



Eco-Verm On-Site Organic Digester Standard Commercial Model

Vermiculture Canada is a licensed distributor for Tat-G Corp Pty Ltd, an Australian company formed to develop and market environmentally “Low Impact” best practice technologies and products. We have available a range of ‘On-site Waste Treatment Digesters’ for use by organic waste producers.

The **Eco-Verm (Tat-G) On-Site Organic Digester** has been designed to provide continuous processing of organic waste materials using ‘in situ’ earthworm processing technology based on sound vermiculture principles. A significant reduction in the cost and volume of waste being removed from a premises can be made by recycling on-site, i.e. food preparation waste, cooked food waste, lawn clippings, and other green garden waste, combined with cardboard and paper wastes.

The **Eco-Verm (Tat-G)** has been engineered to provide the right earthworm process environment and flow to do just that – Recycle your organic waste onsite, trouble free. The **Eco-Verm (Tat-G)** is maintained at optimum operating efficiency via a solar powered, electronically controlled moisture reticulation system, capable of being adjusted to suit different climatic regions and situations.



Essential to the operation, the solar powered control system ensures the internal environment is maintained at optimum for the earthworms to accelerate the reduction of organic waste to organic plant food. Solar powered control of conditions reduces temperature variations resulting in little effect on earthworm processing capabilities.

The solar powered system is via a 5 watt solar panel that feeds into a 7 amp hour battery which controls the internal moisture levels of the unit. This offers the pump ample battery redundancy, ensuring that the moisture control system can operate for up to 2 weeks in the case of poor weather conditions. The solar powered control system incorporates a regulator for battery protection.

Excess liquid released by food wastes as it is being processed by earthworms can be harvested regularly for use as an organic plant food, along with the solid worm castings produced by the system. Access to the **Eco-Verm (Tat-G)** is via a hand-cranked lid. Ease of operation and full top opening provides for simple access when ‘feeding’ your wastes to the unit.



The heart of the system is in its unique triangular design.

Processed waste material (castings) falls from the sides of the triangular cage into the collection trays below. There is very little area that is more than 300mm from the atmosphere, which is a key design feature. This accelerates the conversion process.

Moisture is collected from the base of the triangular cage and returned back to the pump via a collection tray and filter, utilizing the solar powered controller. The liquid can be pumped out for direct use on gardens and lawns via the onboard pump.

Seven large trays collect the earthworm castings and make for ease of handling when moving them to the garden. Worm castings makes excellent plant food, high in nutrients and essential soil microbes.



The unique Eco-Verm (Tat-G) shape also shields the sun from the unit; ensuring more even control of the internal environment via the solar powered controller. Components in contact with organic wastes are all galvanized ensuring long life and durability. Not one weld is used in its internal design, eliminating corrosion issues.

Removable outer sides provide access to the mesh panels, for servicing.

With the digester utilizing solar power as its key design feature, no additional services are required for its installation. A hose is utilized to top up the moisture control tank occasionally.

The Eco-Verm (Tat-G) can be expanded to meet the task at hand; economy of components can be achieved with one pump and tank servicing 2 units if required. Capacity of the unit can also be varied catering for seasonal variations in organic waste volumes.

The units are supplied in kit form for cost effective shipping and transport. Assembly can then be performed on-site.

The Eco-Verm (Tat-G) can be provided with an optional shredder (preferred), so that the maximum benefit can be obtained by reducing the volume of organic waste to be treated by your unit. Full written instructions for operation of the unit along with a comprehensive troubleshooting guide are provided, in addition to on-going support via phone and/or e-mail.

The system is accompanied by a full 24-month warranty on structural components and workmanship providing peace of mind, with 12 months warranty coverage on electrical and plumbing system components.

Specifications

Footprint	2.6m x 1.6m (8.5 ft x 5.25 ft)	Height	1.8m (6 ft)
Solar panel	5 watt	Battery	7.0 amp hr
Pump	Rule submersible 360 gal/hr	Timer	12v on-board computer
Trays	7 x 36 liters	Shredder	(optional)

Processing capacity

Up to 350kg (770 lb)/week on mixed food/cardboard blends. Higher on Manures.

CONTACT

Vermiculture Canada
Site 8 Box 23 RR 2
Tofield, Alberta, Canada
T0B 4J0
Phone: +1 780-662-3309
Email: info@vermiculture.ca

Manufactured by Tat-G Corp Pty Ltd



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Remote locations.



Resort applications



Clean & tidy