

PTA Septic Tanks

Installation Guide and Owner's Manual

This guide contains the information required for the installation of the **septic tanks** from **Premier Tech Aqua (PTA)**. If you would like more details, you can contact our customer service at **1 800 632-6356**.

Technical Data

Tank material

Medium-density polyethylene (MDPE)

Tank description

The Premier Tech Aqua polyethylene septic tank received the following certifications:



CSA (Canadian Standards Association) CAN/CSA-B66-05: PST-280, PST-340, PST-390, PST-420, PST-500 and PST-660 models

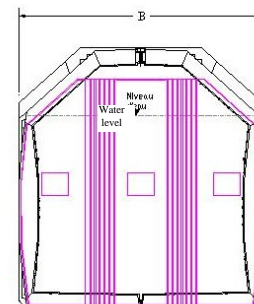
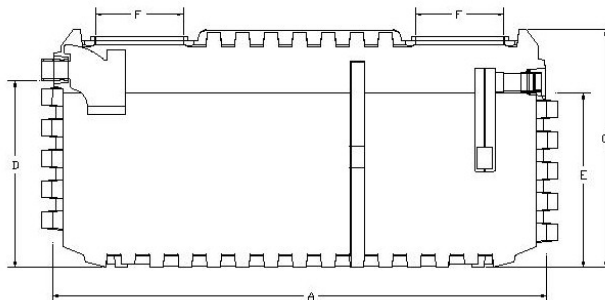
BNQ (Bureau de Normalisation du Québec) NQ 3680-905: PST-280, PST-340, PST-390, PST-440, PST-500 and PST-660 models

Characteristics

Modèles	PST-280	PST-340	PST-390	PST-420	PST-440	PST-500	PST-660
Total nominal capacity	740 US gal 620 UK gal 2800 L	900 US gal 750 UK gal 3400 L	1030 US gal 860 UK gal 3900 L	1140 US gal 950 UK gal 4300 L	1160 gal. US 965 gal. imp. 4400 L	1320 US gal 1100 UK gal 5000 L	1760 US gal 1460 UK gal 6650 L
Liquid capacity	600 US gal 500 UK gal 2260 L	800 US gal 660 UK gal 3000 L	880 US gal 730 UK gal 3300 L	950 US gal 790 UK gal. 3600 L	975 US gal. 810 UK gal. 3700 L	1140 US gal 950 UK gal 4300 L	1530 US gal 1280 UK gal 5800 L
Total length (A)	98" 2495 mm	119 ½" 3035 mm	130 ½" 3320 mm	148 ¾" 3777 mm	148 ¾" 3777 mm	126 ¾" 3,220 mm	156" 3,965 mm
Total width (B)	49 ¼" 1250 mm	49 ¼" 1250 mm	49 ¼" 1250 mm	49 ¼" 1250 mm	49 ¼" 1250 mm	49 ¼" 1250 mm	52 ¾" 1330 mm
Total height (C)	52 ¾" 1330 mm	52 ¾" 1330 mm	52 ¾" 1330 mm	52 ¾" 1330 mm	52 ¾" 1330 mm	68 ⅛" 1730 mm	67 ¾" 1720 mm
Inlet height (D) *	41 ½" 1055 mm	41 ½" 1055 mm	41 ½" 1055 mm	41 ½" 1055 mm	41 ½" 1055 mm	56 ¼" 1430 mm	55" 1400 mm
Outlet height (E) *	38 ½" 980 mm	38 ½" 980 mm	38 ½" 980 mm	38 ½" 980 mm	38 ½" 980 mm	52 ¾" 1330 mm	52 " 1320 mm
Diameter of openings (F)	18½" 470 mm	18½" 470 mm	18½" 470 mm	18½ " 470 mm	18½ " 470 mm	18½ " 470 mm	18½ " 470 mm

*Invert

Note: The characteristics can be modified at any time.



1. Sizing, location and special instructions

For residential systems, determine the septic tank size required according to the number of bedrooms in the home and to the local regulations.

To improve the performance of any septic installation and extend the life of the treatment system, we recommend using a larger septic tank than that prescribed. This also allows for the addition of an extra bedroom without the need for tank replacement.

Make sure all interested parties (installer, landscaper, owner, snow removal company, etc.) are notified of the installation directives and others points to follow.

- Never install a septic tank in a place where the groundwater table can reach its base (otherwise, drain pipes could be required).
- Never install a septic tank in clay soil.
- The profile of the lot must be such that surface run off flows away from the septic system.
- The septic tank must be watertight and 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 cover or bury the two access lids of the septic tank. It needs to be accessible for maintenance and emptying.
- Respect the minimum distances prescribed by regulations.
- The backfill over the septic tank must not exceed 90 cm (36").
- Never enter the septic tank after installation without prior authorization.
- Never drive vehicles or place objects weighing over 200 kg (450 lb) within 3 m (10') of the lid.
- Do not let anything accumulates on top of the septic system (ex: blown snow). The overload could cause damage.
- Never overload the soil (e.g. vehicles, blown snow, embankments) within 3 m (10') of the lid.
- Homes must be equipped with an air vent that is in proper working order and complies with the applicable standards.
- Ensure rapid growth of vegetation to prevent soil erosion.
- Install the septic tank where there is no motorized traffic.

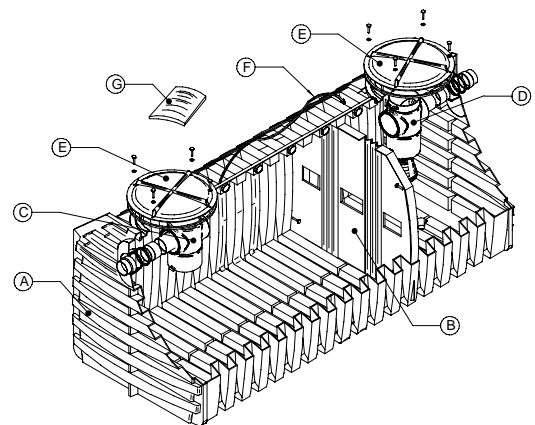
Location Standards

Refer to your local regulations for minimum distances.

2. Components of the septic tank

Make sure that all the following parts are included in your septic tank shipment.

- A. 1 polyethylene tank;
- B. 1 baffle;
- C. 1 T-type inlet device;
- D. 1 Effluent Filter PL-122 (basic model) or EFT-080 (optional);
- E. 1 lid for each access fastened with lag screws;
- F. 1 yellow rope fixed to the top of the septic tank for easy handling;
- G. Installation guides for the septic tank.



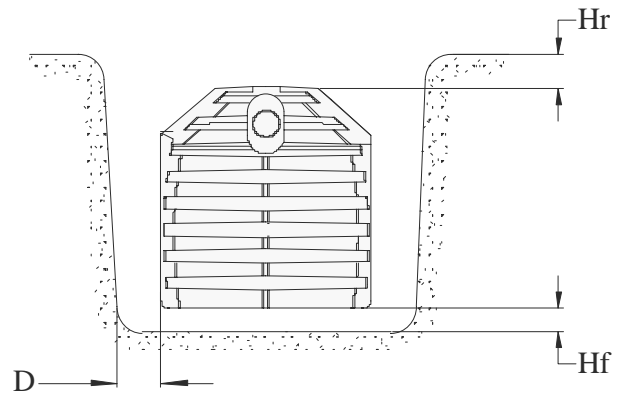
3. Installation steps

Step 1 – Excavation

Special requirements

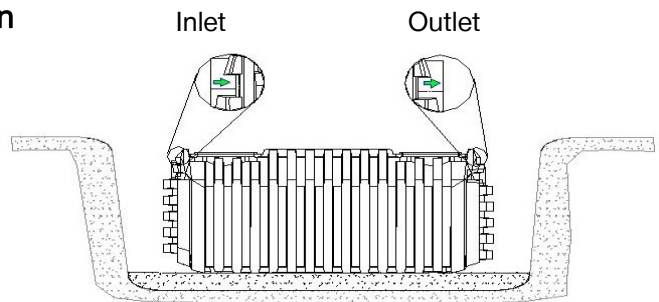
- Maximum depth of backfill covering the septic tank:
 $H_r \leq 90 \text{ cm (36")}$
- Excavation clearance to the tank:
 $D \geq 30 \text{ cm (12")}$ on all sides
- Minimum depth of bedding (H_f):
15 cm (6") in loose soil;
30 cm (12") in bedrock.

Bedding: use gravel 0-20 mm \varnothing (0- $\frac{3}{4}$ ") or sand well compacted and levelled.



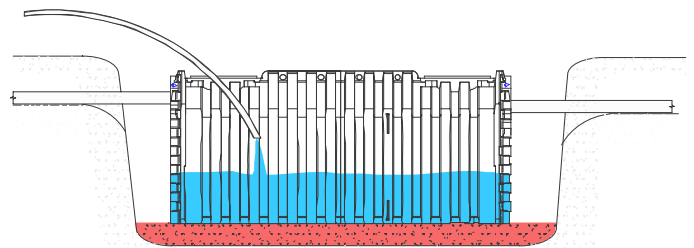
Step 2 – Bedding preparation and tank installation

- Thoroughly compact and grade the bedding.
- Install the septic tank.
- Check the direction of the flow: the inlet should be higher than the outlet. Arrows near the inlet and outlet indicate the direction of flow.



Step 3 – Connection of the septic tank

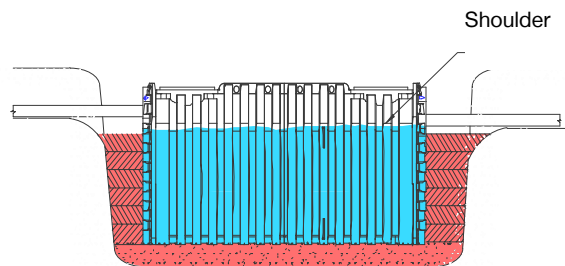
- Fill the septic tank with water.
- While filling the tank, connect the plumbing to the inlet and outlet.
- All septic tanks must be ventilated by an air duct at least 100 mm (4") in diameter or be connected to the air duct of the residence.



Step 4 – Backfilling

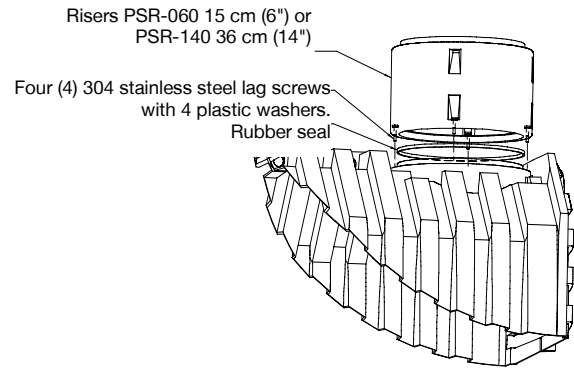
- Backfill until you reach the tank shoulder (water level inside the septic tank).
- It is important that the backfill material be deposited, not dumped. Using a bulldozer for this step is not recommended.
- Backfill material should be free of organic matter and impermeable soil, rock, debris or particles larger than 20 mm ($\frac{3}{4}$ ") or any object that could damage the septic tank.

Note: It is essential to backfill evenly each side of the septic tank.



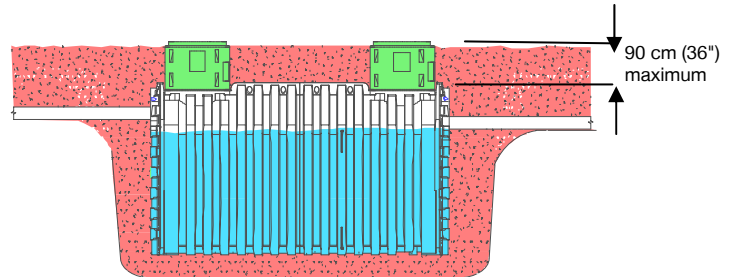
Step 5 – Riser installation

- Where required, the riser is installed as follows:
- Clean the rim of the septic tank access (where the 4 holes are for the lag screws).
- Lay the rubber seal on the access rim.
- Place the riser on, aligning the holes in the base of the riser with the holes in the access rim.
- Tighten the riser in place using the 4 lag screws and the washers provided for this purpose.



Step 6 – Final backfilling of the septic tank

- When the septic tank is full of water, backfill up to the desired height.
- The height of the backfill over the septic tank **must not** exceed 90 cm (36").
- If necessary, use the risers **PSR-060** or **PSR-140** from **PTA**.
- Secure the lid on the septic tank or the riser with the lag screws supplied for.



4. Guidelines for use and maintenance

The following recommendations are intended to ensure optimum treatment efficiency and operation of your septic installation.

Guidelines for use:

It is not recommended to discharge any of the following substances into the system:

- Water softener backwash;
- Oil and grease (engine oil, cooking oil, etc.);
- Wax and resin;
- Paint, solvent and Petroleum products;
- Pesticide of any kind;
- Any kind of septic tank additive;
- Toxic substances;
- Anything not easily biodegradable (e.g. coffee beans, cigarette butts, sanitary napkins, tampons, condoms, cotton swab, etc.).



And avoid

- Using an automatic toilet bowl cleaner.

Maintenance of the Septic tank

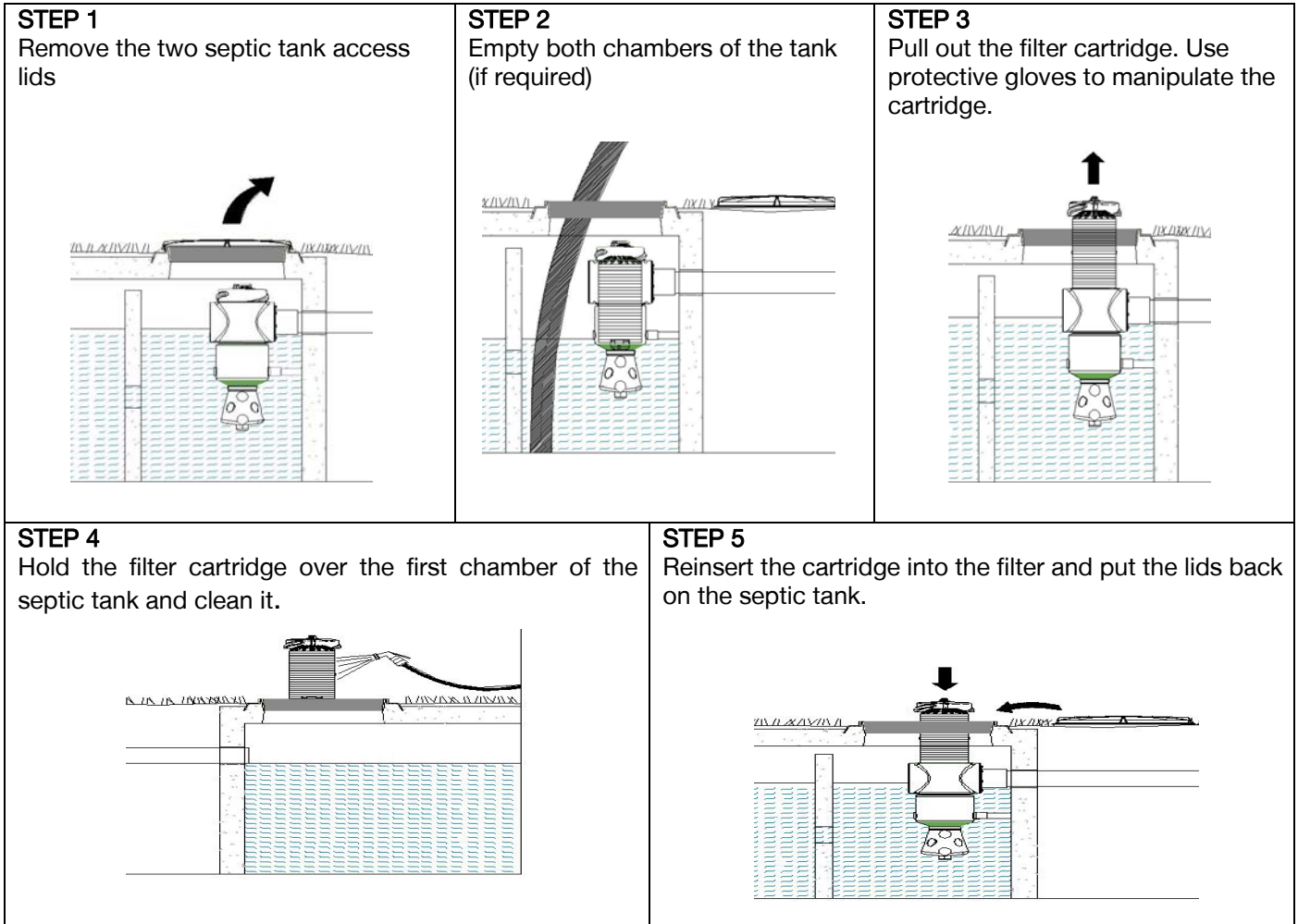
For principal residences, the septic tank should generally be inspected once a year and emptied at least once every two years. However, when a by-law governing the emptying of septic tanks has been adopted by a municipality or county, a septic tank may be found necessary to empty by measuring the scum or sludge layer. Consult your local regulations for prescribed inspection and emptying frequency.

Note: If your home is equipped with a garbage disposal or a sewage pump, we strongly recommend emptying your septic tank more frequently. The use of this kind of equipment increases the amount of sludge in the septic tank.

Maintenance of the Effluent filter

Over time, the **Effluent filter EFT-080 or PL-122** will accumulate solids released from the septic tank. This is normal, which is why the filter must be cleaned periodically. We recommend an inspection of the filter once a year. Cleaning of the effluent filter should be done each time the septic tank is emptied. However, the frequency of maintenance will depend on the wastewater flow generated and the type of establishment. It is also possible that a clean up would be needed before the septic tank emptying.

Main steps to follow to clean up the PTA Effluent filter EFT-080 one of all PL filter's series by Polylok



5. Troubleshooting

Backflow

Backflow rarely occurs in residential septic systems. If it does, the effluent filter may be saturated, in which case all you have to do is cleaning it and everything will return to normal. The Effluent filter removes solids from the septic tank effluent in order to protect the soil absorption system from what is often irreversible clogging. After cleaning the filter, have the septic tank emptied. If the backflow is caused by the septic tank or associated piping, have them checked to make sure they are not blocked. If, after verification, water does not flow properly, have your filter element checked by a wastewater treatment expert.

Certificate of Warranty for the Premier Tech High Performance Septic tanks

1. PREAMBLE

Premier Tech Technologies Ltd. (hereinafter called "Premier Tech") is proud to provide its customers with the present warranty on the **high performance Septic Tanks PST-280, PST-340, PST-390, PST-420, PST-440, PST-500 or PST-660** (hereinafter called "**Septic Tank**").

For the purposes of this warranty, "Customer" shall mean the person who has acquired a **Septic Tank** (hereinafter called "Initial Purchaser") as well as any subsequent purchaser (hereinafter called "Subsequent Purchaser(s)"), according to the dispositions of paragraph 8 of this present warranty. "Successor(s)" shall mean any other person entitled to exercise Customer's rights under the law.

2. NATURE OF THE WARRANTY

Premier Tech warrants to the Customer the **Septic Tank**, its parts and components, against any manufacturing defects for a period of ten (10) years starting on the date of purchase (proof of purchase required) if the **Septic Tank** has been installed according to the installation, maintenance and use instructions as described in the Installation Guide/Owners Manual.

This conventional warranty is given by Premier Tech to its customers in addition to the legal warranties and 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 design or the operations of the **Septic 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 examine the situation and, if necessary, take appropriate corrective measures in accordance with the terms of the present warranty.

4. GENERAL EXCLUSIONS

The following charges, damages or problems are excluded from the warranty:

- (a) Any transportation, shipping and labour charges incurred to execute the present warranty. These charges will have to be assumed by the Customer at the rate in force at the time of the execution of the present warranty;
- (b) Any damage or problem caused by a fortuitous event or "force majeure", such as, without limiting the generality of the foregoing, earthquake, flood, freeze, 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 **Septic Tank** and/or of the products located upstream or downstream from the septic tank;

(e) Any damage or problem arising from any installation, modification, correction or addition to the treatment system carried out after installation of the **Septic Tank** without Premier Tech's prior written approval;

(f) Any damage or problem if it is demonstrated that the installation, maintenance and use of the **Septic Tank** have not been done in accordance with the instructions and guidelines described in the Installation Guide/Owners Manual;

(g) Any damage or problem caused by the fault or action of the Customer or Customer's Successors;

(h) Any damage or problem, if it is found that the Customer or its Successors have modified or changed the use of the property served by the **Septic Tank** resulting in the alteration of the nature or quality of wastewater being treated and/or that constitutes a violation of the applicable regulations;

i) Any damage or problem caused and/or resulting of the works performed in order to access to the **Septic Tank**, including, without limiting 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 **Septic Tanks** sold, 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 acknowledge 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 **Septic Tanks** sold, 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.

6. INDEMNITIES AND DAMAGES

Premier Tech's liability and obligations under this warranty shall be in any event limited to the supply of a new **Septic tank** or of one or several parts/components of the **Septic Tank**, at Premier Tech's discretion and with the exclusion of the items mentioned in paragraph 4 of this warranty.

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 connection with the **Septic Tank**, its parts and/or components.

8. TRANSFER OF OWNERSHIP

In the event of transfer of ownership, sale, assignment or disposition in any other way of the Customer's property to a third party, this warranty shall continue to apply. The person proceeding to the transfer of the property, sale, assignment or any other type of disposition, undertakes to hand over to the Subsequent Purchaser or its Successor, the warranty certificate received 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 its duly authorized representative 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 law in force in the Province of Quebec and the provisions of this warranty.

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 case of contradiction between this warranty and any other documents and/or contracts entered into between the Customer and Premier Tech, this warranty shall prevail.

12. SUBSEQUENT PURCHASERS AND SUCCESSORS

Subject to the provisions of this warranty and of section 8 in particular, this warranty shall continue to apply to the Subsequent Purchasers and Customer's Successors and shall continue to have full effect until the end of the agreed warranty period provided for in section 2 of this certificate.



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☎ 418 862-6642

pta@premiertech.com

PREMIERTECHAQUA.COM

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