid and insert the Grey Toilet Bowl into your Waterless Toilet. The bowl removes for easy, sanitary cleaning. Your bathroom Waterless Toilet is now installed. Next, you have to attach the Waterless Toilet to the Composting Unit below.

# **Connection of Waterless Toilet to Composting Unit**

## **1. Connecting 8" Flex Drain to Composting Unit**

Position 8" opening on Waterless Remote System Composting Unit directly below Waterless Toilet chute. Measure the distance from the top of the 8" opening on the Composting Unit to the bottom of the Waterless Toilet chute and add 5". Use this measurement to cut the 8" Flex Drain pipe to size.

## **2. Insert 8" Flex Drain into Composting Unit**

Insert 8" Flex Drain pipe through 8" opening on Composting Unit (approximately 3"). This connection can optionally be sealed with silicone sealant.

## **3. Connect 8" Drain to Waterless Toilet Chute**

Connect 8" Flex Drain pipe to Waterless Toilet chute. Slide 8" Flex Drain over chute until it is stopped by angled section of chute. Use 8" Gear Clamp to secure 8" Flex Drain to Waterless Toilet.

## **Vent Installation**

**IMPORTANT:** It is recommended for Non-Electric Systems that the 4" vent pipe be installed straight-up, with no angles or bends in the venting system. This will ensure proper vent draft and evaporation, and prevent any inside odor. **Do not install any 90° bends in your vent installation with any System.**

## **1. Connect 4" Flex Vent to Composting Unit**

Connect 4" Flex Vent pipe to Waterless Remote Composting Unit using the 4" Gear Clamp supplied. Based on your individual installation requirements, you may wish to reduce the length of the 4" Flex Vent pipe (4' is standard amount supplied). Install at least 12" or more of 4" Flex Vent to connect the Composting Unit to the 4" ABS pipe rigid pipe (not supplied) with the 4" ABS coupling (supplied) connected to the 4" Flex Vent pipe.

## **2. Installation of 4" ABS Rigid Vent Pipe (not supplied)**

For proper sizing of the 4" ABS vent pipe, allow at least 2 - 3 feet of ABS rigid vent pipe to extend above the roof line to ensure proper vent draft and maximum performance of the 4" Wind Turbine. If necessary, extend the 4" ABS vent pipe higher for any vent installation surrounded by high trees, with a high roof peak and/or located in a valley.

**Note:** Additional materials, not supplied with your System, may be required to install your specific vent installation (e.g., additional 4" ABS couplings, silicone sealant, pipe wall supports, hardware, etc.). Call Sancor™ Technical Support with any questions regarding proper installation of your Envirolet™ Composting Toilet System.

### 3. Attach Wind Turbine

Attach 4" Wind Turbine to top of 4" ABS vent pipe. A 4" ABS coupling may be required to attach your Wind Turbine. Secure Wind Turbine with silicone sealant and 2-3 tapping screws (not supplied). Seal all vent joints securely with silicone sealant to prevent any odor leakage.

## **Start-Up of Envirolet™ Waterless Remote System**

**IMPORTANT:** Do not remove Paper Mat from System. The Paper Mat used to prevent the Premix Starter Kit material from dropping directly into the Collecting Tray. It will eventually breakdown in the System.

### 1. System Start-Up

Open service port on the Composting Unit and spread contents of Envirolet™ Premix Starter material (found in clear plastic bag) over the pre-installed Paper Mat located below the Rake Bar. This will activate your System.

### 2. Power Supply Instructions for Different Models

**Electric Models:** For 110v Electric models, connect the power supply cord only to covered and approved 110v three (3) prong plug connection. In 220v Electric models, connect the power supply cord only to covered and approved 220v three (3) prong plug connection.

**Do not hard wire or cut electrical power supply cord.  
This may create safety hazard or cause fire.**

**12v Models:** Battery(s) not supplied. For 12v models, connect power supply cord to a 12v battery(s) only. Battery(s) must be marine or deep cycle. For optimum system operation use 12 VOLTS @ 220 AMPS battery(s) Connect power supply cord, using battery connectors as follows:



BLACK to NEGATIVE



WHITE to POSITIVE



**Non-Electric Models:** No power supply connection required. Ensure that vent system is installed straight-up with no angles or bends.

### **3. 2-Stage Pre-Sediment Filter Drain (\* refer to diagram)**

A 2-Stage Pre-Sediment Filter Drain is standard on all Envirolet™ Waterless Remote Systems, except 110v Electric models. 110v Electric models do not require a drain normally, but an optional Drain Kit is available for Systems with above normal use or in applications where the power is not going to be used all of the time (not recommended). The 2-Stage Pre-Sediment Filter Drain provides overflow protection as well as increased liquid capacity.

A small section (approximately 2-3") of 3/8" Nylon Drain line is pre-connected to the white liquid tight bushing on the right side of your System. Attach this small section to the Quick Connect Breather "T" with "T" in up position. It is very important to always have the "T" in the up position to prevent leakage. Connect 5' (or longer) section of 3/8" Nylon Drain to opposite side of "T." Drain **must** gravity feed to a proper drain site (e.g., leaching pit, cesspool, septic system, 5-10 gallon plastic container, or other regulation drain field.)

### **4. Your Envirolet™ is now ready to operate!**

**TIP:** Your Envirolet™ Waterless Toilet can be cleaned and polished with Armor-All® Protectant for a great shine!

**If you require any assistance, please do not hesitate to contact SANCOR™ Technical Support (9am - 4pm EST, Monday - Friday) at:**

**USA 1-800-387-5126    CDA 1-800-387-5245    Direct 416-299-4818**