

Biolife

Where food feeds the future.

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ADDING VALUE, REDUCING WASTE, SUPPORTING QATAR

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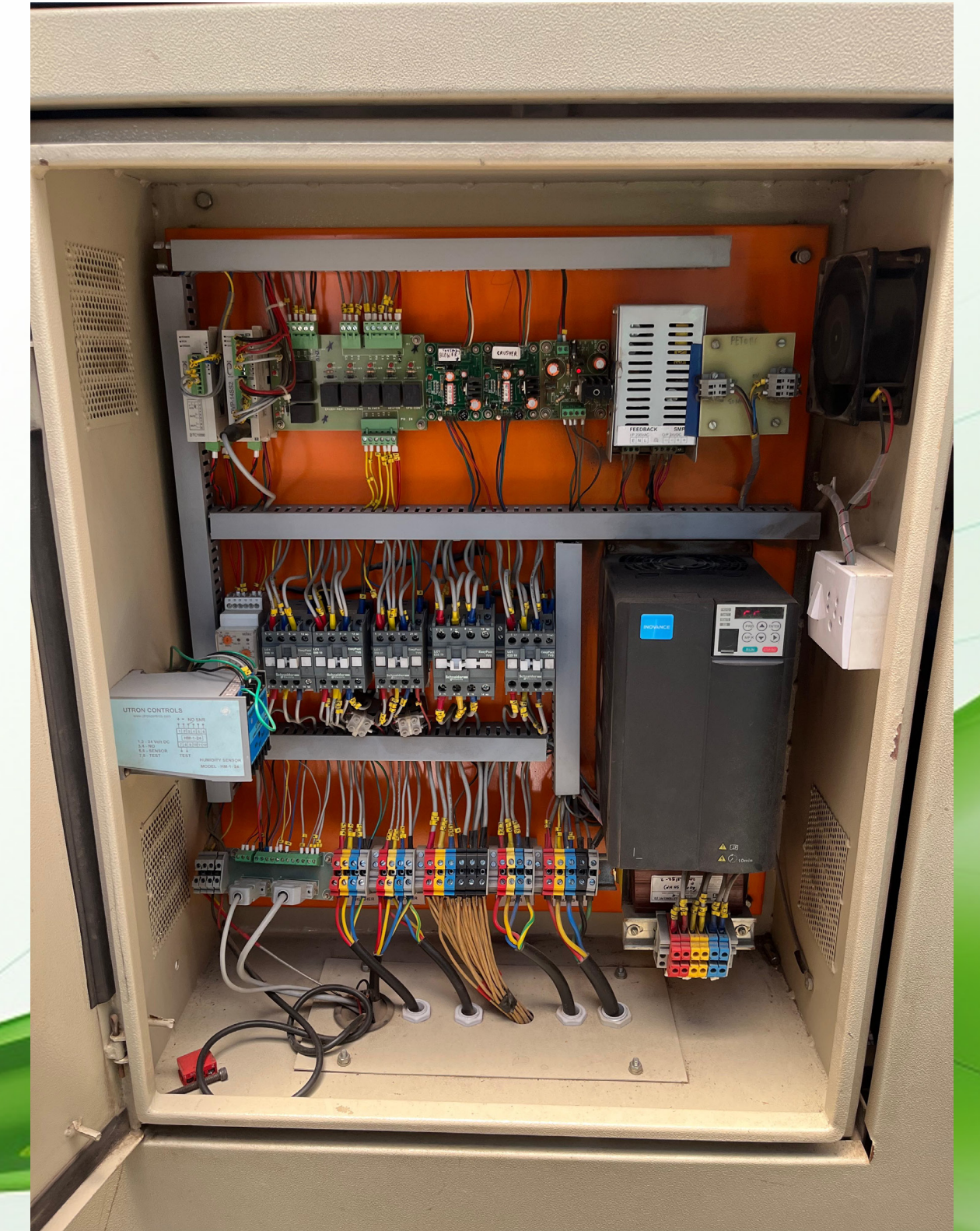
INTRODUCTION TO SMART XPRESS COMPOSTER

"INNOVATIVE BIO-MECHANICAL COMPOSTING FOR EFFICIENT WASTE MANAGEMENT"



WHAT IS AN ORGANIC WASTE COMPOST MACHINE?





SMART XPRESS COMPOSTOR:

Can Provide Machine for a tank Capacity from 50 kg/day - 1000 kg/day
(according to the capacity of waste we can feed each day)



COMPOSTING PROCEDURE:

- 1 Composting is a biological process which uses oxygen for degradation of organic waste to produce new smaller enriched biomass.
- 2 Composting needs oxygen, carbon additives, moisture and Microorganisms.
- 3 Compost can be used as soil conditioner/organic fertilizer in place of chemical fertilizer.



Process Flow



Collection of Organic waste



Segregated Organic waste



Output Compost



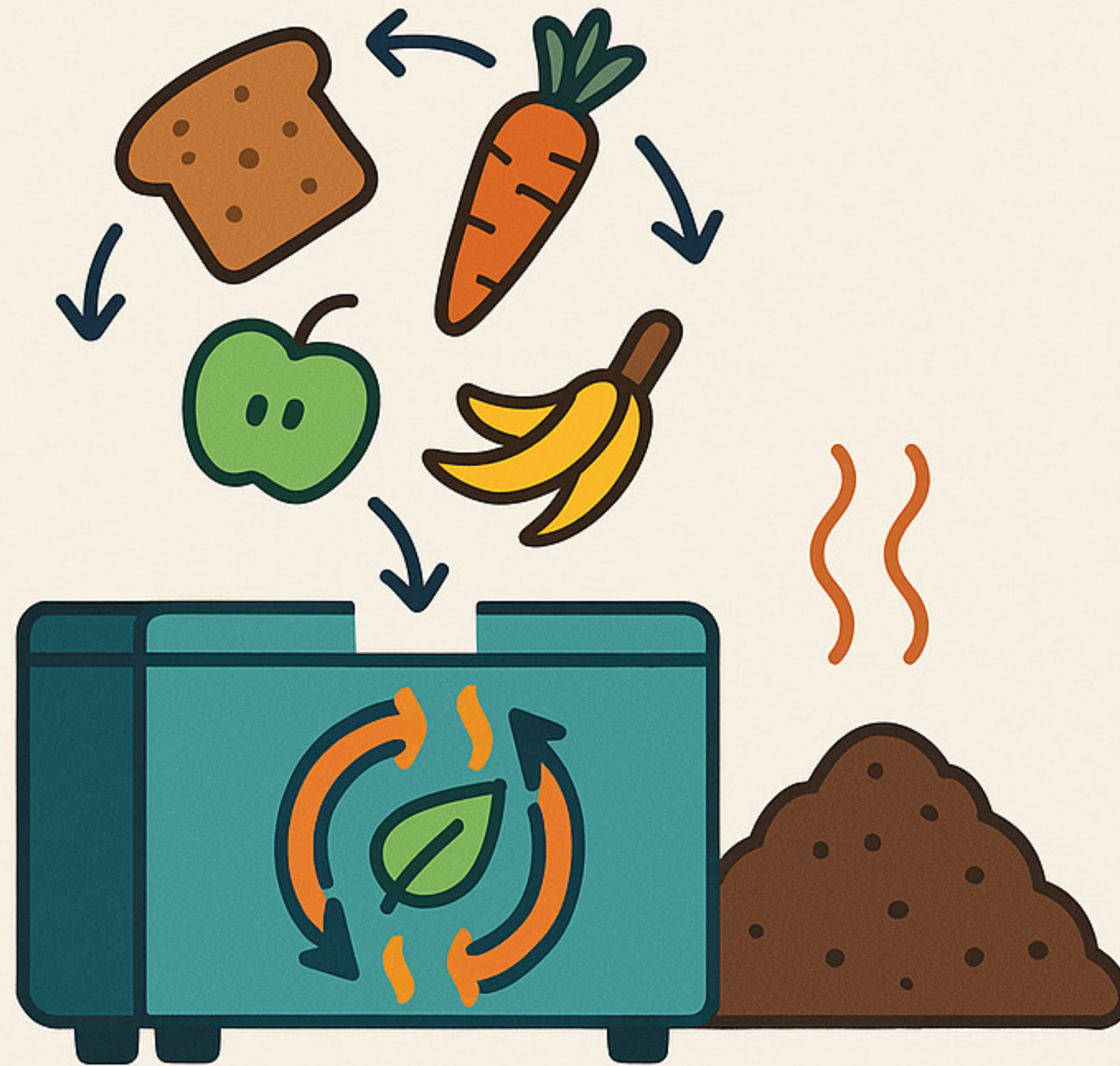
SMART Xpress Compostor

BIOLIFE FOOD DIGESTION MACHINE

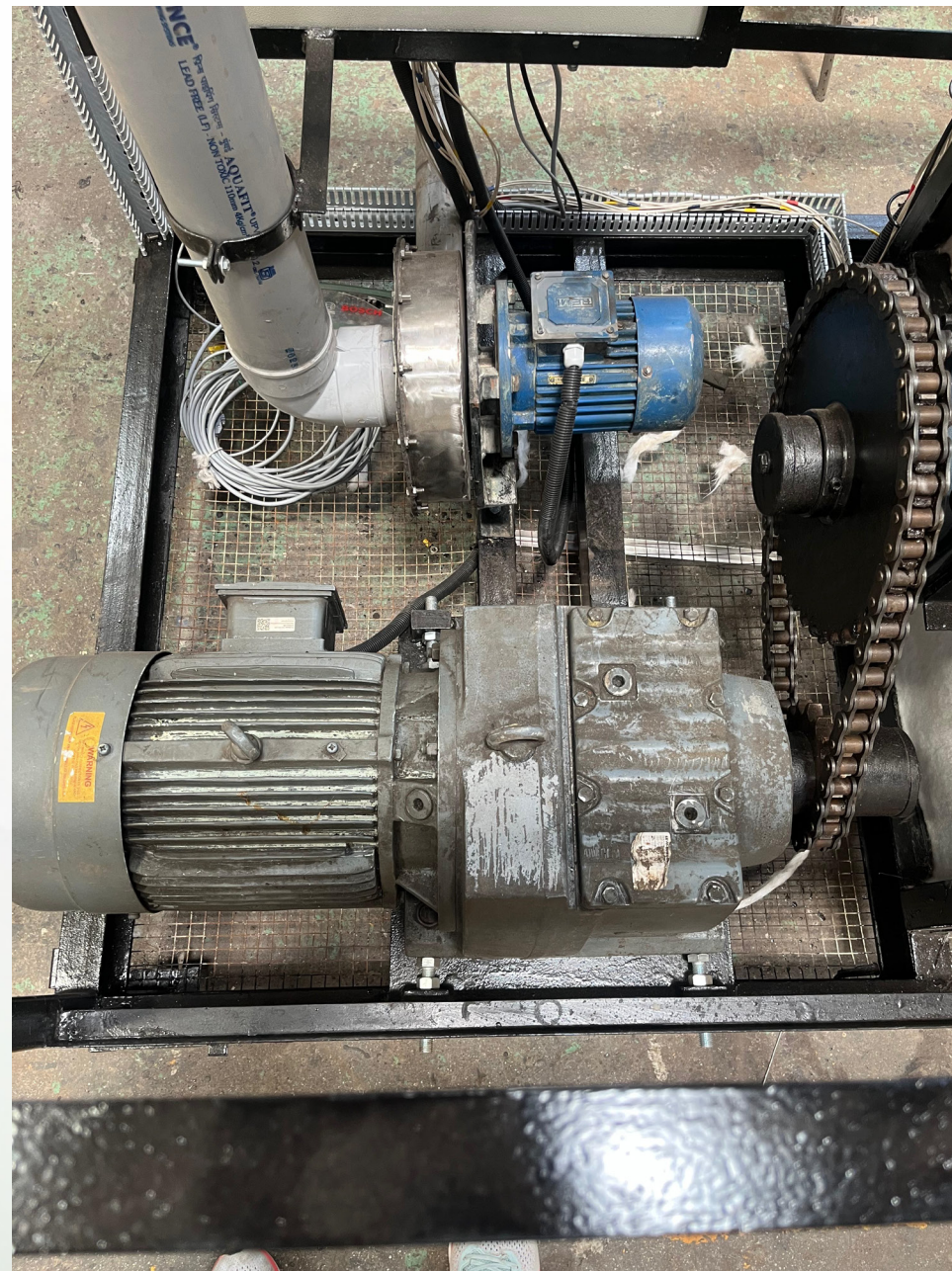
Key Highlights

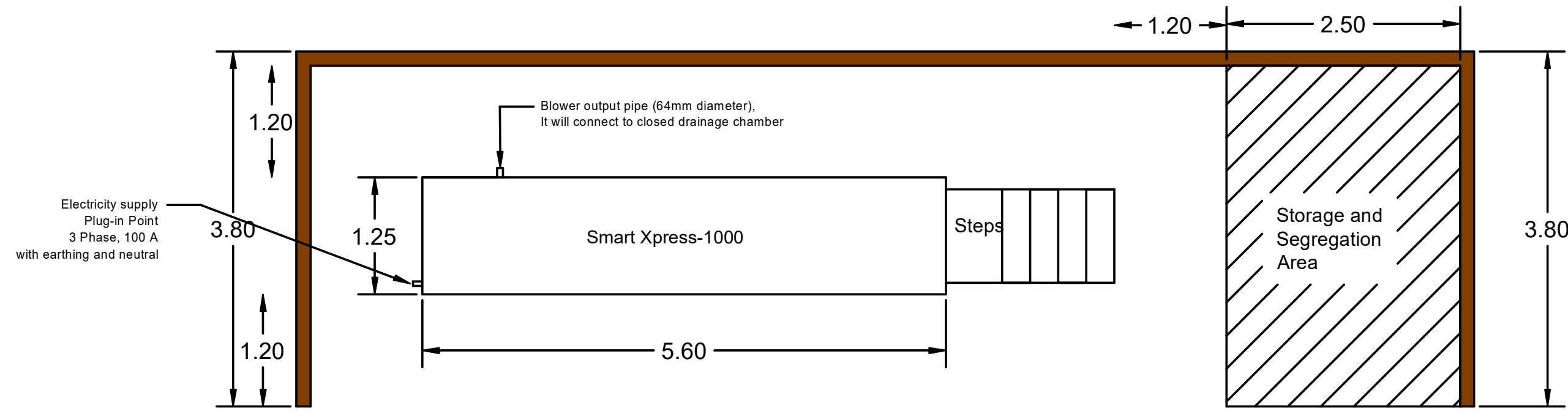
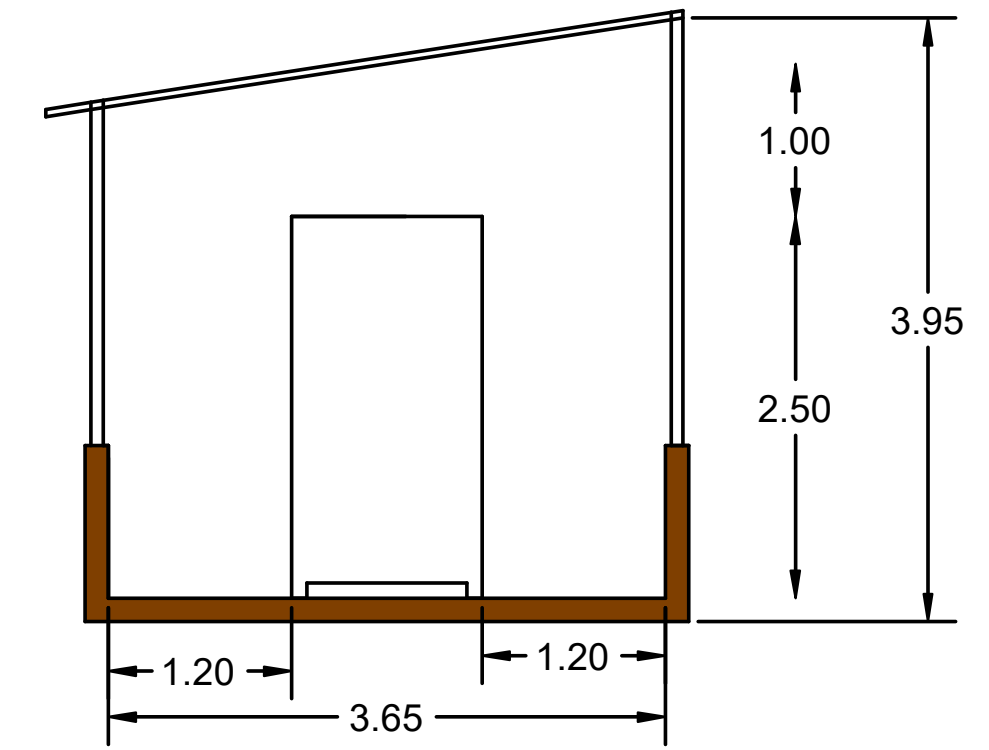
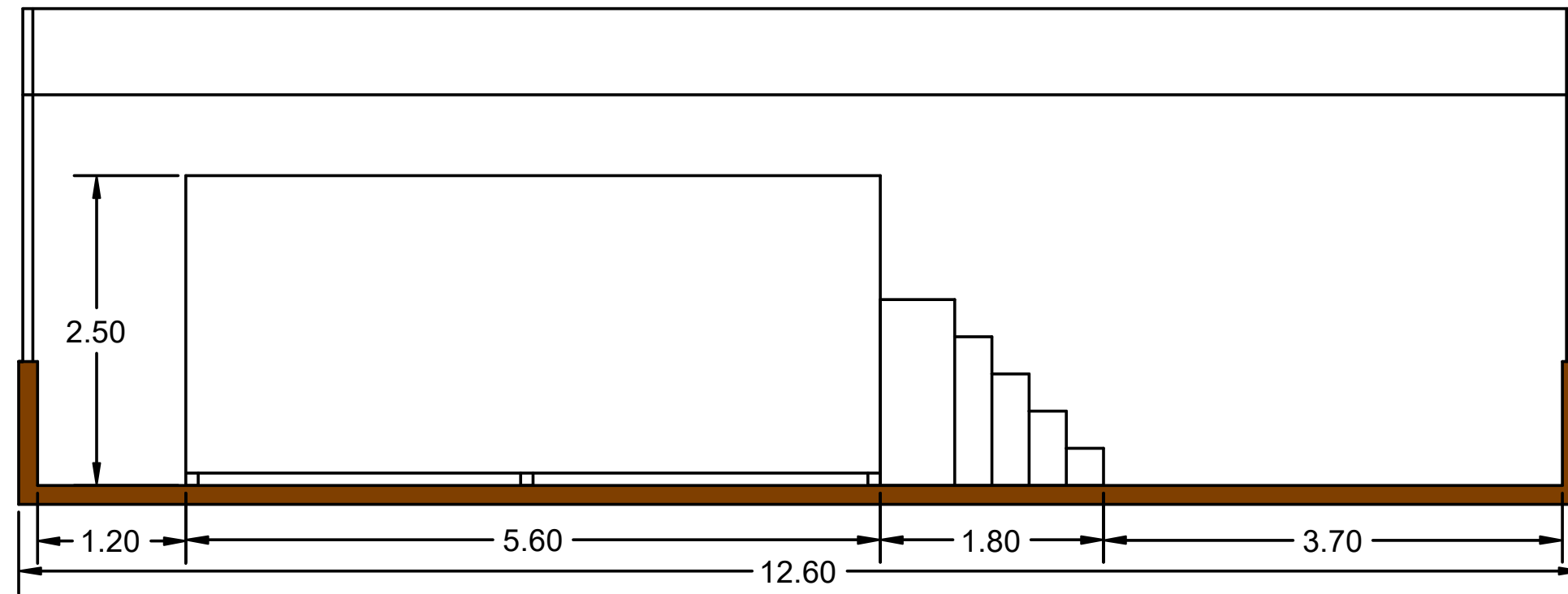
- Converts food waste into enriched biomass using aerobic thermophilic composting
- Built-in shredder handles tough materials like coconut shells and chicken bones
- Fully integrated system: includes shredding, heating, aeration, and curing Compact and efficient design for quick and hassle-free operation
- Ideal for sustainable waste management in urban and commercial settings

**Converts food waste
into enriched biomass
using aerobic
thermophilic composting**



SHREDDER AND MOTORS





Note: Three Side Half Brick wall, Keep Front Side Open

Installation Layout for Smart Xpress-1000 Composting Machine

SMART XPRESS COMPOSTER IS AN ADVANCED, BIO-MECHANICAL COMPOSTING MACHINE DESIGNED FOR EFFICIENT AND SUSTAINABLE WASTE MANAGEMENT.



Key Highlights:

Shredding, mixing, and composting all in one system.

Reduces waste volume and accelerates composting (2-3 days).

Produces nutrient-rich compost for agricultural or garden use.

KEY FEATURES & FUNCTIONALITY

"A Seamless System: Shredding, Mixing, and Composting in One Machine"

Integrated Process:

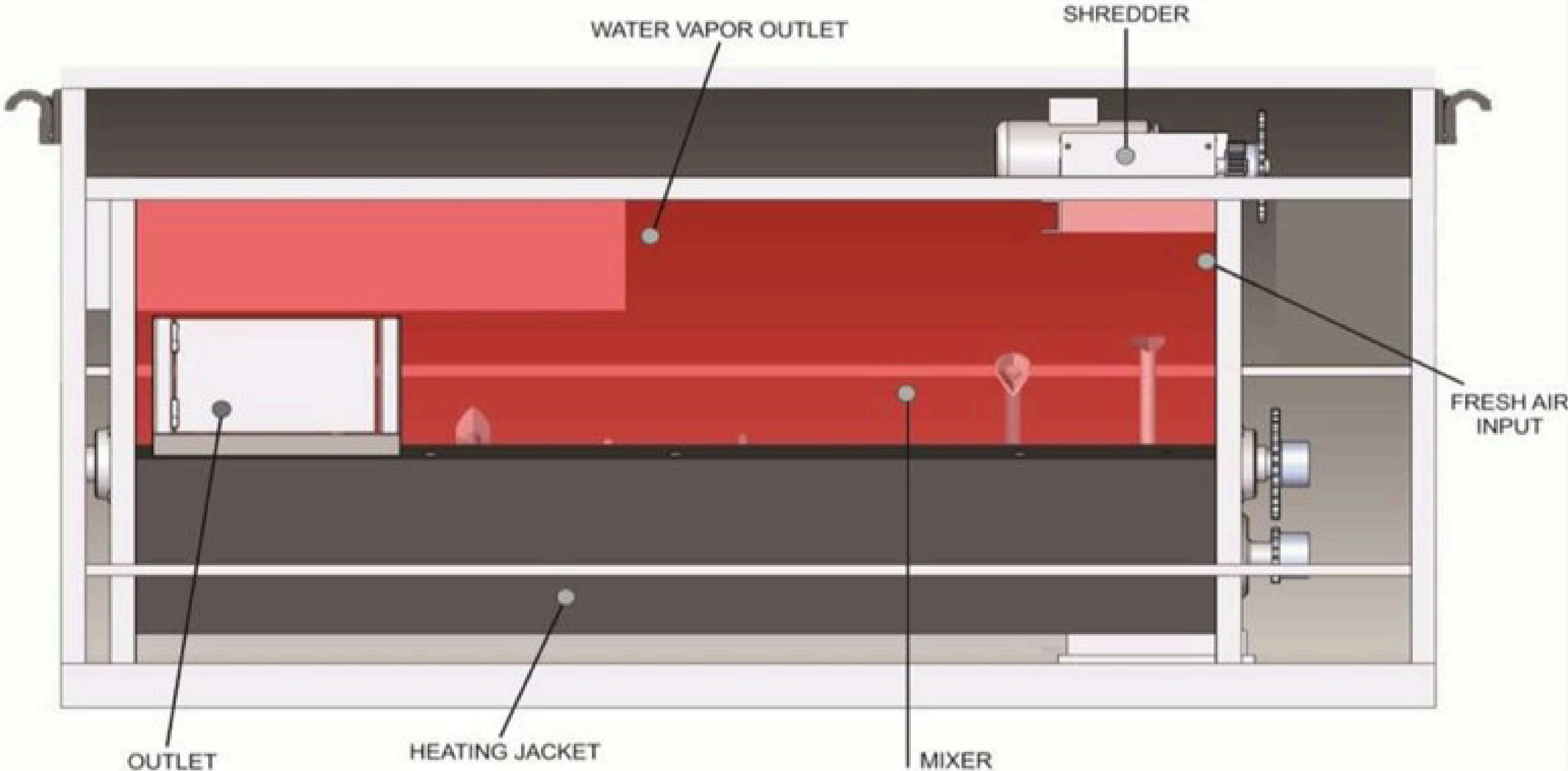
Shredding: Built-in shredder reduces waste size, increasing surface area for microbial action.

Mixing: Uniform mixing ensures even exposure to thermophilic microbes.

Heating: Internal heating maintains the required 50-55 °C temperature for optimal composting.

SHREDDERS AND MOTORS

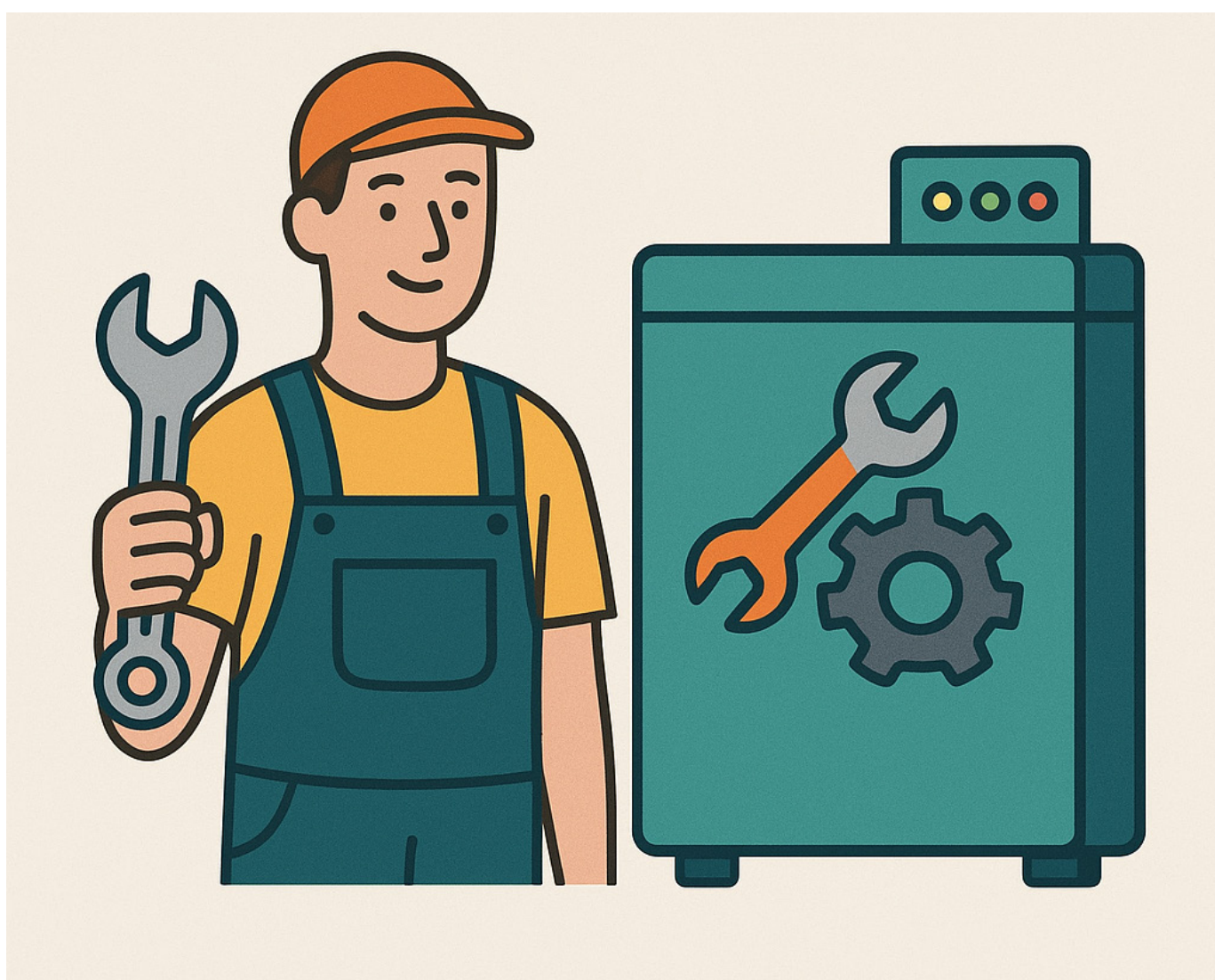
DIAGRAM FOR PROCESS FLOWCHART



PROCESS FLOW:

SHREDDING ⇨ MIXING ⇨ HEATING ⇨ AIR CIRCULATION / EVAPORATION ⇨ OUTPUT

MAINTENANCE MADE EASY—JUST FOLLOW THE STEPS.



Check Point	Frequency	Action Required
Crusher Blades Lubrication	Daily	Apply lubricant after waste loading.
Blower Mesh Cleaning	Every 2 Days	Remove debris to ensure airflow.
Crusher/Mixer Mechanism	Quarterly	Inspect for damage, lubricate moving parts.
Electrical Connections	Quarterly	Check for loose/damaged wires.
Emergency Switch Test	Quarterly	Verify functionality.
Gearbox Oil Level (if applicable)	Yearly	Top up if low.

CONCLUSION & BENEFITS

"A Sustainable Solution: Efficient Waste-to-Compost Transformation"

Environmental Impact:

Reduces landfill waste by converting organic materials into valuable compost.

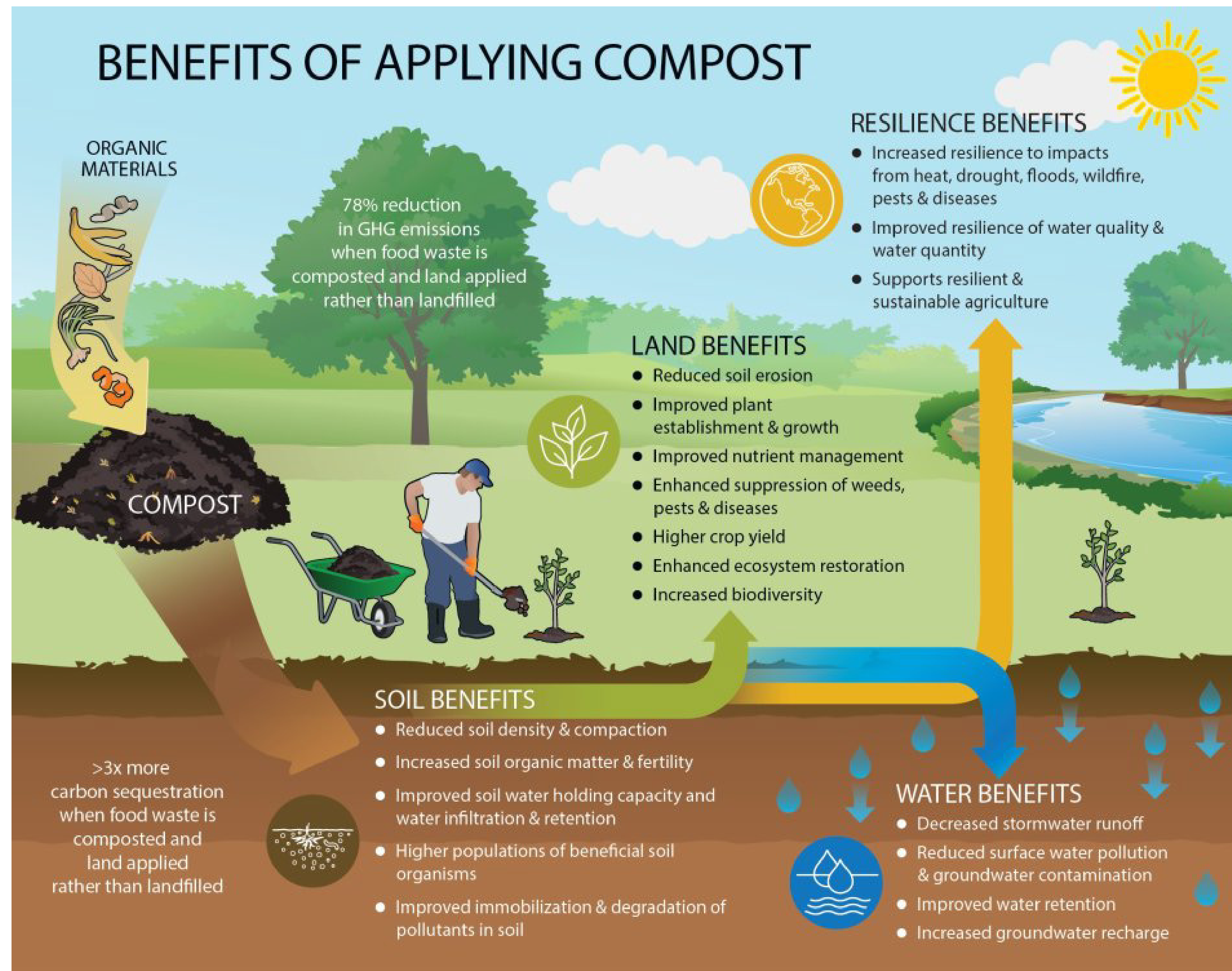


Reduces the need for chemical fertilizers, promoting soil health.



Agricultural Benefits:

The compost produced is rich in nutrients, improving soil structure and fertility.



Ideal for enhancing plant growth and promoting sustainable farming practices.

CONCLUSION

The Smart Xpress Composter provides an efficient, eco-friendly solution for organic waste management, delivering quick and valuable results for both households and agriculture.





Redefining Hygiene and Safety in Sanitary Napkin Disposal

Experience The Future of Hygiene

Sanisure is a state-of-the-art sanitary napkin incinerator, designed to provide a hygienic, userfriendly, and eco-friendly solution for the disposal of used sanitary pads.

Our advanced technology ensures complete and emission-free incineration, making it a perfect choice for modern sanitary needs.

Key Features:

Complete Incineration: Burns napkins at high temperatures (800-900°C) for thorough combustion.

Emission-Free Operation: Built-in air treatment mechanism ensures zero harmful emissions.

Fully Automatic: Designed for ease of use with no need for a middle operator.

Safety First: Advanced sensors and automated mechanisms ensure safe operation.

Efficient Process: Incinerates napkins in approximately 3 minutes



How it works:

Preparation: Place the used napkin in a brown paper pouch.

Loading: Insert the pouch into the Loading Bin Wheel or Stationary Square Bin.

Detection: Sensors detect the presence of napkins.

Incineration: The primary heater activates, initiating the burning process.

Completion: Treated air exits through the exhaust pipe, and ash settles in the Ash Tray.

Technical Specification:

- **Capacity:** 20-30 napkins/ Hour
- **Dimensions:** 560*650*1100 mm
- **Power Rating:** 3 kW, Single Phase 32A Connection
- **Exhaust Pipe Height:** max. 1 feet from the machine pipe
- **Exhaust Pipe length:** Max. 10 feet
- **Machine outside buffer area:** 0.5-1.0 feet from all sides
- **Electrical connection:** 20 A single phase connection

Benefits:

- **User-Friendly:** The Loading Bin Wheel offers a continuous feeding system, holding up to four napkins in separate compartments.
- **Eco-Friendly:** Lab-tested to ensure zero harmful emissions.
- **Reliable:** No decision-making required for the user; simply dump the napkins for hasslefree operation. No switches to press.
- **Convenient:** Designed specifically for the end user, eliminating the need for a middleman or operator.
- **Efficient:** Provides a quick and thorough incineration process.
- **Efficient Process:** Complete Burning

Contact Us



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Feel free to customize or add any additional information as needed!