

ECOBOT[®]

WASTE CONVERTER SYSTEMS

Frequently Asked Questions



GLOBAL COMPOSTING SOLUTIONS LIMITED

PO Box 4442 Christchurch, New Zealand

p: +64 3 3778822 w: www.globalcompostingsolutions.com e: info@globalcomposting.com

What can I add to the Ecobot?

- Vegetable and fruit peels
- Meat, poultry & fish waste
- Leftover food including bakery items and eggshells.
- Animal manure
- Tissue and compostable plates
- Flowers and plants, leaves, and garden waste.

What shouldn't be processed?

- Plastic, glass, and metals
- Hard bones
- Coconut shells and branches
- Paper products
- Fat and oils, or food very high in fats and oils.

How much waste can I process?

- Units are available in a range of sizes from 10 kg/d through to 1000 kg/d.

How long does the process take?

- A soil amendment is typically generated in 15-24 hours.

What is the product?

- A fine, dark brown compost-like material that can be used as a soil supplement.
- Crumbly, loose, humus like material
- Earthy smell, almost odourless
- No recognisable material.

What can I use the product for?

- The Ecobot produces a rich soil supplement with high water retention capacity. It should be mixed with soil in 1:10 ratio for direct use in gardens or further enhanced through addition of fertiliser and other component for use in local gardens and nurseries.

Do I need to have green waste or other woody materials?

- No, indeed woody branches and similar materials should be avoided.

How does the Ecobot differ from food waste dehydrators that also claim to convert food waste to a product (“compost”) in 24-hours?

- ECOBOT works on a similar concept. However, due to the inbuilt shredder and design, it is significantly more power efficient than products from other companies. Ecobot also utilises a bacteria culture within the machine which continues to feed on the material even after it is unloaded and added to soil. It is important to recognise that the product is a soil amendment and not a full compost.

What is the power consumption?

- The power consumption is variable and dependent on the moisture and fat content in the waste. Typically, food waste consumes between 0.25-0.40 kWh per batch (each 24-hours) of waste added. The moisture sensor in the machines automatically puts the unit in power saver mode once the material has achieved the set moisture value.
- A 25 kg/d machine will use approximately \$1.12 to \$1.80 of electricity per batch @ 18c/kWh.

Do I need 3-phase power?

- Yes

I’m a remote site and generate electricity using a generator, which is normally switched off overnight. Will an Ecobot work for me?

- Yes, Ecobots have been installed multiple locations where this is the case including industrial locations and mines. However, the batches will take longer to process and overall consume more power as the machine will cool down overnight and will restart in the morning.

We only have functions at weekends or sometimes mid-week. Can I use the Ecobot to process my waste on the day of events and then turn it off when I don’t have an event happening?

- Yes, the machine can be operated intermittently. However, since the machine stays in Power Save Mode upon process completion, it does not need to be switched off. It can remain in Power Save mode till the next batch is ready to be fed.

What ambient conditions (maximum and minimum temperature) can the unit operate in?

- The standard ambient range is 4 – 50°C.