

# PTA Holding Tanks

## Installation Guide and Owner's Manual

*This Guide contains the information needed to plan the installation of the Premier Tech Aqua (PTA) holding tanks. If you would like more details, please contact our Customer Service Department at 1 800 632-6356.*

### Technical Information

**Materials used for the tank:**  
Medium density polyethylene (MDPE)

**Description**  
Premier Tech Aqua's polyethylene holding tanks are certified according to the following standards:

BNQ (Bureau de Normalisation du Québec- Québec Standards Bureau) BNQ 3682-901/2008

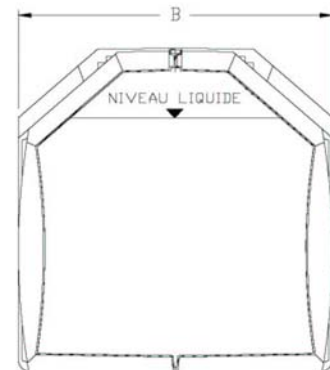
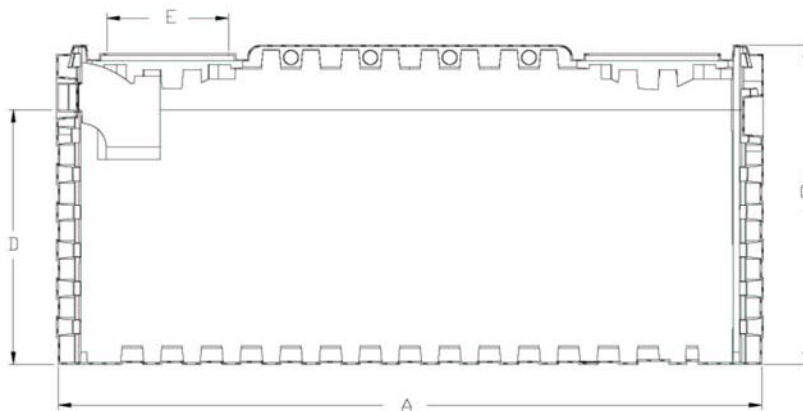


### Characteristics

Models	PHT-390	PHT-660
Nominal total capacity	3.9 m <sup>3</sup> / 3900L 860 Imp. Gal.. 1030 US Gal.	6.65 m <sup>3</sup> / 6650L 1460 Imp. Gal.. 1760 US Gal.
Liquid capacity	3.45 m <sup>3</sup> / 3450L 755 Imp. Gal. 910 US Gal.	5.9 m <sup>3</sup> /5900L 1300 Imp. Gal. 1550 US Gal.
Total length (A)	3320 mm 130 1/2"	3965 mm 156"
Total width (B)	1250 mm 49 1/4"	1330 mm 52 3/8"
Total height (C)	1330 mm 52 3/8"	1720 mm 67 3/4"
Inlet height (D) *	1055 mm 41 1/2"	1400 mm 55"
Opening diameter (E)	470 mm 18 1/2"	470 mm 18 1/2"

\*Pipe invert

Note: The characteristics can be modified at any time



# 1. Sizing, Localization and Special Instructions

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For residential systems, determine the size of the holding tank required according to the number of bedrooms in the home. To find which tank is required, refer to the regulations or standards that apply in your region, state, province or country. The same applies to the installation.

To reduce the number of times the tank has to be emptied, we recommend using a larger holding tank than required. This also allows for the addition of one more bedroom to the home without having to replace the tank.

**It is important that all parties involved (installer, landscaper, owner, snow removal service, etc.) are aware of the installation instructions and other points that must be observed:**

- Never install a holding tank where the level of the water table can reach its base at any time of the year (drains may have to be installed).
- Never install a holding tank in clayey soil.
- Make sure any surface runoff (surface water) does not reach the installed holding tank (is directed away from the holding tank).
- The holding tank must be watertight. No water, other than the wastewater from the home, should infiltrate the tank.
- Never attach a drainage pipe (lot or foundation), gutter spout, sewage lift or drainage pump, or air conditioner drain to your holding tank.
- Never cover or bury the access lid of the holding tank. Access to the tank must be available at all times for emptying and maintenance.
- Respect the minimal distances set by the regulations in force.
- Do not put more than 90 cm (36") of backfill on top of the holding tank.
- Never go inside the holding tank once the installation is finalized.
- Never operate a vehicle or put objects weighing more than 200 kg (450 lbs) closer than 3 m (10') from the lid.
- Avoid let anything that could create an overload (for example, compacted snow) accumulate on top of the holding tank. The overload may damage it.
- Never overload the soil closer than 3 m (10') from the holding tank (for example, a vehicle, blown snow, the bottom of an embankment/slope).
- The home must have a working vent that meets applicable standards.
- Make sure the vegetation around the tank grows back quickly to avoid erosion of the soil.

## Localization Standards

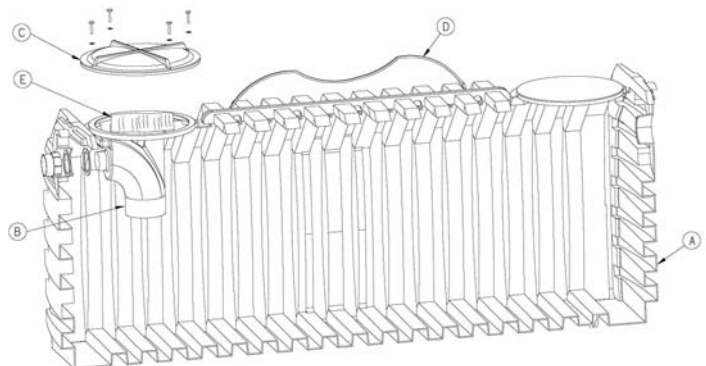
To find the minimum distances that must be respected, please refer to the applicable regulations or standards in your region, state, province or country.

# 2. Components of the Holding tank

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**At delivery, check that all the following components are included.**

- A- 1 polyethylene tank;
- B- 1 inlet device;
- C- 1 lid attached to the access hole with a lag screw;
- D- 1 nylon cord attached on the top of the holding tank for handling purposes;
- E- Holding Tank Installation Guide

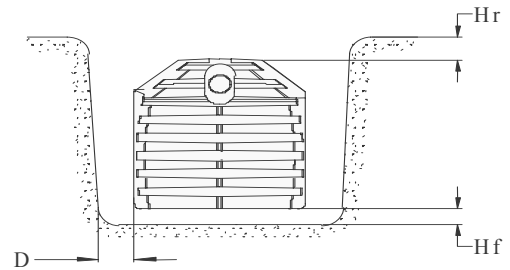


### 3. Installation Sequence

#### Step 1 – Excavating to put the holding tank in place

##### Specific Requirements

- Amount of soil backfill allowed on top of the holding tank:  
 $H_r \geq 30 \text{ cm (12")}$  and  $H_r \leq 90 \text{ cm (36")}$
- Room between the excavation and the holding tank:  
 $D \geq 30 \text{ cm (12")}$  all around
- Minimum thickness of the base (seating) ( $H_f$ ) :  
 Minimum 15 cm (6") in mellow soil or  
 Minimum 30 cm (12") in rock.



**Note regarding the foundation:** Use 0-20 mm Ø (0-¾) gravel or leveled and compacted sand for the base.

#### Step 2a – Installing the holding tank with an anchoring system (optional)

An anchoring system can be installed to prevent problems should the water table temporarily and exceptionally rise above the base of the holding tank. This option is strongly recommended, but is limited as a preventive measure. The level of the water table should never rise above the first third the height of the holding tank.

- Compact and level the material used for the base.
- Put the concrete counterweight in place. See the table below for the required weight.
- Add a 20 cm (8") layer of backfill material.
- Compact and level the backfill material.
- Maneuver the tank using the cord on the top.
- Put the holding tank in place.
- Install the retainer straps as shown.

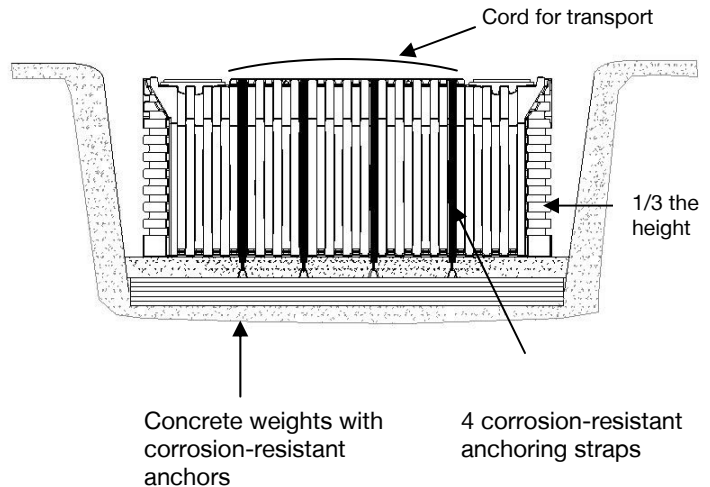
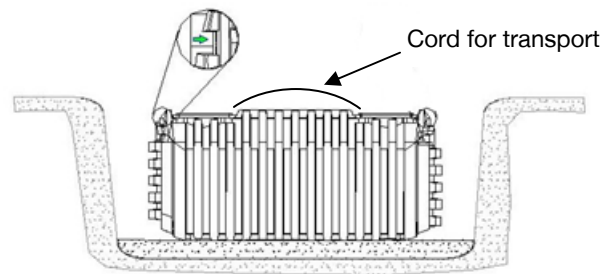


Table showing the load of the holding tanks' anchoring system		
Tank model	Resistance /Strap	Total weight of concrete
PHT-390	1000 Kg	3400 Kg
PHT-660	1000 Kg	5700 Kg

Note: Use only non-corrosive materials.

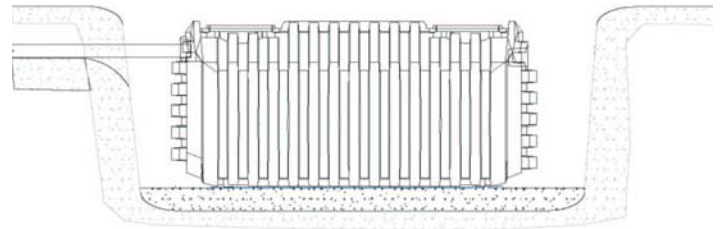
## Step 2b – Preparing the base and installing the holding tank

- Compact and level the material used for the base.
- Maneuver the tank using the cord on the top.
- Put the holding tank in place.



## Step 3 – Hooking up (connecting) the holding tank

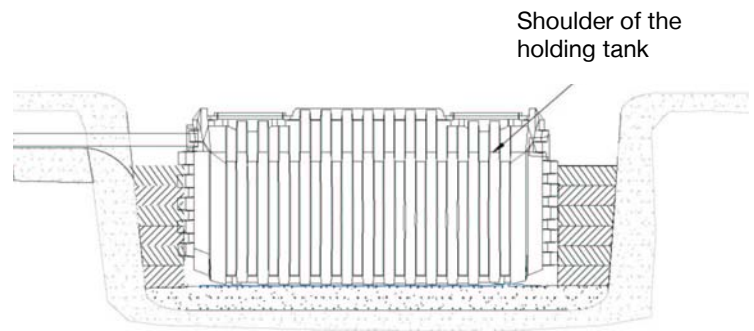
- Hook up the plumbing connections at the inlet of the holding tank.
- All holding tanks must be ventilated using a pipe that is at least 100 mm (4") in diameter or that is connected to the isolated dwelling's ventilation pipe.



## Step 4 – Backfilling

- Backfill up to the shoulder of the holding tank.
- Note that the backfill material must be laid and not pushed. As such, a power shovel should not be used.
- The backfill material must not contain any organic matter or impervious soil, stones, debris, particles larger than 20 mm (¾") or any object that could damage the holding tank.

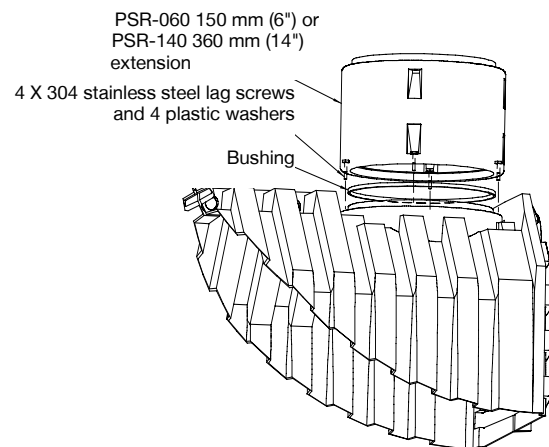
**Note:** Make sure the backfill material for the holding tank is uniform on all sides.



## Step 5 – Installing an extension

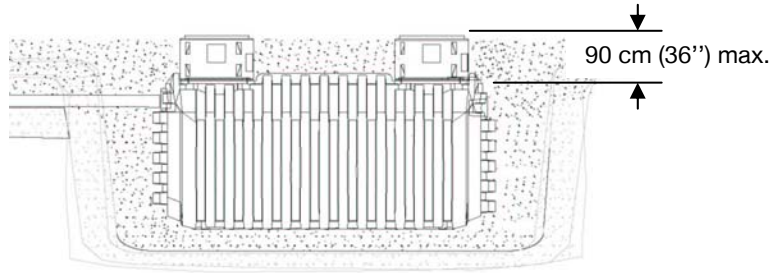
When extensions are required for the installation of the holding tank, proceed as follows:

- Clean the edge of the holding tank's access hole (where 4 holes have been made to put in the lag screws).
- Place the rubber gasket on the edge.
- Put the extension in place on the access hole by aligning the holes in the base of the extension with the access holes of the tank.
- Insert the plastic washers in the lags, then insert the 4 lag screws to ensure the extension is firmly in place.



## Step 6 – Final backfill

- Before the final backfill, it is strongly recommended that the holding tank and the access holes be insulated to prevent freezing. Insulating panels should be used for this purpose.
- Fill the excavation to the desired level.
- Do not backfill more than 90 cm (36") above the ceiling of the holding tank.
- When required, **PTA PSR-060** or **PSR-140** extensions must be used.
- Screw the lid onto the holding tank or onto the extension using the supplied lag screws.



## Step 7 – Installing a high-level float (optional)

Installing a high-level float inside the holding tank is highly recommended. This will send a warning that the tank is full and must be emptied as soon as possible. The high-level float must be connected to an audible and visual alarm, preferably inside the home.

## 4. USAGE AND MAINTENANCE INSTRUCTIONS

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Following are recommendations to ensure the efficiency and effectiveness of your holding tank and maintain it in proper working order.

### Usage instructions

It is recommended that you not flush any of the following down the toilet:

- Water softener backwash
- Oil or grease (motor oil, cooking oil, etc.)
- Wax or resins
- Paints, solvents, petroleum products
- Any kind of pesticide
- Any septic tank additive
- Any toxic substance



### Maintenance of the holding tank

A holding tank must be inspected every year and emptied as needed. However, if a municipality, province, state or country has a regulation that provides for the emptying of holding tanks, consult the competent authorities to know how often inspections must be made and how often the tank must be emptied.

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

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### Backflow

It is rare that water backflows into a home. If this happens, the holding tank may be full. In such a case, empty the tank. If the backflow is caused by the pipes connected to the tank, have an expert in the field check that they are not blocked.

# Certificate of Warranty of the Premier Tech Polyethylene Holding Tanks

## 1. PREAMBLE

Premier Tech Technologies Ltd. (hereinafter called "Premier Tech") is proud to provide its customers with this warranty, which applies to the PHT-390 and PHT-660 holding tanks.

For the purposes of this warranty, "Customer" shall mean the person who has acquired a holding tank (hereinafter called "Initial Purchaser"), as well as any subsequent purchaser (hereinafter called "Subsequent Purchaser(s)"), according to the provisions of Section 8 of this warranty. "Successor(s)" shall mean any other person entitled to exercise Customer rights under the law.

## 2. NATURE OF THE WARRANTY

Premier Tech warrants to the Customer that the **holding tank**, its parts and its components against any manufacturing defect for a period of five (5) years starting on the date of purchase of the holding tank (proof of purchase date required), provided the **holding tank** was installed according to the installation, usage and maintenance instructions indicated in the Installation Guide/Owner's Manual.

This conventional warranty provided by Premier Tech to its customers in addition to any other legal warranty, but is expressly limited to the text of this certificate.

## 3. NOTICE

For this warranty to be valid, the Customer must notify Premier Tech in writing immediately upon the appearance of any indication of an anomaly or irregularity in the **holding tank**.

Such notice must be given by mail to Premier Tech's head office at 1, avenue Premier, Rivière-du-Loup, Québec, G5R 6C1, CANADA or by facsimile at (418) 862-6642.

Upon receipt of this notice, Premier Tech will look into 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:

- (a) All transportation, shipping and manpower costs incurred to execute this warranty. These costs shall be assumed by the Customer according to the rates in effect at the time this warranty is executed.
- (b) Any damage or problem caused by a fortuitous event or "force majeure", such as, without limiting the generality of the foregoing, earthquake, flood, hurricane, landslide, explosion or dynamiting;
- (c) Any damage or problem caused by the fault or act of a third party;
- (d) Any damage or problem arising from a defective installation of the **holding tank** and/or any product upstream or downstream of said tank;
- (e) Any damage or problem arising from any installation, modification, correction or addition to the **holding tank** carried out after installation of same without Premier Tech's prior written approval;
- (f) Any damage or problem provided it is demonstrated that the installation, maintenance or usage of the **holding tank** was not done according to the instructions described in the Installation Guide/Owner's Manual;
- (g) Any damage or problem caused by the fault or action of the Customer or the Customer's Successors.
- (h) Any damage or problem if it is found that the Customer or the Customer's Successors have modified or changed the use or the purpose of the property serviced by the **holding tank** resulting in the alteration of the nature or quality of the water being treated and/or that constitutes a violation of the applicable regulations;
- (i) Any damage or problem caused by work rendered necessary to access the **holding tank**, such as, but without limiting to the generality of the foregoing, excavation, snow removal or demolition.

## 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 **holding tank**, its parts and components, or attempt to carry out any work or to apply any corrective measures whatsoever to said work, 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, in order 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 **holding tank**, its parts and/or components, without prior authorization by Premier Tech, Premier Tech shall consider this warranty null and void and shall be considered completely discharged from any and all of its obligations under this warranty.

## 6. INDEMNITIES AND DAMAGES

Premier Tech's liability and obligations under this warranty, with regards to corrective measures or means of correcting an identified problem, shall be limited to supplying a new **holding tank** or one several of its parts/components, at Premier Tech's discretion and excluding the items mentioned in Section 4 of this warranty;

## 7. LIMITATION OF LIABILITY

Premier Tech's compensation or indemnification liability 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 connection with the **holding tank**, its parts and/or components.

## 8. TRANSFER OF OWNERSHIP

In the event of transfer of ownership, sale, assignment or any other type of disposition of the Customer's property to a third party, this warranty shall continue to apply. The party proceeding with the transfer, sale, assignment or any other type of disposition of the property undertakes to hand over to the Subsequent Purchaser or the Successor the warranty certificate remitted upon completion of the work, as well as the Installation Guide/Owner's Manual.

## 9. INSPECTION

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

## 10. INTERPRETATION

The terms of this warranty shall be interpreted and governed by the laws in force in the Province of Quebec and the provisions of this warranty.

## 11. PRECEDENCE OF THE CERTIFICATE OF WARRANTY

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

## 12. PURCHASERS AND SUCCESSORS

Subject to the provisions of this warranty, this warranty shall continue to apply to Subsequent Purchasers and the Customer's Successors and shall continue to have full effect until the end of the agreed warranty period provided for in Section 2.



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