



Eco Water Solutions

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www.gorillapumpstations.co.nz



GORILLA PUMP STATIONS

Further and Faster

270L 'Big Silverback' Sewer Pump Station With AS/NZS 1546.1.2008 PS1 Engineer Certification for Council-approved inground installations.

BSB1 Standard
BSB7 Supreme

Optional 'GPS ALARM' High/Low Level Alarm Available

Installation Instructions

Thank you for purchasing an Eco Water Solutions SP range sewage tank and pump unit. These units are designed for tiny houses, baches, and basement level bathrooms built below the sewer line.

Unpacking

The tank is made of 'virgin plastic' polypropylene and is usually transported with the top half wrapped with cling-film.

Model BSB1 Standard has standard pump connected with pipework.

Models BSB7 has an upgraded pump in separate box to be assembled with mac union.

The pump is supplied loose packed in a separate carton.

Check that the pump is the required unit and inspect for any damage to tank and fittings.

Outlet connection

40mm pipework fitted. Attach ball-valve to outlet fitting.

Inlet Connection

100mm connection is predrilled and uniseal is fitted

Assembly

When fitting the 110mm o.d. sewer pipe into the sealing ring, it is best to apply soapy water to the ring, to ease insertion of the pipe.

Screw ball valve to outlet connection (use plumber's sealon tape)

Do not use the power cable to lift the pump.

Check all fittings are tight, as they may have come loose in transit.

Ensure that the pump is centred in the tank, and that the float switch is free to move up and down without obstruction.

Read the pump instruction manual supplied with the pump.

Please refer to the tank manufacturer's installation instructions attached for full installation details

For high water tables or soft soil substrates strapping should be attached from dead weight over the top of the tank from the two tie-down points as per manufacturer's instructions

The fitting of a high-level alarm unit is always recommended as the first line of defence against a fault. Councils require a high-level alarm for permitted and consented installations.

Venting Installation.

The unit is equipped with a snorkel vent, complete with mesh to protect against insects entering the chamber. Please ensure the vent is above-ground at all times and is not blocked.

If the tank is to be buried below-ground, contact us for a vent extension.

Cable Installation

An RCD (residual current device) must be used with this product!

A 50mm waste pipe is required also to act as a conduit for the pump power cable, as any cable installed in-ground requires installation in a conduit. A 50mm electrical (or similar, depending on Local Authority requirements) pipe will pass a 3-pin plug, and this enables installation without cutting the power cable, and so this eliminates the need for an electrician.

A 50mm white plug seal is provided to seal cable into outlet connection.

The power connection fitting is supplied. Use a plumbquick or similar to connect power ducting to tank connection. There is a white rubber seal bung to place cable into to seal the power outlet.

Tip: *if you ever withdraw the pump from the tank and need to remove the cable, tie a piece of string to the plug so that you can pull it back through the vent pipe later.*

When installing, draw as much cable out through the ducting pipe as possible, rather than let it coil up inside the tank.

*>> Never lift the pump by the cable, as that will damage the pump.
Always lift using the handle*

>> If a riser is required please contact your merchant for specifications and pricing.

Maintenance

- Tank requires regular checks to ensure no fat or oils have formed at the top of the chamber. **If not regularly checked the float may malfunction which will invalidate warranty.**
- Tank requires checking for solids build-up. Installation is required by a registered plumber.
- Check regularly for build-up of solids or any other matter in pump chambers.
- Periodically wash down the inner walls of the chamber with a high pressure hose to activate pump and thus flush out the chamber.
- Check that the vent pipe is also clean and free of any obstruction.
- A 24-litre grease trap is recommended between kitchen waste pipe and gulley trap.

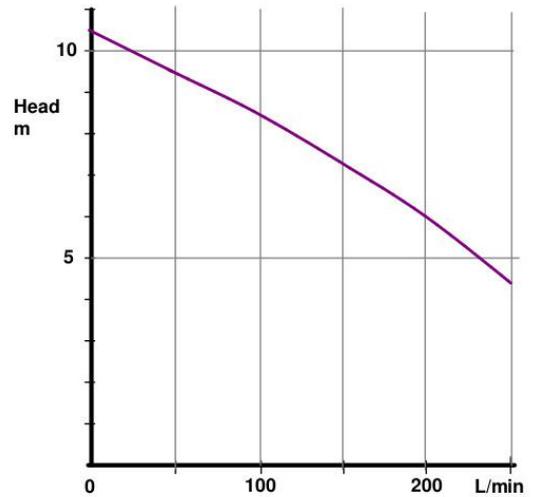
Please check on our website (www.gorillapumpstations.co.nz) for warranty conditions.

Read the pump instruction manual supplied with the pump.

Pump Specs

BSB1- VH100 Vortex Pump

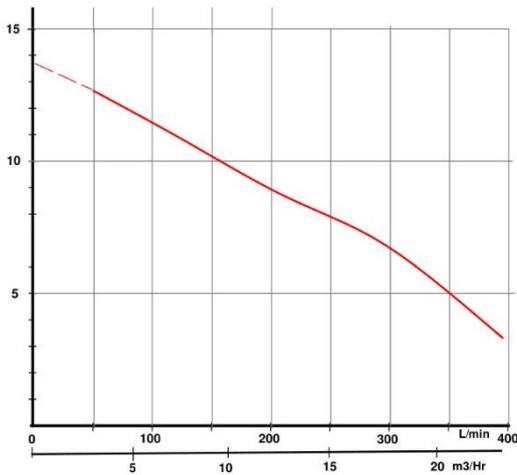
Rated Power	750W
Maximum Particle Size	32mm (NO sand, stones or gravel)
Cable Length	10 Metres



50L/m	@	9.4m
100L/m	@	8.4m
150L/m	@	7.2m
200L/m	@	6.0m
250L/m	@	4.5m

BSB7- TPG-100(N) Chopper Pump

100L/m	@	11.5m
200L/m	@	9m
300L/m	@	7m
350L/m	@	5m
Shutoff	@	14.5m



Rated Power	1.5HP, 1.1KW
Grinds To	10mm soft solids (NO sand, stones or gravel)
Cable Length	10 Metres

TT PLASTICS – PUMP CHAMBER INSTALLATION INSTRUCTIONS

THANK YOU FOR PURCHASING A PUMP CHAMBER FROM TT PLASTICS

KEEP YOUR PUMP CHAMBER UPRIGHT AT ALL TIMES. FAILURE TO DO THIS WILL VOID YOUR WARRANTY

The Pump Chamber is designed & manufactured to specifications to be installed above ground or underground.

Please read the following instructions before installation.

- A) It is recommended that the Pump Chamber be kept upright during transportation, to stop any of the pipework or pump from moving.
- B) If Pump Chamber is to be buried, dig a hole large enough for the Chamber to be placed with room for access to the inlet and outlet fittings, and a minimum of 100mm around the diameter of the Chamber for clean backfill material.
- C) Ensure that the base of the Chamber, either above ground or underground, is level. Lay quarry dust or sand on the base 50 – 100mm thick.
- D) If the Chamber is to be completely buried underground, ensure that provision is made so access to the screw manhole lid is accessible for future servicing.
- E) It is recommended if Pump Chamber is buried, to use the 2 tie down points to secure the Pump Chamber to stakes or pins, ensuring the Chamber does not move or rise in the ground.
- F) Attach the inlet and outlet pipe mountings and glue them into place. A 40mm thread is provided on top of the Pump Chamber – this is the vent. Pipe vent up and away from the Chamber. If Chamber is close to/next to the dwelling, the vent pipe must exceed roof level of the dwelling. This is to discharge smell above window level.
- G) IMPORTANT: Make sure pump is turned off and completely fill Pump Chamber with water before backfilling. This will ensure Pump Chamber will not move during backfilling.
- H) Backfill tank with clean light material. Do not use rocks, stony material or heavy clay.
- I) Power will need to be supplied to Pump Chamber. All power, including control panels, must be installed in a weatherproof location.
- J) Do not drive or walk on Pump Chamber.



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LEGAL LIABILITY – It is the sole responsibility of the Purchaser to ensure the pump chamber is legally compliant for the intended application and whether certification/consent is required by the relevant authority/council for the actual proposed application.

These warranty terms and conditions are applicable to New Zealand. Warranty excludes pump – please refer pump manufacturer's warranty.

1. YOUR TT PLASTICS WARRANTY

TT Plastics (Manufacturer) warrants that this pump chamber will be free from manufacturing defects in workmanship and materials and perform the function for which it is designed, namely the pumping and dispersal of household water and sewage. This warranty extends only to the original purchaser of the product when purchased and originally installed within the boundaries of New Zealand and terminates upon the transfer of ownership by the original purchaser prior to the expiration of the warranty period.

Should any fault occur within the warranty period as the result of a manufacturing defect, subject to the terms and conditions of this warranty, the Manufacturer will, at its discretion:

- a. Reimburse the purchaser the value of the chamber (pump chamber price only excluding freight) at the time of purchase; or
- b. Replace the tank with a new pump chamber. In such case, the purchaser must pay the difference between the current price of the replacement chamber less the amount determined under paragraph (a). The purchaser must pay the freight costs for the replacement chamber; or
- c. Repair the pump chamber. There will be no charge for parts, labour or the freight costs to repair the chamber.

Under no circumstances shall the Manufacturer or any of its representatives be held liable for:

- d. Any consequential or other damages, injury or expenses arising from the malfunction of the pump chamber; or
- e. Injury to any person or damage to any property; or
- f. Non-compliance to any Government, local body or environment council compliance code; or
- g. The costs of installation or reinstallation of products; or
- h. Loss of income of any description

however arising in respect of the products or their use.

You may have other rights. This warranty is independent of, and does not exclude or limit, any non-excludable statutory warranties by legislation.

2. WARRANTY PERIOD

This manufacturer warranty is valid for 2 years. The warranty period commences on the date of purchase. Repairs and replacements made under this warranty do not alter this warranty period.