



USER GUIDE (USE AND MAINTENANCE)

Class B – Basic Treatment

Residential application area New Brunswick

System certified by the Bureau de Normalisation du Québec
CAN/BNQ 3680-600 standard
NQ 3680-910 standard

CAN/BNQ 3680-600



Important



It is extremely dangerous and even potentially fatal to enter a septic tank, a pumping station or any confined space that is part of a wastewater treatment system. This work must be performed by a person trained in confined space work and rescue procedures and equipped with the required equipment.

The action of bacteria on organic matter in wastewater results in the production of gases, such as carbon dioxide (CO₂), methane (CH₄) and hydrogen sulphide (H₂S). H₂S in the septic tank or in a pumping station can cause an individual's death within minutes. Therefore, this work must be carried out by a competent person.



Pipes and electrical wires are buried near your septic system. Please contact your installer or a qualified person to take the necessary precautions before digging or undertaking excavation work in the vicinity of your septic system.



Please ensure that the covers of the septic tank, pumping station, distribution device, piezometers and sampling device are always in place and accessible at all times to facilitate periodic inspections and interventions when required (e. g. septic tank drains).

Table of Contents

1.	Introduction	3
2.	System O)) Use and Maintenance	4
3.	System O)) - Class B.....	8
	Appendix 1 - Water Level Registry	16
	Appendix 2 - General information	17

1. Introduction

Congratulations, dear customer! You have chosen System O)) for your septic system. Your system has been designed to effectively treat the wastewater from your home. However, certain instructions must be followed in order to maintain its purifying performance level and for you to be able to use it for many years to come.

We therefore invite you to review the content of this document and keep it on file for your reference if necessary.

Purpose of this document

This guide explains the rules for use and monitoring in order to ensure the proper functioning of a System O)) domestic wastewater treatment system.

Please note that it is the owner's responsibility to ensure that their system is used correctly and according to the expected processing capacity. The owner is also responsible for complying with the requirements of local regulations.

Contact details for customer service and technical support

Contact J&L Marketing if additional information is required. Here are the contact details:

Telephone: (506) 461-0924

E-mail: systemoatlantic@outlook.com

Website: <https://www.systemoatlantic.ca>

2. System O)) Use and Maintenance

Background	<p>In the following paragraphs, you will find the basic rules to follow in order to ensure the proper functioning of your septic system. To make it easier to understand, they are presented as things to do or not to do</p>
Volume of wastewater	<p>Large volumes of water leaving the house and going into a septic system within a short period of time have a negative impact on your wastewater treatment system. Therefore, spreading out your water usage throughout the day helps minimize this impact.</p> <p>You must ensure that the volume of wastewater discharged to the septic tank and System O)) is reasonable. Remember that your system is designed according to an estimated daily flow.</p> <p>If you plan on adding a bedroom or the vocation of the residence changes from what it was when the system was built, be sure to contact a competent person to ensure that your septic system has the capacity to treat and infiltrate the pollutant loads and wastewater volumes that will then be generated.</p>
In the bathroom	<p>You must:</p> <ul style="list-style-type: none">● Immediately repair any leaks from the faucet or toilet.● Use a reasonable amount of toilet paper. <p>You must not:</p> <ul style="list-style-type: none">● Use a tablet toilet disinfectant, whether placed in the toilet bowl or in the tank.● Throw cigarette butts or medication in the toilet.● Throw tissues, paper towels or other personal hygiene products in the toilet.
In the kitchen	<p>You must:</p> <ul style="list-style-type: none">● Immediately repair any leaks in the faucet.● Use dishwashing soap (or dishwasher soap) low in phosphate (0 à 5 %);● Use only the amount of soap required to do the job. Please note that the quantity required is often less than that suggested by the manufacturer. <p>You must not:</p> <ul style="list-style-type: none">● Use a waste shredder that would be connected to your septic system.

- Place vegetables, meat, fats, oils, coffee beans or any other product **not previously assimilated** directly into your septic system.

For the laundry**You must:**

- Use phosphate-free laundry soap. Preferably use liquid soap. If this is not possible, use rapidly biodegradable powdered soap.
- Use only the amount of soap required to do the job.

Please note that the quantity required is often less than that suggested by the manufacturer.

- Minimize as much as possible the volume of water used for laundry according to the amount of clothes to be washed.
- Spreading wash loads over the week rather than doing all the washing on the same day is also a recommended practice for any wastewater treatment system.
- Spreading the loads of laundry over the entire week rather than doing all the laundry on the same day is also a recommended practice for any wastewater treatment device.

Elsewhere in and around the house**You must:**

- Remove drainage water from the site where your septic system is installed.

You must not:

- Connect the outlet of the drinking water softening system (used for cleaning cycles) to the septic system.
- Connect the outlet of pool filters, whirlpools or other devices discharging chlorine-treated water to the septic system.
- Connect the outlet of gutters, drainage pipes or a sump pump to the septic system.
- Discard solvents, paints, antifreeze, motor oils, floor waxes, carpet cleaners, pipe cleaners, or other toxic or flammable products in the septic system. Also, do not allow water from brushes or rollers that have been used to apply latex paint to flow to the septic system (latex paint contains elements that are harmful to the septic system).
- Discard animal bedding, tea bags, ground coffee, egg shells, cigarette butts, paper towels, condoms, diapers or sanitary napkins in the septic system.

Chemicals Used in the Septic System

Your System O)) does not require any starting chemicals, cleaners or other additives. The bacteria that carry out the treatment are naturally present in the wastewater of an isolated residence. Any chemicals or

additives added to the system could have a negative impact on your system.

Ventilation

Good ventilation is essential for the proper functioning of your System O)). The vent(s) installed at the ends of the treatment system promote this aeration. It is important to ensure that the opening is not obstructed and that air can circulate freely at all times. Air enters through the vent, flows through the System O)) and septic tank and then exits through the plumbing vent of the residence's roof.

The owner must ensure that there is a vent on the roof and that the vent is clear at all times.

When a pumping station is used, an additional bypass line or vent must be present to ensure the aerated circuit.

Motorized Traffic and Heavy Vehicles

Do not drive any vehicle over a septic system before, during or after its construction.
A lawn mower is acceptable.

Vegetation

The surface of the treatment system must be grassed. The lawn should be cut regularly to encourage regrowth without the use of fertilizers. However, trees or other plants with invasive roots should not be planted near the treatment system (minimum distance of 3 metres).

Owner's responsibilities

- Use your System O)) according to the instructions presented in this user guide;
- **Have your septic tank emptied in accordance with the rules in force;**
- Record information regarding septic tank emptying;
- **Have the effluent filter and pumping station (if applicable) maintained as per the manufacturer's instructions and record the information in a logbook;**
- Ensure that the vent opening is clear and, if a short vent is used in summer, replace it with the normal vent in winter; Ensure
- access at all times to System O)) (piezometer, distribution devices, sampler covers and vents; Comply with the requirements
- of applicable laws and regulations; Periodically check the water level in the piezometers (see water level measurement procedure)
- or have this work performed by a qualified person.

Qualified person

A person qualified to perform the maintenance or inspection of a System O)) is a person who has been trained by DBO Expert's local distributor to perform a task associated with the System O)). For more information, contact J&L Marketing at:

Telephone: (506) 461-0924

Email: systemoatlantic@outlook.com

For the maintenance of your pumping station (if applicable), you must refer to the user guide proposed by the manufacturer of these equipment.

The septic tank must be emptied by a specialized firm. Check with your municipality to find out which companies in your area are qualified to do this work.

3. System O)) - Class B

Background

Liquid leaves the house and enters the septic tank where it is treated. The solids sink to bottom of the septic tank while the greases and fats float to the surface. The clarified water passes through the effluent filter and flows into the System O)). As wastewater flows into the System O)) it is treated by the Advanced Enviro))Septic pipes and filter sand before being infiltrated or discharged into the environment. System O)) – Class B is a passive wastewater treatment technology. If properly installed, the system requires very little action to be taken during daily, intermittent use or after a prolonged absence.

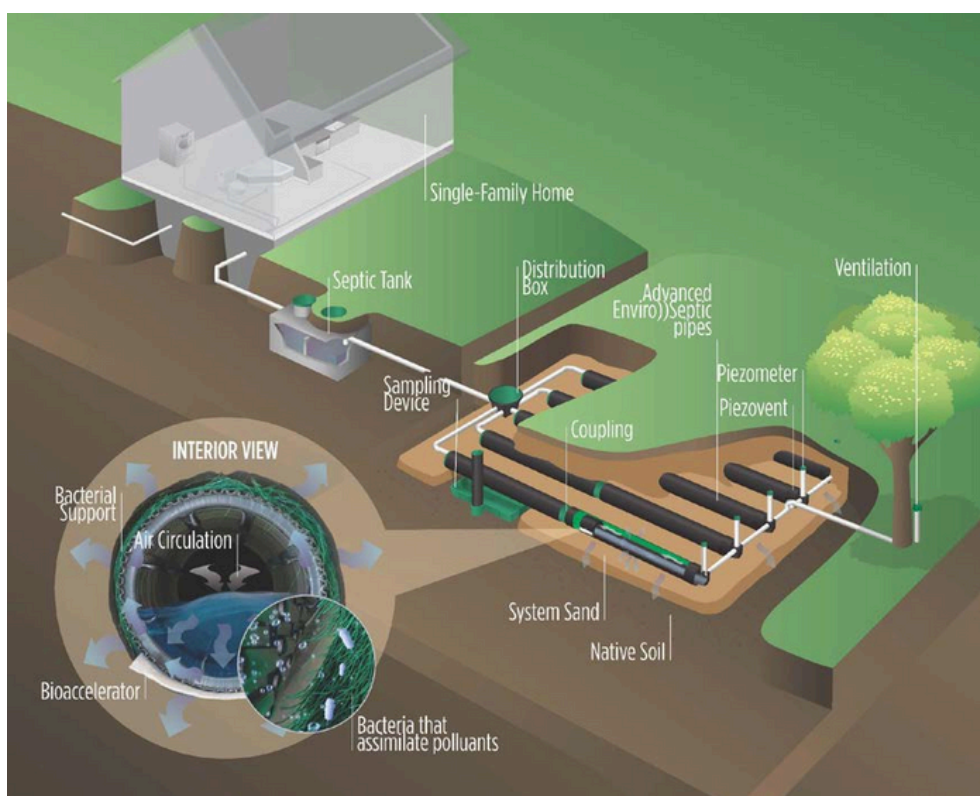


Figure 2 – System O)) – Class B

What to do in case of problems?

If, during normal use of the treatment system, any of the following phenomena are observed:

- Abnormally wet ground, persistent puddles of water or odours around the location of the septic tank or System O)) – Class B;
- Backflow into toilets or other sanitary devices in the residence;
- Presence of abnormally abundant vegetation on and around the surface of the septic tank or System O)) – Class B;
- Flooding where the System O)) – Class B is installed;
- Backfill erosion above or around System O)) – Class B;
- Pump station alarm if such a device is part of your installation...

...contact your installer or J&L Marketing at (506) 461-0924 and have your system documents on hand.

Caution: Please note that the situations described above may occur on any septic system, whether it has been built with a System O)), another certified wastewater treatment technology. When they occur, these problematic situations are generally caused by a defective installation, a malfunction of the building's plumbing attached to the treatment system, extreme climatic or geological factors, or a flow of surface water to the septic system.

Section A – Maintenance program

Background	<p>System O)) – Class B requires periodic monitoring, which could result in some maintenance.</p> <p>However, it should be noted that the septic tank, effluent filter and pumping station may require more extensive maintenance depending on the regulations or guidelines of the manufacturer of these systems.</p> <p>It is important to take into account the evolution of the septic system. That is why good monitoring involves compiling data on the state of the system during inspection. Appendix 2 provides a form that can be used for this purpose.</p>
Precautions to be taken	<p>The water in the septic tank, pipes and piezometers is wastewater. Resurgent water can also be contaminated. Therefore, certain precautions must be taken. The person inspecting a septic system must protect himself or herself properly. Work clothing, goggles and protective gloves are required. The use of disposable protective gloves is recommended. To avoid possible contamination, avoid direct contact with wastewater.</p>
Effluent filter	<p>The effluent filter must be cleaned twice a year to avoid clogging.</p> <p>If it is not cleaned regularly, there may be backflow of untreated wastewater into the residence or blockage of air flow resulting in odors and System O)) malfunctions.</p>
Piezometers	<p>The piezometers allow you to measure the level of water throughout the different rows of the System O)).</p> <p>It must be ensured that the caps are always in place.</p> <ol style="list-style-type: none">1- Remove the cap from the piezometer to be measured.2- Slide a wooden or a meter stick into the piezometer so that its end soaks in water that may be present at the bottom of the piezometer.3- Using a ruler (or a measuring tape), determine the water level in the pipe by measuring the height of the wet area.4- Replace the cap on the piezometer.5- Repeat for every piezometer.

It is normal to have fluctuations in the water level throughout the day. If the water level reaches 180 mm, please contact a qualified person.

Distribution device

If there's a difference of more than 100 mm (4 inches) of water between two piezometers, a recalibration of the equalizers or a maintenance of the distribution devices is required. Please contact a qualified person.

Sampling device

System O)) – Class B has an optional sampling well.

The sampling device does not need to be maintained. However, it must be ensured that the cap remains in place and is held in position with a plastic clip.

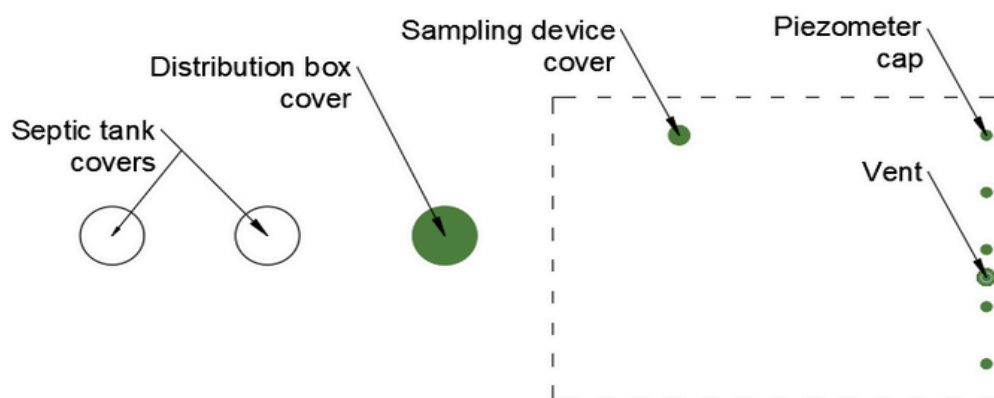
Apparent elements of the septic system above ground level


Figure 4

Note: The position of the elements may vary depending on the configuration performed. The position of the septic tank is indicated by dotted lines. The position of the System O)) is represented by the large rectangle. These three elements are not visible from the surface. Only the vent and covers of the septic tank, distribution box, sampling device and piezometer(s) are visible above the ground surface. If a pumping station is used, its cover will also be visible above ground level.

Vent	<p>The vent requires no maintenance. However, the owner must ensure that there is no obstruction to air circulation. In winter, the pipe opening must be high enough so that the snow does not block the passage of air. At all times, there must also be a minimum difference of 3 meters between the inlet vent located at the end of the System O)) – Class B and the outlet vent generally located on the roof.</p>
Pumping station	<p>Please refer to the manufacturers guide for maintenance instructions.</p>
Surface of the System O))	<p>The surface of the System O)) must be covered with grassy vegetation. The lawn must also be cut regularly. Any impressions that develop over time must be filled in with soil to avoid any accumulation of water above the system and to prevent erosion.</p> <p>If plants with taproots are installed on the treatment system, they must be removed as they could damage the components of the system.</p>
Summary table of the maintenance	<p>The table on the next page provides a summary of the follow-up to be done on each of the components of the System O)) – Class B. Follow-up tasks that cannot be performed by the owner must be performed by a qualified person.</p>

Table 4 - Components System O)) - Class B

Component	Function	Steps to Follow	Frequency	Responsibility
Septic Tank	Primary wastewater treatment	Periodic emptying	According to local regulations	Owner (work must be done by a qualified person)
Effluent filter	Retention of solids larger than the maximum opening of the filter.	Periodic cleaning	Twice a year	Owner
Distribution devices A) Distribution box Polylok and equalizers B) Low pressure distribution system	Distribute water from the septic tank to the rows of the System O))	A) According to the level of water in the piezometers.	A) As needed	A) Owner (it is preferable that this work be done by a qualified person)
		B) According to the water levels in the piezometers.	B) If necessary	B) By qualified person
Piezometers	Indicate the water level in the pipe rows	Water level measurement	Once or twice a year and as a preventive measure, before the septic tank is emptied.	Owner or Qualified person
Sampling device (optional)	Check the purifying performance and measure the level of water in the System O))	Optional	Optional	Owner or Qualified person
Vent	Allow air to pass through the System O))	Check that the opening is not blocked	Twice a year	Owner
Pumping station (if applicable)	Water uplift to System O))	According to the supplier's specifications		

Visual Inspection

During the inspection of the treatment system:

- Check that the soil is stable above and around the treatment system and covered with herbaceous vegetation;
- Determine if there are any warning signs of a problematic situation such as spongy or wet soil, presence of weeds, presence of resurgence or soil erosion.

It is suggested to take photos showing the condition of the septic system during the inspection and to keep these photos on file.

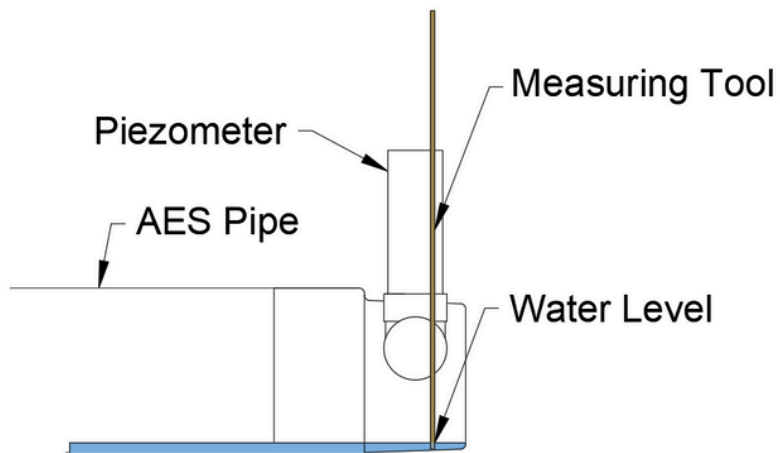


Figure 6 – Water level measurement.

Section C – 20-Year Limited Warranty Certificate



PIPE WARRANTY CERTIFICATE FOR SYSTEM O)) WASTEWATER TREATMENT TECHNOLOGY

1. PREAMBLE

DBO Expert Inc. (hereinafter "DBO") offers owners (including subsequent owners subject to compliance with the terms of Section 7 of this Agreement) of its System O)) wastewater treatment technology a warranty on the Advanced Enviro))Septic pipes (hereinafter the "Pipes") that are at the heart of System O)).

2. SCOPE OF THE WARRANTY

DBO provides a warranty on the Pipes against any manufacturing defects for a period of 20 years from the date of manufacture. The warranty does not cover labour costs, only the cost of the Pipes. A manufacturing defect means any imperfection or breakage affecting the Pipes caused by or occurring during the manufacturing process. This warranty is limited to the Province of New-Brunswick.

3. EXCLUSIONS

This warranty does not apply in the following cases:

- Any damage or problem caused by an Act of God such as, without limiting the general scope of the foregoing, earthquake, flood, hurricane, landslide, explosion, blasting, rising water table;
- Any damage or problem resulting from an installation that was not performed in compliance with the Installation Guide provided by DBO;
- Any damage or problem resulting from improper use or maintenance that was not performed according to the instructions provided in the User Guide (Use and Maintenance) provided by DBO;
- Any damage caused by the fault or act of a third party or the owner;
- Any damage resulting from any modification, displacement, correction, or addition made by any person not authorized by DBO.

4. CONDITIONS TO EXERCISE THE WARRANTY

The owner may not perform or have any repairs or checks performed on the System O)) wastewater treatment technology, or attempt to perform any work or make any corrections before such work without first notifying DBO and without DBO or DBO Expert authorized representative having visited the premises to determine the scope of the problem, within a reasonable timeframe after receiving such notice.

5. LIMITATION OF THE WARRANTY

DBO's liability under this warranty shall be limited to the cost of the Pipes only and DBO shall not be liable for any other damage or loss that may be sustained by the owner or any other component of the System O)) wastewater treatment technology.

6. EXERCISE OF THE WARRANTY

In order to exercise this warranty, the owner shall notify DBO in writing immediately upon the appearance of any indication or sign that the integrity of the Pipes has been compromised in whole or in part (e.g. ground subsidence). This notice shall be sent by mail to 501 Giroux Road, Sherbrooke, QC J1C 0J8 or by e-mail to info@dboexpert.com. Within 15 days of receipt of this notice, DBO will take the necessary steps to assess the situation. The owner shall allow DBO and/or its representatives to perform all necessary checks and inspections for the exercising of this warranty. If the steps undertaken by DBO conclude that no manufacturing defect is found on the Pipes or that the guarantee is excluded here under, a minimum amount of \$125 plus any expenses incurred shall be borne by the owner.

7. TRANSFER OF OWNERSHIP

In the event of the sale, assignment, alienation, or disposition of the property by the owner to a third party, this warranty shall continue to apply. The owner or new owner shall notify DBO of such transfer in writing within 30 days of the transaction either by mail or e-mail. Should such notice of transfer fail to be sent within the prescribed time, DBO may unilaterally terminate this warranty within 30 days of learning about the transfer of the property.

8. SCOPE

The warranty shall ensure the benefit of and be binding upon the parties hereto and their respective heirs, successors, legal representatives, and assigns.

10. ELECTION OF DOMICILE

The parties agree, in respect of any non-contractual or contractual claims or legal proceedings for any reason relating to this warranty or to their relations, to choose the judicial district of Saint-François, Province of Quebec, Canada, as the appropriate venue for the hearing of such claims or prosecutions, excluding any other judicial district that may have jurisdiction over such litigation as stipulated by law.



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Appendix 1 - Water Level Registry

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Appendix 2 - General information

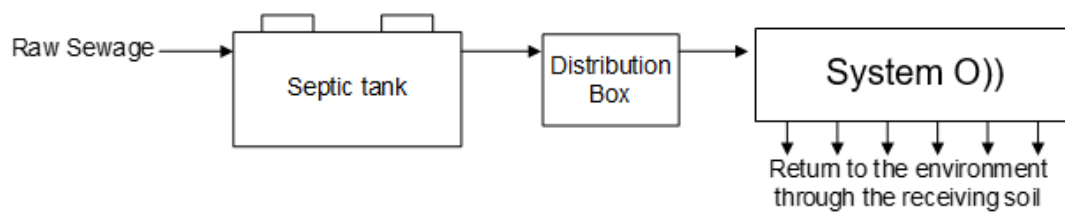
Name: System O))

Model:

- O-B-30-G (gravity-fed)
- O-B-30-P (pumped)

Field of use: Residential This system cannot be used to treat wastewater to make it potable. It is designed to treat domestic wastewater to an acceptable level so that it can be discharged to the environment in accordance with local regulations.

Class B - Discharge by infiltration into the ground





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