



## Owner's manual

# REWATEC™

Phosphorus removal unit (DpEC)



Certified  
to BNQ  
standard  
NQ 3680-910



Certified  
to CAN/BNQ  
standard  
3680-600



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# Owner's manual |

## Phosphorus removal unit (DpEC)

Congratulations on your purchase of a **phosphorus removal unit (DpEC)** from Premier Tech, which may be followed or not by a watertight sand filter. With the phosphorus removal unit (DpEC), you have wisely chosen to protect your health and your environment.

The phosphorus removal unit (DpEC), a system consisting of a primary reactor and an electrocoagulation unit (EC unit), is designed to remove phosphorus from wastewater. The phosphorus removal unit (DpEC) is certified according to the NQ 3680-910 and CAN/BNQ 3680-600 standards. This system may be followed by a watertight sand filter. When the phosphorus removal unit (DpEC) is combined with a watertight sand filter, it is an NQ 3680-910 and CAN/BNQ 3680-600 certified disinfection system.

This document contains information concerning the operating guidelines, the maintenance as well as the warranties of the phosphorus removal unit (DpEC) and the sand filter.

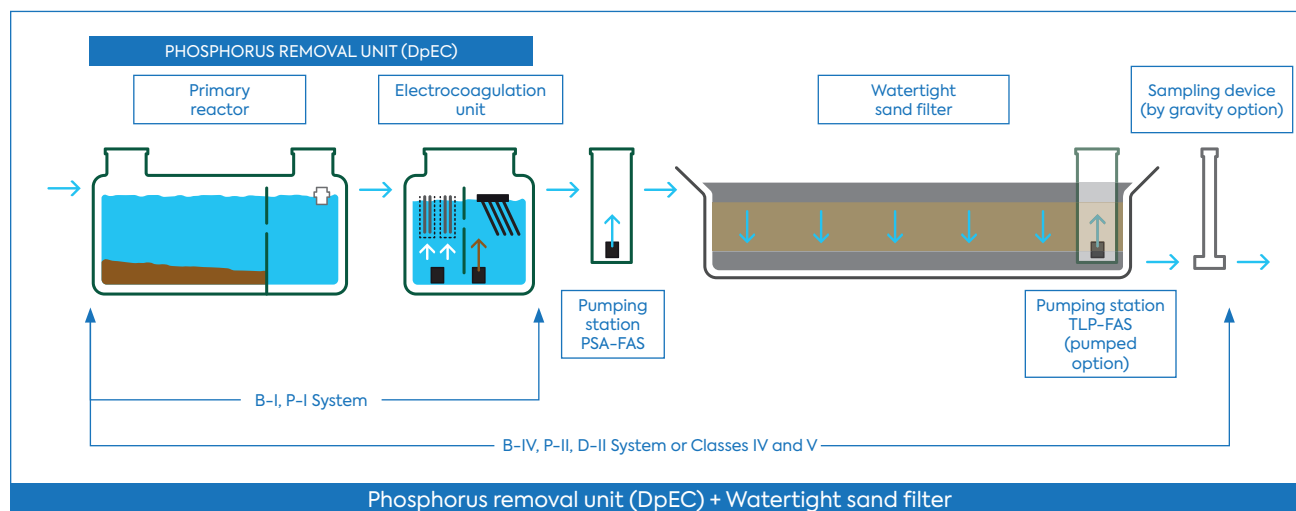
For additional information, please contact our Customer service department at 1-800-632-6356 or visit our website at [PT-WaterEnvironment.com](http://PT-WaterEnvironment.com).

## 1. OPERATING PRINCIPLES

In Quebec, the management of wastewater in isolated residence is governed by the *regulation respecting wastewater disposal systems for isolated dwelling (Q-2, r.22)*. These systems are specifically designed to treat residential wastewater to a level allowing for the treated effluent to be safely returned to the environment and harmless to public health.

The treatment systems designed by Premier Tech are a technological advancement based on phosphorus removal by electrocoagulation. This technology, specially developed to treat wastewater from onsite applications, may be installed upstream of a conventional wastewater system for the treatment of wastewater from isolated dwellings. In Quebec, such dwellings include residences with a maximum of six bedrooms (single or multi-family homes) as well as all other buildings or infrastructures rejecting wastewater exclusively of comparable nature.

The **phosphorus removal unit (DpEC)** is composed of a primary reactor and an EC unit.





## 1.1 PRIMARY REACTOR

The untreated wastewater first makes its way from the dwelling to the primary reactor. The primary reactor plays the triple role of clarifying the wastewater by letting suspended solids settle to the bottom and retaining floating matter to prevent premature clogging of the system, regulating effluent flow discharged in the EC unit, serving as a holding tank for the returning sludge from the EC unit. The primary reactor is equipped with a flow regulating device in its outlet designed to float atop the retention volume water level to allow a constant outflow to be discharged by gravity into the EC unit and available in both concrete and polyethylene option.

Number of bedrooms	Maximum daily flow (L/d)	Polyethylene primary reactor	Concrete primary reactor	Phosphorus removal number of units
1	540	PRT-660P	PRT-660B	1
2	1 080	PRT-660P	PRT-660B	1
3	1 260	PRT-660P	PRT-660B	1
4	1 440	PRT-660P	PRT-660B	1
5	1 800	PRT-960P	PRT-960B	1
6*	2 160	PRT-960P	PRT-960B	1

## 1.2 EC UNIT

The EC unit is divided into two distinct zones. The **reaction zone** (where the aluminium electrodes are located) and the **separation zone** (where the lamella separator is located). The **reaction zone** is characterized by a turbulent regime, whereas the **separation zone** is operated by a decanting regime. Independence between the two different regimes is ensured by the non water-tight divider baffle. The separation zone is equipped with a lamella separator and a sludge pump that periodically returns the sludge to the primary reactor.

### 1.2.1 Reaction zone

The main components of the reaction zone are:

- Two pairs of electrified aluminium electrodes (anode and cathode), each housed in a screen-mesh cage that allows free water circulation while containing the self-cleaning media around the electrodes. During system operation, the wastewater is mixed with aluminium particles freed from the electrodes. The aluminium-charged effluent from the reaction zone then transfers freely to the separation zone.
- The cleaning of the electrodes' surfaces relies on an anti-passivation system. Biomass and oxide films that tend to form on the surfaces are continuously cleaned, allowing the electrodes to continue to operate. This anti-passivation system is composed of an agitating pump connected to a series of manifolds. Eductors are mounted to each manifold, optimizing the turbulence in the chamber and giving the self-cleaning media sufficient velocity to dislodge all biomass on the electrode's surface.

### 1.2.2 Separation zone

The main components of the separation zone are:

- A lamella separator with an equivalent capacity to that of a regular separating tank of 3 m<sup>2</sup>. This technology allows a single tank to be used to accomplish both treatment steps of electrocoagulation and separation, thus reducing the size of the installation. To be discharged, the effluent from the EC unit must go through the lamella separator from the bottom up, abandoning on its way flocs and residues on the lamellae. The separated effluent is then collected in a gutter at the top of the separator and then discharged to the treatment system downstream.
- A second pump, located under the lamella separator, is programmed to return the sludge to the primary reactor at fixed-time intervals.

The primary reactor model PRT-660 is designed to treat up to 1,440 L/d (up to 4 bedrooms). the primary reactor model PRT-960, composed of 2 tanks installed in series, is designed to treat up to 2,160 L/d (up to 6 bedrooms). The EC unit, model DpEC-090 can also treat up to 2,160 L/d (up to 6 bedrooms). As the primary reactor the electroagulation unit is available in concrete or polyethylene. Designation of different models is show in the table below.

Number of bedrooms	Maximum daily flow (L/d)	Polyethylene Electrocoagulation unit	Concrete Electrocoagulation unit
1	540	DpEC-090P	DpEC-090B
2	1 080	DpEC-090P	DpEC-090B
3	1 260	DpEC-090P	DpEC-090B
4	1 440	DpEC-090P	DpEC-090B
5	1 800	DpEC-090P	DpEC-090B
6*	2 160	DpEC-090P	DpEC-090B

### 1.3 WATERTIGHT SAND FILTER

The watertight sand filter is a wastewater treatment system whose design is based on the replacement of the natural soil layer by a filtering media. The sand filter unit combined with a phosphorus removal unit (DpEC) provides an efficient solution for phosphorus removal and for disinfection.

At the phosphorus removal unit (DpEC) effluent, the wastewater is directed to the watertight sand filter by a pumping station to feed the distribution device. The water percolates vertically through the sand bed and then collected by a network of perforated pipes located on the gravel bed at the base of the watertight sand filter.

The sand filter allows continuous or intermittent use without requiring any special precautions and without any impact on the quality of the treatment. The owner has no particular action to make to bring the system into operation; the owner only needs to ensure compliance with the operating instructions described below.

The dimensions of the watertight sand filter are determined by the number of bedrooms in the residence or by the total daily flow of wastewater coming from the residence and any domestic wastewater coming from any other type of building.

#### 1.3.1 Dimensions of the watertight sand filter

Total daily flow	Number of bedrooms	Length of the sand filter	Width of the sand filter
1,080 L	2 and less	6.4 m	3 m
1,260 L	3		
1,440 L	4		
1,800 L	5		4.5 m
2,160 L	6		

### 1.4 TRIGGERING SYSTEM START-UP

The start-up of the **phosphorus removal unit (DpEC)** (i.e. the electrification of the Electrodes and Agitating Pump) can be performed two ways. However, two simultaneous conditions must be taken into consideration. Should one of these two conditions not be met, the system will not start. The device will also detect the presence of incoming wastewater.

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## 2. OPERATING GUIDELINES

### 2.1 TYPES OF WASTEWATER THAT CAN BE TREATED

#### Wastewater Characteristics

The treatment performance of the unit depends of the physicochemical raw wastewaters coming to the treatment chain. These should be typical and balanced in order to be compatible with the biological treatment process and the maintenance of good treatment performance (i.e.: neutral pH, alkalinity and lack of sufficient inhibitory substances).

#### By the phosphorus removal unit (DpEC)

Wastewater from domestic sources from an isolated dwelling. These onsite applications, defined as single-family or multi-family dwellings comprised of six bedrooms or less as well as any other building discharging wastewater of a comparable nature.

#### By the watertight sand filter

Treated domestic wastewater must come from a treatment unit including a phosphorus removal unit (DpEC) certified to NQ 3680-910 and / or Can/BNQ 3680-600 standards.

#### Filtration system for drinking water

If your residence is equipped with a drinking water filtration system (example: water softener, green sand filter, etc.), it is recommended not to direct the backwashing discharges from your drinking water treatment directly upstream of the system. In this case, the preferred approach is to direct this water to the pumping station located downstream of the DpEC unit. This pumping station distributes the pretreated wastewater to the sand filter. The latter completes the treatment of these before their discharge into the receiving environment.

### 2.2 RECOMMENDATIONS

**It is NOT RECOMMENDED to discharge any of the following substances into the treatment system or toilets:**

- Oil and grease (motor oil, cooking oil, etc.);
- Wax and resins;
- Paints and solvents;
- Any kind of petroleum product;
- Any kind of pesticide;
- Any kind of septic tank additive;
- Any kind of toxic substance;
- Anything not easily biodegradable (i.e. coffee beans, cigarette butts, sanitary napkins, tampons, condoms, cotton swab, etc.)



**It is important that anyone using or maintaining the septic installation or property (installer, landscaper, owner, snow removal service, etc.) comply with the following guidelines:**

- Never open or go inside the primary reactor or EC unit.
- Never install the polyethylene Primary Reactor and the EC unit in an area where the groundwater table can reach 30 cm (12") from its base (otherwise, drain pipes could be required).
- Never install the primary reactor and the EC unit in clayey soil without taking precautions.
- Keep all lids of the treatment system accessible at all times. NEVER cover them with mulch, dirt or any permanent structure.
- The profile of the lot must be such that surface run off flows away from the septic system.
- Ensure rapid regrowth of vegetation to prevent soil erosion.
- Once the landscaping is completed, all lids must rise 50 mm (2") above the surface of the finished lot. Never cover or bury the access lids of the phosphorus removal unit (DpEC).
- Limit backfilling above the primary reactor to 50 cm (20"). No additional extension is allowed on the primary reactor.
- Never install an additional riser on the access of the EC unit. Limit backfilling to 15 cm (6").
- Never exceed the maximum height of 710 mm (28") of riser on the pumping station PSA-240-FAS. Note that the PSA-240-FAS pumping station already has a 150 mm (6") PSR-060 riser.
- Never install an additional riser on the access of the TLP-FAS pumping station.



- Respect the minimum distances prescribed by regulations.
- Never plant a tree at distance less than 2 m (6' 5") of sand filter limits.
- The primary reactor and EC unit must be used for disposal of domestic wastewater only.
- Never connect a drain pipe, roof gutter, sump pump or air conditioning drain to your septic system.
- Never discharge water from a spa or pool backwash into any of the components of your septic system.
- Never discharge water from a recreational vehicle (camping trailer, caravan, etc.) into any of the components of your septic system.
- Never use automatic toilet bowl cleaners.
- Never drive vehicles or place objects weighing over 225 kg (500 lb) within 3 m (10') of the lids and notify the persons in charge for the landscaping or maintenance of the property of this restriction.
- Never place any heavy materials (ex: blown snow, embankment/slope) within 3 m (10') of the lids. The overload could damage the system.
- The residence must be equipped with an air vent that is in proper working order and complies with the applicable standards.

By respecting these guidelines, you contribute to the proper operation of your septic system and help prolong the life of your phosphorus removal unit (DpEC). Failure to abide by these guidelines may, at Premier Tech's discretion, render the warranty invalid.

## 2.3 OWNER'S RESPONSIBILITY

The owner must respect all existing laws and regulations regarding the system's effluent quality and its discharge into the environment. The owner of the wastewater treatment system is responsible for its installation, operation and maintenance.

The system's warranty begins upon purchase. Should the start-up be delayed, it is the customer's responsibility to inform Premier Tech so that the first maintenance visit (which is included in the purchase price of the system) can be postponed. No request for delayed start-up will be accepted any later than one (1) year after the purchase date without this affecting the product's warranties.

## 2.4 START-UP

Upon the completed installation of the system, the owner can resume his regular activities with regards to the above mentioned guidelines. It is, however, the responsibility of the owner to verify that all electrical connexions were performed by a certified electrician, and that the alarm box located inside the residence is operational. If the start-up of the system must be performed in cold weather, we recommend contacting the After-Sales Service department of Premier Tech at 1 800 632-6356.

## 2.5 PROLONGED OR INTERMITTENT ABSENCES

The **phosphorus removal unit (DpEC) followed or not by the watertight** sand filter is designed to operate either continuously or intermittently without any intervention being required or impact on treatment quality. However, should your home be uninhabited for a prolonged period or should you need to shut down the residence during the cold season, please contact the After-Sales Service department of Premier Tech to obtain the procedure to follow. This will preserve your system for its entire lifetime.

## 2.6 HEAVY WEIGHTS

Never drive a vehicle or place any objects weighing more than 225 kg (500 lb) within 3 m (10') of the lids. If you are planning some landscaping or any other type of work, make sure to advise those involved so they do not damage your system. Do not let snow (shovelled or blown) accumulate on top of the treatment system. The overload could damage it. Mark or note the location of your system's components.

## 2.7 ABOUT YOUR HOME

Your residence must be equipped with an air vent and all plumbing must comply with all applicable local building code standards. As stated in section **14. Ventilation** of the **Regulation governing wastewater disposal systems for isolated dwellings (Q-2, r.22)** and application for septic tanks, the primary reactor must be ventilated by an air duct with a diameter of at least 100 mm (4") or be connected to the air vent of the isolated dwelling being serviced. Premier Tech strongly recommends using a pipe with a diameter of 100 mm (4") for the air vent.

Any change in the use of your residence or any modification to your septic system must be authorized by the local authorities and Premier Tech must be informed of the change or modification. If this requirement is not fully met, the warranty for your **phosphorus removal unit (DpEC) and the watertight sand filter** will become null and void.

## 3. ALARM SYSTEM

### 3.1 OPERATION

The phosphorus removal unit (DpEC) is equipped with an exterior control panel which is connected to an alarm box that can generate two types of alarm. The box must be installed where the temperature is controlled over the freezing point and in a place that the alarm can be heard as soon as it is activated. The operation of these two types of alarms is presented below.

#### Alarm from electrocoagulation unit

The red LED lights up and an audible alarm sounds when an alarm from the electrocoagulation unit is generated. At this time, a verification must then be carried out.



#### High water level alarm in the effluent pumping station of the sand filter (when applicable)

The amber-colored LED illuminates and an audible alarm sounds when a high water level alarm is generated in the Sand Filter Pump Station (TLP-FAS). In such a case, a verification must then be carried out.

When a problem is detected by the alarm box and that an audible alarm is heard, that signal can be silenced using the "SILENCE" button located on the alarm box. It is important to contact Premier Tech at 1 800 632-6356 to address the cause of the incident.

The alarm box is also WI-FI enabled allowing email or SMS notifications whenever there is an alarm detected. To configure and activate the WI-FI function, please refer to the quick guide provided with your alarm box or contact Premier Tech's after sales service team at 1 800 632-6356. It will be our pleasure to accompany you throughout the configuration process. The activation of the WI-FI feature will also allow Premier Tech to receive email notifications whenever there is an issue with your UV disinfection unit. We will then contact you to address the cause of the incident.

In the event of a power failure, the alarm system continues to function on an emergency battery integrated to the alarm system. The button on the alarm box may also be used to verify if the alarm is functional. During a test, the red indicator should light up, the audio alarm be heard and, if the WI-FI function is activated and configured, you and Premier Tech should receive a notification either by email or SMS according to the configuration.

### 3.2 AN ACTIVATED ALARM

When an abnormal situation triggers an alarm, you must promptly contact the After-Sales Service department of Premier Tech at 1 800 632-6356 in order to identify the source of the alarm. Please note the following information during the installation of your system and have it on hand when contacting the After-Sales Service. You will find this information on the stickers and identification plates of your treatment system.

Primary reactor	Model:	PRT-660P/B or PRT-960P/B	Model:	DpEC-090P/B
	Serial Number:		Serial Number:	

## 4. MAINTENANCE

*Regulation governing wastewater disposal systems for isolated dwellings (Q 2, r.22)* stipulates in the following articles that,

- **3.3 Maintenance contract:** *The owner of a treatment system referred to in section 11.1, 16.1, 87.7 or 87.13 must have a binding contract with the system manufacturer, the manufacturer's representative or a qualified third person in which it is stipulated that minimum annual maintenance will be performed on the system.*
- *The owner of the system must deposit a copy of the contract with the local municipality in which the isolated dwelling or the other building served by the treatment system is situated.*
- **87.16. Installation, use and maintenance:** *Every tertiary treatment system with phosphorous removal, tertiary treatment system with disinfection and the tertiary treatment system with phosphorous removal and disinfection must be installed, used and maintained in accordance with the manufacturer's manuals.*

The regular maintenance of your phosphorus removal unit (DpEC) followed or not by a watertight sand filter will ensure that your warranty remains valid and that the treatment performances are reached before any effluent is discharged from the system. Premier Tech strongly recommends that a maintenance visit be done every 6 months, and that, for the entire lifetime of your system. The maintenance visit must be performed by a qualified service technician from the Premier Tech network of service partners or a qualified third party as referred to in section 1x.2 of the *Regulation governing waste water disposal systems for isolated dwellings (Q-2, r.22)*. All of the access lids of your treatment system as well as the control panel, must be accessible to the maintenance technician at all times. We recommend that you keep all invoices and documents returned to you as proof of the regular maintenance of your system.

### 4.1 PRIMARY REACTOR

The pumping out of the primary reactor must be performed when the sludge contained in the first compartment of the primary reactor reaches a level of 70 to 75% of its overall height. Should the measured level justify this procedure, the maintenance technician will advise the owner. It becomes the owner's responsibility to take the appropriate actions: failing to do so may cause your treatment system to fail and its performances to deteriorate.

If your residence is equipped with a garbage disposal system or a disposal pump, we strongly recommend that you empty your primary reactor more often. The use of this type of device increases the amount of sludge in the primary reactor.

We recommend that you keep proof of the pumping out of your primary reactor (invoices) along with this Owner's Manual so as to keep a record of complete treatment system maintenance.

**IMPORTANT:** there are different types of pumping out procedures and they can be divided into two categories, namely a complete pumping out and a selective or partial pumping out. It is mandatory to opt for a complete pumping out of the primary reactor. This can be easily verified as the primary reactor should be completely empty when the vacuum truck leaves. To ensure a better protection of your system and to receive service pumping out services that are well adapted to your needs, Premier Tech recommends that you contact a local Premier Tech service partner or a qualified third party as referred to in section 1x.2 of the *Regulation governing waste water disposal systems for isolated dwellings (Q-2, r.22)* to perform the maintenance of your primary reactor.

#### 4.1.1 Flow Regulator

Under normal working conditions, such as the ones described in the present document, the Flow Regulator will operate for many years. It must however be cleaned and inspected at every maintenance visit and primary reactor pump out.

### 4.2 EC UNIT

A local Premier Tech service partner or a qualified third party as referred to in section 1x.2 of the *Regulation respecting waste water disposal systems for isolated dwellings (Q-2, r.22)* will perform the maintenance of your EC unit. This visit has the double purpose of verifying that all the components are operational and if the consumable Aluminium Electrodes need to be replaced. The pumping out of the EC unit is not a regular procedure and must be performed only in the presence of a major system malfunction. It is important to remember that a balance is established between the EC unit and the primary reactor, as long as the sludge pump operates normally.

### 4.3 WATERTIGHT SAND FILTER

The maintenance of the watertight sand filter is limited to ensuring the proper working of the components of the Pumping Stations (PAS-FAS and FAS-TLP).

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## 5. SAMPLING

As stipulated in the section below of the *Regulation respecting wastewater disposal systems for isolated dwellings (Q-2, r.22)*:

- **87.30.1. Effluent analyses:** *The owner of a tertiary treatment system with disinfection, phosphorous removal or disinfection and phosphorous removal must, at least once per 6-month period, have a sample of the system's effluent analyzed to determine the concentration, if any, of fecal coliforms or total phosphorous.*
- *The owner must send the analysis reports within 30 days of their receipt to the municipality in whose territory the treatment system is situated. In addition, the owner must keep the reports for 5 years and make them available to the Minister at the Minister's request.*

The Maintenance Contract Agreement offered by Premier Tech includes the sampling visit performed every 6 months.

## 6. WHAT TO DO IN CASE OF...



### 6.1 AN ACTIVATED ALARM

If an alarm is activated, and that is it unrelated to a power failure, contact Premier Tech's After-Sales Service department so the problem can be identified and corrected.



### 6.2 A PROLONGED POWER FAILURE

If a power failure occurring in winter is prolonged, you should take precautions to protect your septic installation against freezing. If you have any questions regarding the restart of your system, contact Premier Tech's After-Service department.



### 6.3 FLOODING

Certain sites are prone to seasonal flooding or to rises in groundwater levels. This can lead to a malfunction in your septic system or alter the performance of your phosphorus removal unit (DpEC), as it would for any septic installation. If this happens, contact Premier Tech's After-Sales Service department.



### 6.4 BACKFLOW

Backflow rarely occurs. If this should happen, the primary reactor is most likely the cause. Your installer or septic tank pumper can generally take care of the situation.



### 6.5 ODOURS

Any septic system is likely to generate gas and consequently odors. The position of the air vent, as well as other factors unrelated to the phosphorus removal unit (DpEC) followed or not by a watertight sand filter, can prevent proper dispersion of septic gases and generate foul odours. If this happens, contact Premier Tech's After-Sales Service department for available solutions.

If you have any questions or comments,  
please do not hesitate to contact Premier Tech at **1 800 632-6356**.



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# ANNEX 1 | CERTIFICAT OF WARRANTY FOR THE PHOSPHORUS REMOVAL UNIT (DpEC)

## 1. PREAMBLE

Premier Tech Technologies Ltd. (hereinafter called "Premier Tech") is proud to provide its customers with an exclusive wastewater treatment system guaranteed by an innovative warranty. For the application and interpretation of this warranty, "Customer" shall mean the person who has purchased, for a residential installation, a phosphorus removal unit (DpEC) with or without a watertight sand filter (hereinafter called "Initial Purchaser"), as well as any subsequent purchaser (hereinafter called "Subsequent Purchaser(s)"), in accordance with the provisions of Section 8 of this warranty. "Successor(s)" shall mean any other person entitled to exercise the same rights as the Customer under the law.

## 2. NATURE OF THE WARRANTY

The following warranty is conditional to and only applies if the phosphorus removal unit (DpEC) and watertight sand filter has been installed according to the installation, maintenance and operation instructions as described in the Installation Guide and the Owner's Manual.

### 2.1 The phosphorus removal unit (DpEC) and watertight sand filter

Premier Tech guarantees the tanks of the phosphorus removal unit (DpEC) and watertight sand filter (parts and labour) as well as all other components, with the exception of the ones stated in Section 2.2 below, against any manufacturing defects for a period of five (5) years from the date of purchase by the Initial Purchaser (proof of purchase required).

### 2.2. Other components

Premier Tech guarantees the electro-mechanical components (control panel, blower, pumps, floats, magnetic contacts) included with the phosphorus removal unit (DpEC) and watertight sand filter against any manufacturing defects for a period of one (1) year (parts and labor), from the date of purchase by the Initial Purchaser (proof of purchase required).

Premier Tech's conventional warranty is expressly limited to the text of this Warranty Certificate and valid provided that the phosphorus removal unit (DpEC) and watertight sand filter were installed in accordance with applicable regulations and the manufacturer's recommendations.

## 3. NOTICE

For this warranty to be valid, the Customer must notify Premier Tech in writing immediately upon the appearance of any indication of any anomaly or irregularity in the phosphorus removal unit (DpEC) and watertight sand filter.

Such notice shall be mailed to Premier Tech Head Office at 1, avenue Premier, Rivière-du-Loup, Québec, G5R 6C1, Canada or sent by fax at 1-418-862-6642.

Upon receipt of this notice, Premier Tech shall analyse the situation and, if necessary, take appropriate corrective measures in accordance with the terms of this warranty.

## 4. GENERAL EXCLUSIONS

The following damages or problems are excluded from the warranty:

- Any damage or problem caused by a fortuitous event or "force majeure", such as, without limiting the generality of the foregoing, an earthquake, a flood, frost, hurricane, landslide, explosion or dynamiting, rise of the groundwater table level;
- Any damage or problem caused by the fault or act of a third party including, without limiting the generality of the foregoing, the execution of landscaping work;
- Any damage or problem arising from a defective installation carried out by a person trained by Premier Tech, or any installation, modification, correction or addition carried out by a person not trained by Premier Tech;
- Any damage or problem arising from any installation, modification, correction or addition to the treatment system carried out after the installation of the phosphorus removal unit (DpEC) and watertight sand filter without the prior written consent of Premier Tech;
- Any damage or problem caused by the use of the phosphorus removal unit (DpEC) and watertight sand filter that does not comply with the applicable regulations and/or with Premier Tech's specifications, as described in the Owner's Manual;
- Any damage or problem, if it is shown that the usage of the phosphorus removal unit (DpEC) and watertight sand filter was not in accordance with the instructions and guidelines described in the Owner's Manual;
- Any damage or problem, if the maintenance of the phosphorus removal unit (DpEC) and watertight sand filter was carried out by a person not authorized by Premier Tech or by a qualified third party as referred to in section 1x.2 of the *Regulation respecting waste water disposal systems for isolated dwellings* (Q-2, r.22);

- Any damage or problem caused by an omission or act of the Customer or the Customer's Successors including, without limiting the generality of the foregoing, refusal to allow access to the system for maintenance;
- Any damage or problem, if it is found that the Customer or the Customer's Successors have modified or changed the use of the property serviced by the phosphorus removal unit (DpEC) and watertight sand filter resulting in the alteration of the nature or quality of wastewater being treated and/or that constitutes a violation of the applicable regulations;
- Any damage or problem caused by and/or resulting from the work carried out to access the phosphorus removal unit (DpEC) and watertight sand filter including, without limiting the generality of the foregoing, excavation, snow removal or demolition;
- Any damage or problem resulting from the condition of the site or of the soil and not reported or not properly reported to Premier Tech by the Customer or the person undertaking the site investigation.

## 5. PARTICULAR EXCLUSIONS

It is further expressly understood that the Customer may not carry out or cause to be carried out any repair or verification of the phosphorus removal unit (DpEC) sold to him before notifying Premier Tech in accordance with the provisions of section 3 of this Warranty and before Premier Tech has visited the site, within a reasonable time following receipt of said notice, to assess the situation.

It is also expressly understood that the Customer may not modify or carry out any corrective measures whatsoever to the phosphorus removal unit (DpEC) sold to him before notifying Premier Tech, in accordance with the provisions of section 3 of this Warranty, and before Premier Tech has visited the site, within a reasonable time following receipt of said notice, to assess the situation.

If the Customer carries out or causes to be carried out repairs, or attempts to repair or to apply corrective measures of any kind whatsoever to the phosphorus removal unit (DpEC) sold to him without prior authorization by Premier Tech, this Warranty shall be considered null and void and Premier Tech shall be considered completely discharged from any and all of its obligations under this Warranty.

This section does not restrict the Customer from having the manual maintenance of the phosphorus removal unit (DpEC) performed by a qualified third party as referred to in section 1x.2 of the *Regulation respecting waste water disposal systems for isolated dwellings* (Q-2, r.22).

## 6. INDEMNITIES AND DAMAGES

In accordance with Sections 3 and 4, Premier Tech's liability and obligations regarding any corrective measure carried out or any attempt to correct an indicated problem shall be limited to the replacement of one or several components of the phosphorus removal unit (DpEC) and watertight sand filter and to supplying the required labour, if applicable.

## 7. LIMITATION OF LIABILITY

Premier Tech's compensation or indemnification obligation shall be limited to the provisions of Section 6 of this Certificate of Warranty and Premier Tech shall not be held liable for any other damage or loss that may have been suffered or incurred by the Customer or any third party in connexion with the phosphorus removal unit (DpEC) and watertight sand filter.

## 8. TRANSFER OF OWNERSHIP

In the event of transfer of ownership, sale, assignment or disposal in anyway whatsoever of the Customer's property to a third party, this warranty shall continue to apply if and only if the Subsequent Purchaser or the Successor confirms, by forwarding the attached "Notice of New Property Owner" to Premier Tech within a reasonable time, that he/she is the new owner of the property, he/she understands and is aware of the content of this Certificate of Warranty and accepts its terms and conditions.

The person who proceeds with the transfer, sale, assignment or disposal in anyway whatsoever of the property undertakes to hand over to the Subsequent Purchaser or the Successor the Certificate of Warranty provided upon completion of the work, as well as the Owner's Manual and, if applicable, the Maintenance and Environmental Monitoring Program for the phosphorus removal unit (DpEC) and watertight sand filter.

Failure to abide by the terms and conditions of Section 8 of this Certificate of Warranty may, at Premier Tech's discretion, render it invalid or to be rejected.

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## **9. INSPECTION**

The Customer and/or the Customer's Successors shall allow Premier Tech or its duly authorized representatives to carry out all necessary monitoring and inspections, as required, for the implementation of this warranty.

If the Customer and/or the Customer's Successors notify Premier Tech of an alleged defect or malfunction of the phosphorus removal unit (DpEC) and watertight sand filter and that, after an inspection, it is found that no such defect or malfunction exists, or that such defect or malfunction is excluded from or does not apply to the warranty, a minimum charge of \$150.00 plus direct expenses shall be invoiced to the Customer and/or the Customer's Successors to cover the cost of the inspection.

## **10. INTERPRETATION**

The terms and conditions of this warranty shall be interpreted according to and governed by the provisions of this warranty and the legislation in effect in the Province of Quebec.

## **11. PRIORITY OF THE CERTIFICATE OF WARRANTY**

This warranty supersedes any contract or understanding, written or verbal, entered into between the Customer and Premier Tech. In the event of a contradiction between this warranty and any other documents and/or contracts entered into between the Customer and Premier Tech, this Warranty shall prevail.

## **12. PURCHASERS AND SUCCESSORS**

Subject to the provisions of this Warranty and especially those of Section 8, this warranty shall continue to be valid for Subsequent Purchasers and Successors and shall continue to have full effect until the end of the agreed warranty period provided for in Section 2 of this Warranty Certificate.



## ANNEX 2 | NOTICE OF CHANGE OF PROPERTY OWNERSHIP

THIS FORM MUST BE RETOURNED TO PREMIER TECH

1, avenue Premier, Rivière-du-Loup (Quebec) G5R 6C1  
or [maintenance.ptwe.na@premiertech.com](mailto:maintenance.ptwe.na@premiertech.com)

Have you recently sold a property serviced by a Premier Tech wastewater treatment system? Please complete the information below to the best of your knowledge to ensure a quick and accurate update of the customer file.

<b>Name</b>				
<b>You are the</b>		<input type="checkbox"/> Previous owner <input type="checkbox"/> New owner	<b>Premier Tech Customer Number</b>	
<b>Site address serviced by a Premier Tech system</b>				
Civic number	Street	City	Province/State	Postal/Zip Code
<b>Name of the new owner</b>				
<b>Postal address (if different than the site where the system is installed)</b>				
Civic number	Street	City	Province/State	Postal/Zip Code
<b>Preferred language of correspondence</b>		<input type="checkbox"/> French <input type="checkbox"/> English	<b>Preferred method of correspondence</b> <input type="checkbox"/> Email <input type="checkbox"/> Mail	
<b>Phone</b>	(celluar)	<b>Phone</b>	(other)	<b>Email</b>
<input type="checkbox"/> I hereby declare that the residence serviced by a Premier Tech treatment system located at the above address changed ownership on this date:  <b>Date</b>				
<b>If you are the PREVIOUS owner:</b>				
<input type="checkbox"/> I have provided the system's Owner's Manual and the included Warranty Certificate* to the new owners. I have informed them that an annual maintenance is required on the system as per local regulation and to maintain the validity of the product's warranties.				
<b>Signature</b>			<b>Date</b>	
<b>If you are the NEW owner:</b>				
<input type="checkbox"/> I hereby declare that I have received and read the Owner's Manual and Warranty Certificate* and agree to abide by their terms and conditions.				
<input type="checkbox"/> I understand that an annual maintenance is required for all treatment systems as per local regulation and that I must renew my annual maintenance contract with the manufacturer every year (at the latest on December 31st of every year) to benefit from the protections of the product's warranty and ensure compliance of my system.				
<b>Signature</b>			<b>Date</b>	

