

*SUNCOAST WASTE WATER MANAGEMENT*

Installation Manual

for

OZZI KLEEN

Greywater Treatment Plant

Model – GTS10



## PLUMBER'S INSTALLATION INSTRUCTIONS

The Ozzi Kleen treatment plant is suitable for installation in the ground, partially in-ground or above ground. In all cases, a level compacted sand base or concrete slab is required.

- A hole for installation will have to be excavated approximately 2.5 m across and 2.4 m deep with a sound level base.
  - A layer of bedding sand is required to make the finish level at 2.3 m deep (refer to drawing).
  - If the hole is over excavated, extra bedding sand will be required.
  - A normal installation of the treatment plant will locate the level of the inlet invert at 700 mm below natural ground level and 1600 mm above the sand base.
1. Install the treatment plant so that the tank is located central in the excavated hole with no less than 250 mm to the nearest side. Ensure that the backfill is placed evenly around the tank (see drawing).

**IF THE SYSTEM IS PLACED UNEVENLY IN THE HOLE SO THAT THE TANK IS NEAR TO TOUCHING A SIDE OF THE HOLE THIS WILL NOT ALLOW FOR EVEN BACKFILL AND CAUSE TANK INSTABILITY AND WILL HAVE TO BE RECTIFIED BY THE INSTALLER.**

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2. Install the treatment plant so that the base of the green motor box is no less than 50 mm above the natural ground level to avoid surface water entry.

**IF THE SYSTEM IS INSTALLED TOO LOW IT WILL HAVE TO BE RECTIFIED BY THE INSTALLER.**

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3. The Ozzi Kleen treatment plant is to be completely filled with water (approximately 4,500 litres) or up to the sewer inlet before any backfill is placed around the tank. Both the main tank and the effluent compartment must be filled.

**FAILURE TO DO SO WILL CAUSE TANK INSTABILITY AND ANY DEFLECTION TO THE TANK WILL HAVE TO BE RECTIFIED BY THE INSTALLER.**

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4. The system is to be installed in a position where local storm water flooding and ponding around the tank will not occur.

**IF THE SYSTEM IS INSTALLED IN A WATERCOURSE OR A FLOOD PRONE AREA THE SYSTEM WILL HAVE TO BE RELOCATED BY THE INSTALLER.**

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5. Landscaping or the importation of topsoil that is placed around the system after it is installed, which would cause the tank to be too low in the ground is to be avoided. NO ROCKS ARE TO PLACED ON TOP OF THE SYSTEM OR WITHIN 1 METER OF THE SYSTEM.

**IMPORTED TOPSOIL THAT MAY BE PLACED ON THE SYSTEM AFTER THE INSTALLATION WILL BE THE RESPONSIBILITY OF THE INSTALLER OR OWNER.**

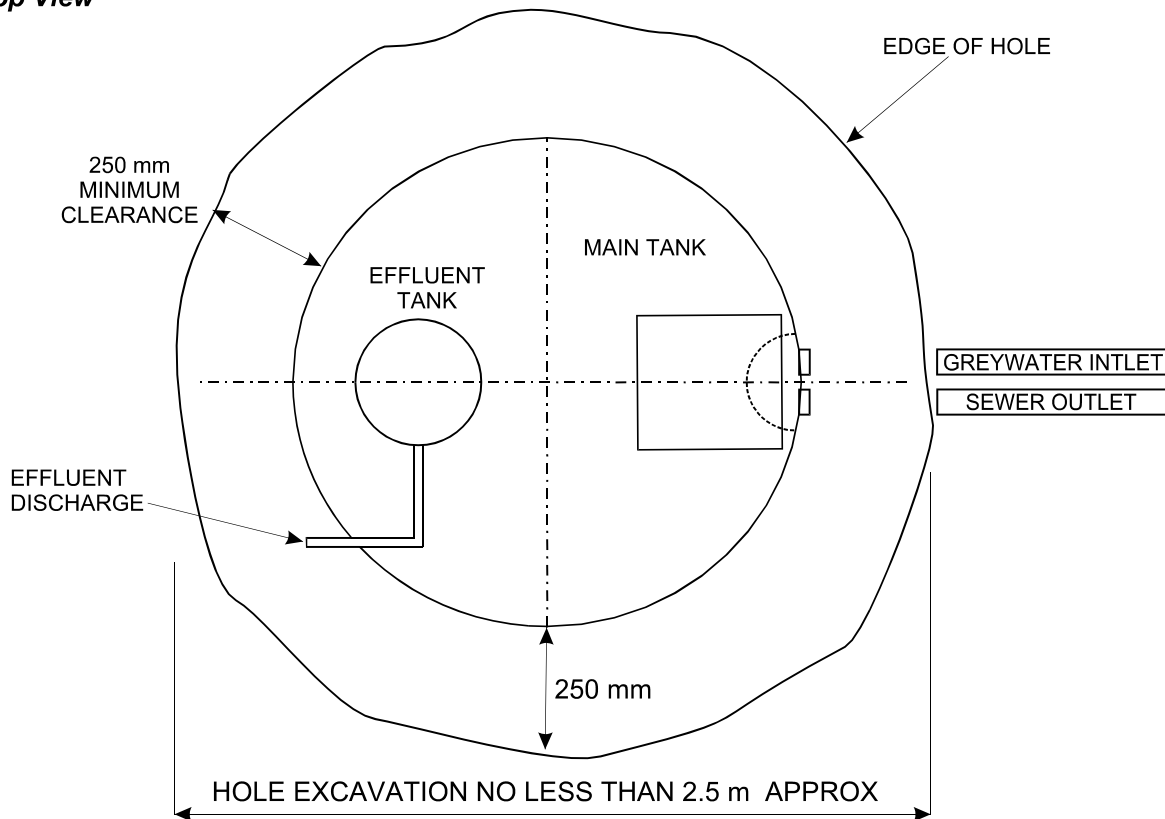
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6. When installing the system underneath a building ensures that there is sufficient head room for servicing.

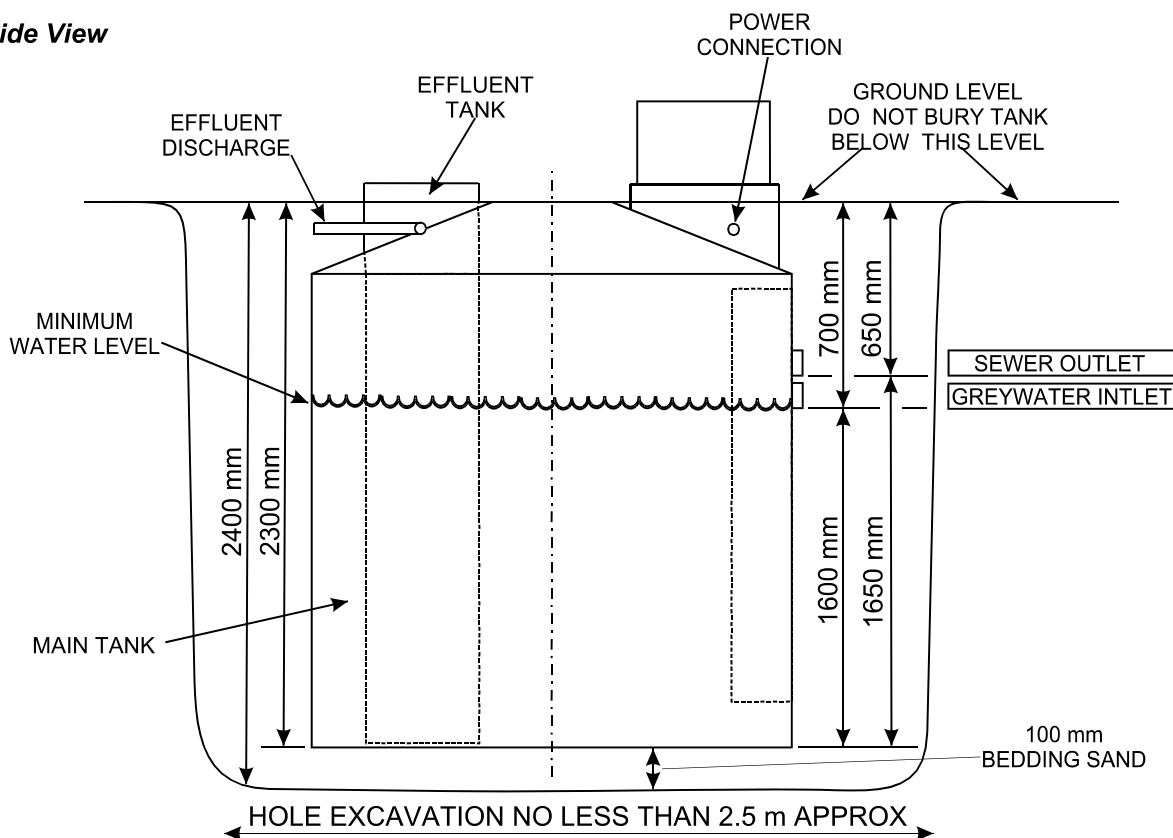
**A MINIMUM OF 1200 mm HEAD ROOM IS NEEDED FOR THE SERVICE REMOVAL OF SOME PARTS AND RETRIEVING OF WATER SAMPLES AT TIME OF SERVICE.**

**IMPORTANT: TANK IS TO BE CENTRALLY LOCATED IN THE EXCAVATED HOLE WITH NO LESS THAN 250 mm CLEARANCE TO THE NEAREST POINT.**

*Top View*



*Side View*



**IMPORTANT: FILL EFFLUENT TANK, FOLLOWED BY MAIN TANK WITH WATER, (APPROXIMATELY 4,500 LITRES) PRIOR TO BACKFILLING.**

**PLUMBER'S INSTALLATION CERTIFICATE – GTS10**

**THE OZZI KLEEN SYSTEM MUST BE INSTALLED AS PER THE FOLLOWING INSTRUCTIONS. THIS FORM IS TO BE FILLED OUT AND RETURNED TO THE MANUFACTURER OR THEIR AGENT AS PART OF THE OWNER'S WARRANTY REGISTRATION.**

**PLEASE TICK ALL THE BOXES DURING THE INSTALLATION**

1.  Excavate hole - 2.5 m diameter and approximately 2.4 m deep
2.  Place a layer of bedding sand in the hole
3.  Check depth from sand bed to natural ground level no greater than 2300 mm
4.  Check depth from inlet invert to bedding sand no greater than 1600 mm
5.  Check depth of inlet invert to natural ground level no greater than 700 mm
6.  Check that motor box hinges are at least 50 mm above the natural ground level
7.  Fill effluent tank, followed by main tank to sewer inlet with water (approximately 4,500 litres)
8.  Connect sewer piping to the sewer inlet and the sewer outlet
9.  Backfill around tank with clean earth only, (free from large lumps of clay, stones, bricks, foreign objects, or dumped rubbish from other trades persons)
10.  The irrigation system could be of several different formats, check for Council requirements

**INSTALLATION CERTIFICATION**

**The Ozzi Kleen system has been installed according to the above procedures by an approved installer.**

OZZI KLEEN SERIAL No: \_\_\_\_\_

DATE OF INSTALLATION: \_\_\_\_\_

LOCATION OF INSTALLATION: \_\_\_\_\_

OWNER'S NAME: \_\_\_\_\_

NAME OF INSTALLER: \_\_\_\_\_

INSTALLER'S LICENCE No: \_\_\_\_\_

INSTALLER'S SIGNATURE: \_\_\_\_\_

## **PLUMBER'S SPECIAL INSTRUCTIONS**

The treatment plant comes with two lifting lugs on the tank top suitable for lifting with a chain or rope. The tank weighs approximately 350 kg.

All greywater house drains excluding kitchen, i.e. laundry, bathrooms etc. are to be connected to a common drain prior to connection to the treatment plant.

The sewer inlet and outlet fittings are **100 mm DWV**, located on the side of the main tank.

The sewer inlet and outlet fittings are polyethylene plug-in sockets. The socket fitting is a female fitting, suitable for receiving a 100 mm DWV PVC pipe. In order to make the connection to the house drain, a stub of 100 mm pipe may have to be set into the tank inlet / outlet, with a compression coupling or repair joint installed to make the connection to the house drain.

Lay out the sprinkler spray line using the tee-junctions for the 4 sprinklers, set approx 8 metres apart along the length of the line. Connect the line to the pump discharge. Lay out the irrigation system in accordance with local Council requirements.

Use the purple-striped low-density poly pipe supplied, or similar. Blue striped pipe should not be used, as this indicates potable grade water. If a Council sample valve is required, it should be fitted to the discharge pipe using low-pressure irrigation fittings.

**CAUTION:** The standard pump installed discharges 40 litres/minute at an 8 metre head.  
A larger pump will be required for irrigation systems with a higher head.

**THE TREATMENT PLANT IS NOT TO BE USED IN ANY WAY, OR WASTE FED INTO THE SYSTEM UNTIL THE TREATMENT PLANT HAS BEEN FULLY COMMISSIONED.**

**THIS INCLUDES CONTRACTORS AND SUBCONTRACTORS DURING THE CONSTRUCTION OF THE HOUSE AND OWNERS WISHING TO TAKE UP RESIDENCY.**

**SUNCOAST WASTE WATER MANAGEMENT OR THEIR AGENT MUST BE NOTIFIED SO THAT COMMISSIONING CAN BE CARRIED OUT (i.e. TREATMENT PLANT PUT INTO OPERATION).**

**IF THE SYSTEM IS USED PRIOR TO COMMISSIONING, THIS MAY ATTRACT A PENALTY FEE FOR A SYSTEM CLEANUP.**

## ELECTRICIAN'S INSTRUCTIONS

INSTALLATION OF POWER TO THIS UNIT MUST BE PERFORMED BY A LICENCED ELECTRICAL CONTRACTOR IN ACCORDANCE WITH THE CURRENT ELECTRICITY ACT.

- The power supply to the Treatment Plant is a single-phase service and should be wired in 2.5 mm<sup>2</sup> cable.
- The alarm circuit is supplied from the control board and is 24 V DC. As the alarm cables are run with the supply cables to the plant, they must be rated for 240 V but may be 1 mm<sup>2</sup> cable.
- The maximum power consumption of the Treatment Plant is approximately 800 Watts.
- The air compressor is rated at 100 Watts.
- The effluent pump is rated at up to 750 Watts.
- The power supply to the system should come direct from the meter board and be protected by a 10 A RCD (Residual Current Device) and surge protection. The main power point may be considered for general use, therefore it must be RCD protected. It is recommended that the system be connected to an individual dedicated electrical circuit.
- The alarm mute switch and alarm lights are on a common switch plate, which is to be mounted in the Owner's house at an appropriate point. (The switch plate is found in the green motor box).
- There are 3 alarms available, all of which are activated via the 4 core alarm cable. The alarm connections are polarity sensitive and must be connected correctly
- Cabling between the dwelling and Treatment Plant should be installed using adequate protection/conduit. 2 cables will be required - 3 core for power supply and 4 core for alarm circuit.
- The Alarm Connections

Alarm Wire Colours	Alarm Plate Connections
• Red	• Terminal Strip on Alarm Panel
• Yellow	• Common on Mute Switch
• Blue	• Loop on Mute Switch
• Green	• 1 on Mute Switch

The power supply cable is brought into the Treatment Plant through the side of the tank turret at the top of the tank, referred to as the access manhole, and up through the floor of the motor box housed in the flexible conduit provided. The 240 V supply is to be connected to the main power outlet inside the motor box. The low voltage alarm wires are to be connected to the terminals inside the small round junction box below the main power outlet. The external electrical conduit to the system is to be 25 mm.

**Note:**

**The motor compartment on the top of the Treatment Plant is on a hinged lid and the wiring to this compartment passes through a flexible conduit provided. No external conduit or rigid conduit is to be fastened to the outside of the motor box. If extra flexible conduit is used for wire connection to the system, ensure that there is sufficient length to allow for the tilting of the motor box when it is opened. The power supply cable is to be connected to weatherproof outlet provided and alarm cable to be connected to terminal strip inside of PVC junction box provided. No other connections are required.**

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