NSW GOVERNMENT | Health

Certificate of Accreditation

Sewage Management Facility

Domestic Greywater Treatment System

This Certificate of Accreditation is issued by the Secretary of the NSW Ministry of Health pursuant to Clause 41(1) of the Local Government (General) Regulation 2005.

System: ***Ozzi Kleen model GTS10 DGTS***

Manufacturer: ***Suncoast Waste Water Management***

Of: ***59 Industrial Ave, Kunda Park, QLD, 4556***

The Ozzi Kleen GTS10 DGTS as described in Schedule 1, has been accredited as a sewage management facility for use in a single domestic premises in NSW. This accreditation is subject to the conditions of accreditation and permitted uses specified in Schedule 2.

Director, Environmental Health
for Secretary (delegation PH335)

Issued: *14 September 2015*
Certificate No: *DGTS-003*
Expires: *31 December 2020*

Schedule 1: Specification

Ozzi Kleen GTS10 Domestic Greywater Treatment System

General Description

The Ozzi Kleen GTS10 system is designed to treat all domestic greywater excluding kitchen wastewater from a maximum of 10 persons. The Ozzi Kleen GTS10 system is assembled in a single cylindrical vertical axis type roto moulded polyethylene tank manufactured by Suncoast Waste Water Management.

The treatment process within the Ozzi Kleen GTS10 system involves an aeration process consisting of three main cycles:

- **Aeration cycle:** the incoming greywater is aerated and oxygenated with air supplied by the air blower. The aeration cycle is maintained for a period of time to allow for a biological breakdown of the organic waste and establish an activated sludge within the wastewater;
- **Settling cycle:** After the aeration cycle, aeration ceases for approximately 60 minutes, allowing the activated sludge to settle to the bottom of the aeration tank. A layer of clear effluent is formed at the top of the aeration tank;
- **Decanting cycle:** After a predetermined settling period, a decanting cycle takes place. The decanter device draws off the clear effluent from the top of the aeration tank. The decanting cycle continues until either the liquid level in the tank reaches the minimum level or the process timer activates the system back into the aeration cycle.

While decanting the effluent is chlorinated and stored in a 520 litres effluent storage tank to ensure sufficient chlorine contact time prior to discharge. The operation of the submersible pump within the storage tank is controlled by a pressure switch and three float switches. When there is a water demand from the services within the dwelling, the pressure switch senses the pressure drop and turns on the pump.

The three float switches within the storage tank are set at different levels to control the discharge from the submersible pump and the mains potable water as a make-up water supply when required. Excess effluent can be directed to an irrigation system or through an overflow connected to the sewer.

Schedule 2: Conditions of Accreditation

1.0 General

1.1 For each installation the owner/occupier of the premises shall make an application to the local authority to install an Ozzi Kleen model GTS10 DGTS as a waste management facility in accordance with Section 68, Part C of the Local Government Act 1993 and Clause 26 of the Local Government (General) Regulation 2005.

1.2 The Ozzi Kleen model GTS10 DGTS shall be supplied, constructed and installed in accordance with the design as submitted and accredited by the NSW Ministry of Health.

1.3 Any modification or variations to the accredited design of the Ozzi Kleen model GTS10 DGTS shall be submitted for separate consideration and variation of the Certificate of Accreditation by the Secretary of the NSW Ministry of Health.

1.4 Each Ozzi Kleen model GTS10 DGTS shall be permanently and legibly marked on a non-corrosive metal plaque or equivalent, attached to the lid with the following information:
- The brand name of the system;
- The manufacturer's name or registered trademark;
- The month and year of manufacture.

1.5 The manufacturer shall supply with each Ozzi Kleen model GTS10 DGTS an owner's manual, which sets out the care, operation, maintenance and on-going management requirements of the system.

1.6 The manufacturer shall provide the following information to each local authority where it is intended to install a DGTS in their area once Ministry accreditation has been obtained:
- Statement of warranty
- Statement of service life
- Quality Assurance Certification
- Installation Manual
- Service Manual
- Owner's Manual
- Service Report Form
- Engineering Drawings on A3 format
- Detailed Specifications
- A4 Plans
- Accreditation documentation from NSW Health.

2.0 Installation and Commissioning

2.1 The local authority should require that on completion of the installation of the Ozzi Kleen model GTS10 DGTS, the system is inspected and checked by the manufacturer or the manufacturer's agent. The manufacturer or the agent is to certify that the system has been installed and commissioned in accordance with its design, conditions of accreditation and any additional requirements of the local authority.

2.2 The local authority should require that all electrical work must be carried out by a licensed electrician and in accordance with the relevant provisions of AS/NZS 3000.

3.0 Maintenance

3.1 The Council shall require the owner/occupier of the premises to enter into an annual service contract with a representative of Ozzi Kleen model GTS10 DGTS or a service contractor or company acceptable to the Council.

3.2 The Ozzi Kleen model GTS10 DGTS shall be serviced at three monthly intervals in accordance with the details set out in the owner's and service manual.

3.3 Each three monthly service shall include a check on all mechanical, electrical and functioning parts of the system including:

- The chlorinator and replenishment of the disinfectant,
- Pumps, air blower, fan or air venturi,
- The alarm system,
- Sludge accumulation in the treatment tank,
- Operation of the treatment cycles in the treatment tank,
- The effective operation of the effluent re-use options,
- On-site testing for free residual chlorine.

3.4 The local authority should require that a service report sheet, in triplicate, is completed for each service. The original shall be given to the owner, the duplicate forwarded to the local authority and the triplicate retained by the service contractor.

4.0 On-going Management

4.1 The owner's manual prepared by the manufacturer shall contain a plan for the on-going management of the Ozzi Kleen model GTS10 DGTS. The plan shall include details of:

- the treatment process,
- procedures to be followed in the event of a system failure,
- emergency contact numbers,
- maintenance requirements,
- inspection and sampling procedures to be followed as part of the on-going monitoring program developed by the local authority.

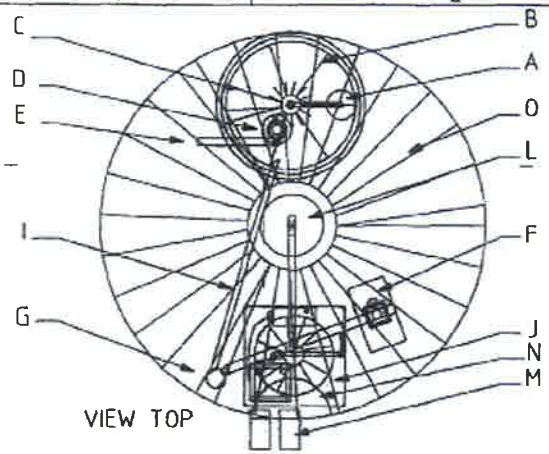
4.2 Effluent from the Ozzi Kleen model GTS10 DGTS taken in any random grab sample shall comply with the following standard:

• BOD^5	less than 20 mg/L
• SS	less than 20 mg/L
• E. coli	less than 10 cfu/100 ml
• Free residual chlorine	greater than 0.5 and less than 2.0 mg/L

5.0 Permitted uses

5.1 The effluent is suitable for re-use for the following purposes:

- toilet flushing;
- cold water supply to washing machine;
- garden purposes by irrigation of a type approved by the local authority.



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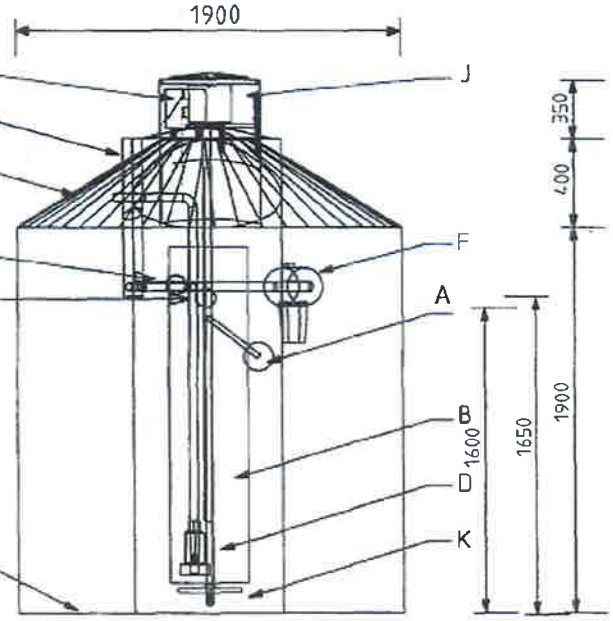

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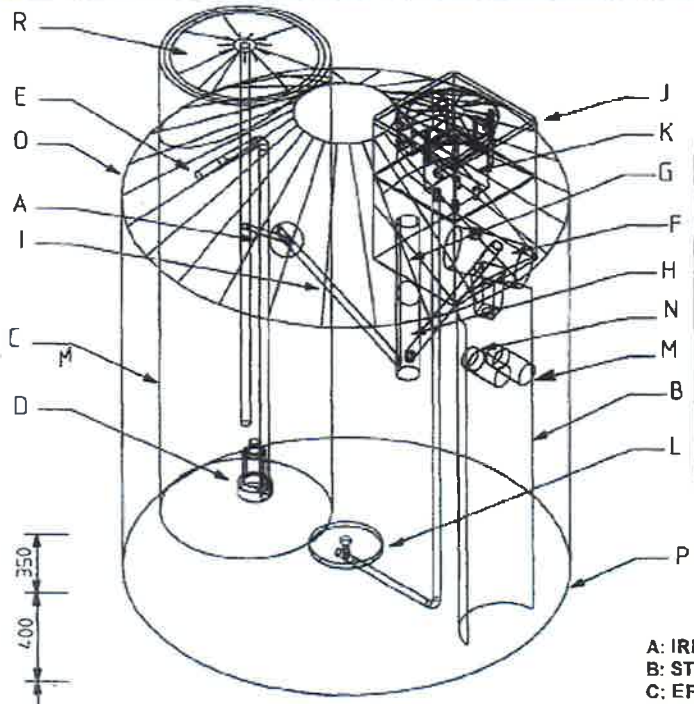

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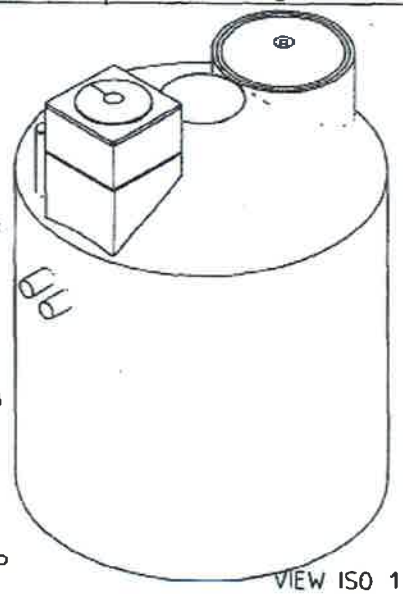

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APPROVED

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NSW MINISTRY OF HEALTH

A: IRRIGATION FLOAT SWITCH
B: STILLING WELL
C: EFFLUENT STORAGE COMPARTMENT
D: EFFLUENT PUMP
E: EFFLUENT DISCHARGE PIPE
F: FLOATING DECANTER
G: CHLORINATOR
H: CHLORINE CASSETTE
I: EFFLUENT TRANSFER PIPE
J: MOTOR BOX
K: AIR BLOWER
L: AIR DIFFUSER
M: HOUSE DRAIN INLET
N: OVERFLOW DRAIN OUTLET
O: TANK ROOF
P: TANK BASE
R: EFFLUENT WELL LID

	DRAWN: M. CLOSE	GREY WATER TREATMENT SYSTEM	SUNCOAST WASTE WATER MANAGEMENT 59 INDUSTRIAL AVENUE KUNDA PARK QLD 4556 Ph 07 5459-4900 Fax 07 5456-4677
DIMENSIONS IN MM	CHKD: D. CHEN	MODEL: GTS10	SCALE: N/A DATE: 20-09-2010 Drg: GT1000-01 Rev: 2