



Health

# Certificate of Accreditation

## Waterless Composting Toilet System

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

*System: Clivus Multrum Ecolet composting toilet system*

*Manufacturer: Clivus Multrum Australia Pty Ltd*

*Of: 3/14 Hinkler Court, Brendale, QLD, 4500*

*This is to certify that the Clivus Multrum Ecolet composting toilet systems 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, and in accordance with the Waterless Composting Toilets (WCT) Accreditation Guideline, May 2005.*

*Director, Environmental Health Branch  
for Secretary (delegation PH335)*

*Date of Issue: 23 September 2014*

*Certificate No: WCT 009*

**This Certificate of Accreditation is in force until 31 December 2019**



Health

Our Ref: 98/5300

23 September 2014

Ms Robyn Easton  
Clivus Multrum Australia Pty Ltd  
PO Box 5467  
Brendale QLD 4500

Dear Ms Easton,

**Certificate of Accreditation for Ecolet systems**

Enclosed is the renewed Certificate of Accreditation WCT 009 granted to your company under clause 41(1) of the Local Government (General) Regulation 2005 in respect of the Ecolet systems. The new Certificate is in force until 31 December 2019.

The Environmental Health Branch webpage will be upgraded in the near future and details of the Ecolet systems will be included in the section containing registers of accredited sewage management facilities. The webpage can be accessed on:  
<http://www.health.nsw.gov.au/environment/domesticwastewater/Pages/default.aspx>

Should you have any inquiries or seek to clarify the above please contact Mr Neil Shaw on telephone (02) 9424 5973 (Monday and Tuesday only) or email:  
[nshaw@doh.health.nsw.gov.au](mailto:nshaw@doh.health.nsw.gov.au)

Yours sincerely,

Neil Shaw  
**Senior Policy Analyst**

NSW Ministry of Health  
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## Schedule 1: Specification

### Ecolet composting toilet system

#### General Description

The Ecolet composting toilet system is designed to receive and treat human waste from a single toilet pedestal. Organic material may be added to the composting wastes as a bulking agent (peat moss mixed with wood shavings) at intervals specified by the manufacturer. The system is designed to reduce such wastes after a minimum composting period into an innocuous relatively dry waste that is capable of being disposed of within the premises without nuisance or risk to health.

The Ecolet composting toilet system is installed directly in the bathroom or separate toilet room. All of the liquid entering the system is evaporated. The Ecolet system is available as a manual unit, an automatic unit, an automatic XL unit and a non-electric (NE) unit.

The Ecolet system consists of two storage chambers:

- Composting chamber – Faeces, urine, toilet paper and organic matter in the form of a bulking agent are deposited into the composting chamber. After each use the composted material is mixed and aerated by turning the T-handle on the top of the Ecolet unit a couple of times. The Ecolet automatic (XL) unit has a fully automatic mixing mechanism which is activated when the seat is lowered after each use.
- Humus collection tray – The composted material is collected in the humus collection tray located in the bottom of the Ecolet unit. The frequency of the removal of the composted material depends on usage and will vary between 2-3 months to once a year. The manufacturer recommends that after each removal humus-starter material is added to the tray to maintain a balanced composting mix.

Air is drawn through the Ecolet unit by means of a 25 W fan installed at the rear of the toilet. The fan drives warm air through the air channels at the front of the unit; over the humus collection tray and up the ventilation pipe, which is attached to the rear of the toilet. The negative pressure, which the fan creates within the Ecolet unit, ensures that there is no offensive odour coming from the unit when in use.

The composting capacity and usage of the Ecolet system is expressed in the following table:

| Model               | Residential use                                  | Power        |
|---------------------|--|--------------|
| Ecolet Manual       | 2 persons full time<br>or<br>3 persons part time | electric     |
| Ecolet Automatic    | 3 persons full time<br>or<br>4 persons part time | electric     |
| Ecolet Automatic XL | 4 persons full time<br>or<br>6 persons part time | electric     |
| Ecolet NE           | 2 persons full time<br>or<br>3 persons part time | non electric |



## Schedule 2: Conditions of Accreditation

### General

1. For each installation the owner/occupier of the premises shall make an application to the Local Authority to install a Clivus Multrum Ecolet composting toilet system as a waste management facility in accordance with Section 68, Part C of the Local Government Act 1993 and Clause 29 of the Local Government (General) Regulation 2005.
2. For each installation the application to the local authority shall include:
  - 2.1 Plans and specifications of the nominated model of the Clivus Multrum Ecolet composting toilet system;
  - 2.2 A site plan drawn to scale showing the location and type of the proposed sullage disposal system for the premises and state the method of disposal;
  - 2.3 A statement detailing the proposed method of disposal of the composted end product, the frequency of such disposal and the estimated volume of composted end product to be removed;
  - 2.4 A statement on whether the composting system is likely to produce a liquid component and how it is proposed to dispose of the liquid. The statement shall be supported by detailed plans of any necessary liquid disposal system.
3. Installation of the nominated model of the Clivus Multrum Ecolet composting toilet system is restricted to the number of persons occupying a domestic premises as set out in the table attached to Schedule 1 and where in the opinion of the local authority the nominated model of the Clivus Multrum Ecolet composting toilet system will be capable of providing satisfactory toilet accommodation.
4. A permanent notice with basic instructions shall be affixed to the unit in a prominent position. The permanent notice shall include provision for recording the date the last time humus material was removed from the composting chamber.
5. The manufacturer shall supply with each system a comprehensive manual with details of the maintenance procedures necessary to ensure the efficient and safe operation of the system.
6. The Clivus Multrum Ecolet composting toilet system shall be installed and operated in accordance with the manufacturer's instructions and any conditions imposed by the Local Authority.

7. All sullage water shall be disposed of by means of a disposal system designed to the satisfaction of the Local Authority.

### **Installation and Commissioning**

1. The Local Authority should require that on completion of the installation of the nominated model of the Clivus Multrum Ecolet composting toilet system, 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. The Local Authority should require that all electrical work, where necessary, must be carried out by a licensed electrician and in accordance with the relevant provisions of AS/NZS 3000.

### **Maintenance**

1. Material, which has been only partially composted, may only be removed from the Clivus Multrum Ecolet composting toilet system with the written consent of the local authority. The Local Authority may issue instructions as to who may remove the humus and the method of disposal of the humus.
2. Unless otherwise directed by either the Local Authority or the NSW Health Department, the composted end product is to be disposed of by burial within the confines of the premises in soil, which is not intended to be used for the cultivation of food for human consumption. The minimum cover of soil over the deposited humus must be 100 mm.
3. Alternatively the composted end product may be retained for an additional period of three months in a lidded compost bin. At the completion the humus may be used as a soil conditioner without any further treatment.

### **On-going Management**

1. At the end of the second anniversary of the accreditation date and each anniversary thereafter, the manufacturer shall provide a list of all their installed Clivus Multrum Ecolet composting toilet systems by anniversary year of installation to NSW Health. NSW Health will randomly select up to 5 (number) or 10% of the installed systems (which ever is the greater) from each year of installation. The manufacturer, at its own cost, shall arrange sampling of these locations to be performed within two months. Sampling is to be organised by an independent JAS/ANZ accredited agency. Samples for faecal coliforms and salmonella are to be determined by a NATA registered laboratory. The results are to be reported to NSW Health by:

- address of premises,
- date sampled,
- sample identification number,
- faecal coliforms,
- salmonella
- service history, and
- graphs of accumulative data for faecal coliforms and salmonella results for each anniversary group.





APPROVED  
 2 2 SEP 2014  
 NSW MINISTRY OF HEALTH

no longer APPROVED  
 1 1 APR 2013  
 NSW MINISTRY OF HEALTH

| MODEL               | OPERATION       | USAGE                                    | ELECTRICAL RATING  | DIMENSIONS                                    | FOOTPRINT DIMENSIONS                            | MATERIALS  |
|---------------------|-----------------|--|--|---|---|--|
| ecoLet NE           | Batch Composter | 2 people full time<br>4 people part time | Non Electric   | Height = 64cm<br>Width = 40cm<br>Depth = 74cm | 65cm x 74cm<br>NB includes room to remove tray  | Outer casing of ABS Plastic.<br>Metal components of Stainless Steel.                                   |
| ecoLet Manual       | Semi Automatic  | 2 people full time<br>3 people part time | 240V<br>250W max - heater<br>225W + fan motor 25W                      | Height = 68cm<br>Width = 55cm<br>Depth = 74cm | 55cm x 135cm<br>NB includes room to remove tray | Outer casing of ABS Plastic.<br>Mixing device and other important metal components of Stainless Steel. |
| ecoLet Automatic    | Fully Automatic | 3 people full time<br>4 people part time | 240V<br>320W max - heater<br>250W + mixer motor 45W<br>+ fan motor 25W | Height = 68cm<br>Width = 55cm<br>Depth = 74cm | 55cm x 135cm<br>NB includes room to remove tray | Outer casing of ABS Plastic.<br>Mixing device and other important metal components of Stainless Steel. |
| ecoLet Automatic XL | Fully Automatic | 4 people full time<br>6 people part time | 240V<br>380W max - heater<br>310W + mixer motor 45W<br>+ fan motor 25W | Height = 66cm<br>Width = 65cm<br>Depth = 79cm | 65cm x 135cm<br>NB includes room to remove tray | Outer casing of ABS Plastic.<br>Mixing device and other important metal components of Stainless Steel. |