



User Manual

- Your Guide to Safe and Confident Use -



ISEP INSTITUTO SUPERIOR
DE ENGENHARIA DO PORTO

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1. Welcome to Loopbin

The Leftlovers team is excited to introduce Loopbin – a smart kitchen compost bin designed to help you manage food waste effortlessly and sustainably. Whether you're a seasoned eco-enthusiast or just beginning your journey into composting, Loopbin offers a convenient, clean, and stylish way to turn leftovers into something useful.

Crafted with a minimalist design, Loopbin fits seamlessly into any kitchen space. It's not only easy to use but also engineered with smart features like a built-in mixer, safety blades, and electronic sensors to ensure optimal composting performance with minimal effort on your part.

This user manual will guide you through assembly and operation of your Loopbin, as well as some composting tips. Our aim is to ensure your experience is both safe and enjoyable, giving you the confidence to get the most out of your new composting companion.

Please read this manual carefully before using your Loopbin Smart Compost Bin. It contains important information to ensure safe operation and optimal composting performance.

Here's what you'll find inside:

1. **Hazards & Warnings**

Important precautions to prevent injury and ensure safe use.

2. **Tips for Composting**

Helpful tips and setup advice for best results from day one.

3. **Parts Identification**

A guide to help you identify each component of your Loopbin.

4. **Operating Instructions**

Step-by-step instructions on how to use your Loopbin effectively.






5. **Warranty & Contact**

Information on warranty coverage and how to contact us if you need help.

Thank you for choosing Loopbin — together, we're making sustainability simple.



2. Hazards & Warnings

Symbol	Hazard	Precaution Measures
	<ul style="list-style-type: none"> The product contains rotating blades and sharp knives. Misuse may cause deep cutting to the skin and bleeding. 	<ul style="list-style-type: none"> Never insert hands or utensils while the product is operating. Always ensure the lid is closed after putting the food waste.
	<ul style="list-style-type: none"> The product contains cables and wires connecting with sensors and electronic components. Misuse may cause electric shock, short circuit or fire. 	<ul style="list-style-type: none"> Do not connect or disconnect the adaptor to an outlet with a wet hand. Do not clean with water when the adaptor is attached. Ensure the unit is plugged into a properly grounded outlet. Do not use in a way exceeding the rating of the household outlet or the wiring. Always ensure the appliance is operated on an electric power source matched to the rated voltage indicated on the adaptor.
	<ul style="list-style-type: none"> The product has a rechargeable lithium battery. Misuse may cause fluid leak, overheating or explosion. 	<ul style="list-style-type: none"> Do not charge the battery after it has been removed from the product. Do not throw the battery into fire or apply heat. If the battery fluid leaks out, do not touch the battery with your bare hands.
	<ul style="list-style-type: none"> Composts have risks of bacterial growth, mould and foul odours. Skin irritation may happen for sensitive skin when comes in contact with the compost. 	<ul style="list-style-type: none"> Wear gloves and use a shovel when collecting the compost from the storage box. Avoid composting meat, dairy or oily foods. (<i>Refer in table below</i>) Regularly monitor the composition of the compost.
	<ul style="list-style-type: none"> The product has risks of cracking, deformation or collapse due to excessive weight. 	<ul style="list-style-type: none"> Do not stack heavy items on top of the product. Place the product on a level surface to prevent tipping.

3. Tips for Composting

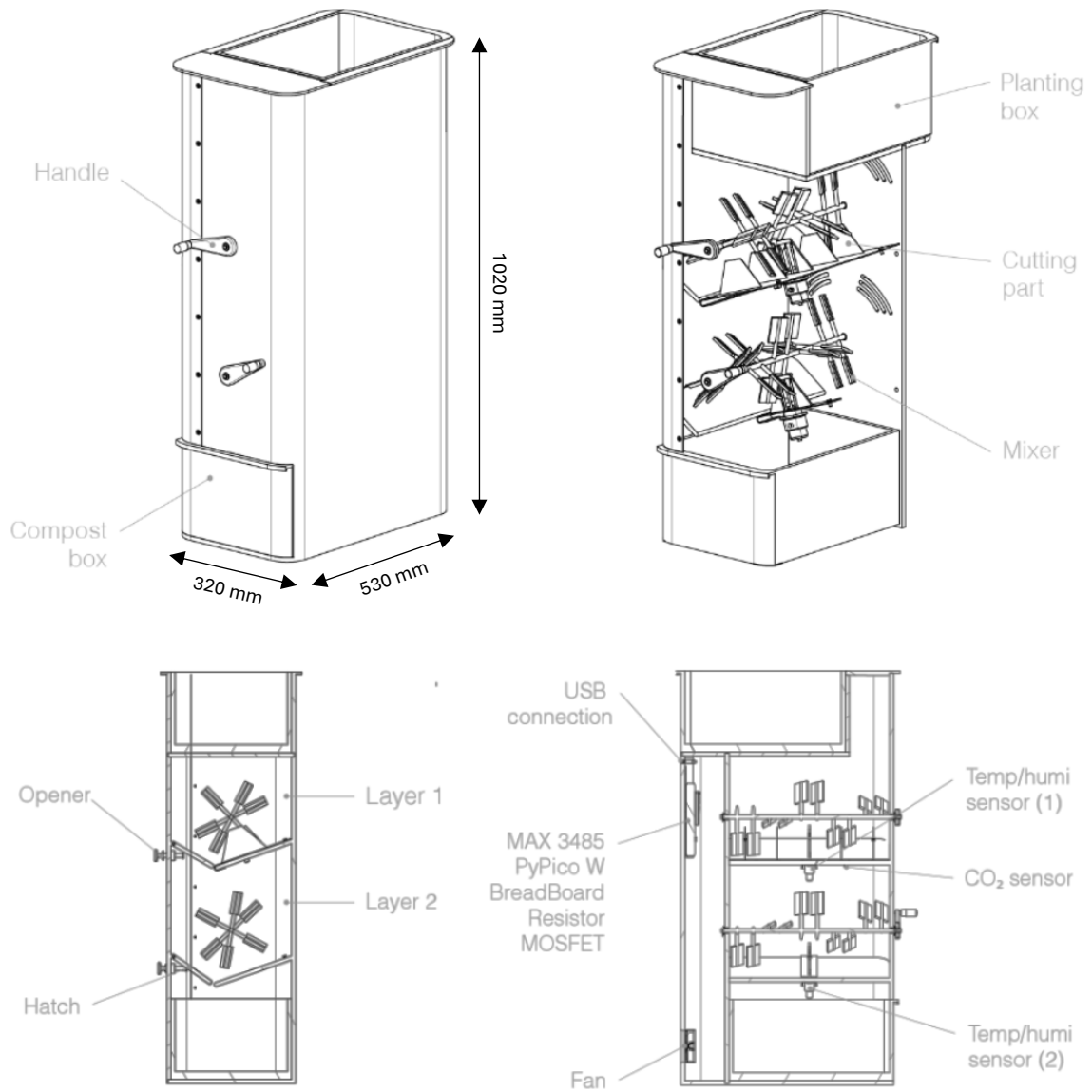
To get the high-quality compost from your Loopbin, focus on these key factors:

1. Air Circulation
 - Ensure good airflow.
 - Turn the compost regularly to prevent odour and support microorganisms.
2. Material Balance
 - 1:1 mix of greens (wet, nitrogen-rich) and browns (dry, carbon-rich).
 - Avoid overloading with one type of waste.
3. Particle Size
 - Chop food waste into small pieces (ideally 0.5 – 5 cm).
 - Smaller pieces decompose faster due to larger surface area.
4. Temperature
 - Compost efficiently at 50 °C to 60 °C.
 - Avoid extreme temperatures which slow microbial activity.
5. Moisture Content
 - Keep moisture at 55 % to 65 %.
 - Too dry? Add greens. Too wet? Add browns like shredded paper.
6. Oxygen Levels
 - Composting must stay aerobic.
 - Maintain oxygen levels between 7 % and 12 %. Never below 5 %.

For a pleasant composting experience, refer to the *Compostable & Non-Compostable Materials Table* below to reduce odours and ensure top-quality output.

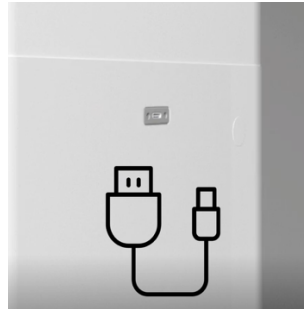
Compostable Material	Non-Compostable Material
Green Waste (Nitrogen-rich) <ul style="list-style-type: none">• Fruit peels and cores• Vegetable scraps• Coffee grounds• Bread, pasta and rice• Expired raw grains or beans• Corn cobs and husks• Eggshells Brown Waste (Carbon-rich) <ul style="list-style-type: none">• Nut shells• Dry leaves and branches• Wood chips• Paper bags, napkins, tissues	<ul style="list-style-type: none">• Meat, poultry and fish• Dairy products (milk, cheese, butter)• Oily or greasy foods• Bones and shells• Processed foods with additives• Packaged snacks, chips or candy• Chewing gum• Plastic tea bags or pods• Foil, plastic, or synthetic wrappers

4. Parts Identification



5. Operating Instructions

1. Connect the bin with the cable and adapter provided. Download the app “Loopbin” at the App Store or Google Play.



2. Open the lid on the top of the bin. Put the food waste (daily max. 0.3 kg) into the bin.



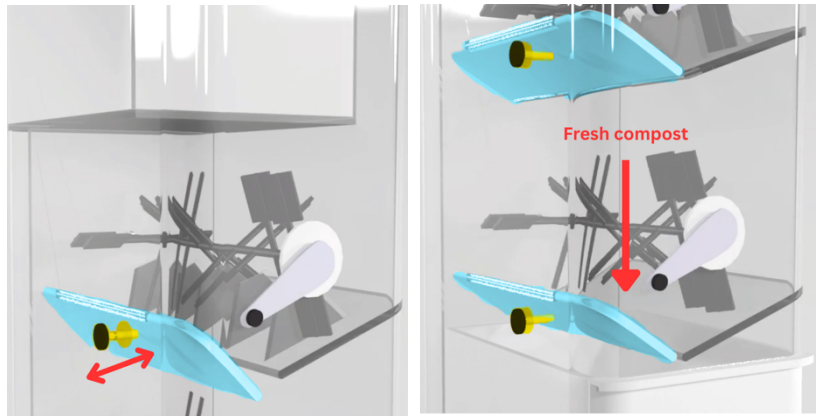
3. Rotate the mixer by using the handle at the first chamber.



4. Constantly monitor the condition of the compost using the app. The app gives you a notification when the hatch is ready to open, approximately after 4 weeks.



5. Transfer the compost to 2nd chamber by using the opener provided. Mix the compost again from time to time.



6. When the compost is ready to be collected, make sure to open the hatch before the storage box. If you wish, use the storage box for plants and place it on top of the bin.



Note:

- Energy consumption: 0.23 kWh/month
- Each layer of the bin has a capacity up to 10 L

6. Warranty

Thank you for choosing Loopbin. We stand behind the quality of our product and offer a limited warranty to ensure your satisfaction.

Warranty Period: 24 months from the date of purchase

What Loopbin warranty covers?

This warranty covers damage / defects in:

- Electrical Components: Sensors, microcontroller, ventilator fan, power adapter.
- Mechanical Components: Mixer, handle, blades, lid mechanism, structural integrity
- Materials & Workmanship: Damage caused by manufacturing defects or material failure under normal home use.
- During delivery process

What Loopbin warranty does not cover?

- Normal wear and tear (e.g., blade dullness, discoloration).
- Damage caused by misuse, neglect, or improper handling.
- Attempted repair or modification by unauthorized parties.
- Composting of non-organic materials that causes damage to the bin, or non-compostable materials that attract pests and animals.
- App performance when not using the latest update

If your Loopbin develops a fault during the warranty period:

- Contact our support team at leftlovers@gmail.com with your proof of purchase.
- Provide a description of the issue (photos or video recommended).
- Please note that any damage incurred during the delivery process must be reported within **7 days** of receiving the product.
- We will assist you with repair, replacement, or guidance as applicable.

7. Contact

Website: www.leftlovers.com

Phone: 673465678

Email: leftlovers@gmail.com



Follow us on Facebook, Instagram and X!

@leftlovers_loopbin

We are happy to answer any questions regarding our product and assist you throughout the Loopbin experience 😊