Greeneria

AUTOMATIC ORGANIC WASTE COMPOSTING MACHINE



Nourish. Nurture. Nature





An innovation from Aruna Green Ventures Pvt. Ltd

A recent Gallup survey discovered that 94 percent of all consumers prefer to do business with individuals/entities that demonstrate they about the environment



Greeneria

Leachate, a byproduct of waste dumping into landfills, seeps into water tables leaving them permanently polluted. Precious reserves of water are thus made non-potable. Scientific in-situ processing of waste can ensure a healthy environment and clean water promise for the future generation.

INTRODUCING INDIA'S FIRST MOST ADVANCED, COMPACT AND FULLY AUTOMATIC ORGANIC WASTE CONVERTER IN INDIA!







With a footprint of less than a car park, this highly compact solution tends to over 500+ apartments! Unbelievable but true!

- Decentralized Waste Management Solution.
- AESTHETIC DESIGN: Designed to please aesthetic appeals.
- SMALL FOOT PRINT: Less than a single car park for a 250kg unit that caters to 500+ apartments/houses.
- REDUCED LABOR COST: Part time labor requirement reduces ongoing costs.
- SAFE HANDLING: No pathogens due to operations in high temperature thereby reducing health risks significantly.
- REDUCED RECYCLE TIME: Waste to manure duration is 1-3 days vis-a-vis traditional composting methods that require about 20-22 days.
- REDUCED TRANSPORT COSTS: In-situ processing eliminates transport costs.
- HASSLE FREE OPERATION: No multi-step process. Provide the input, plug & play!
- NO RECURRING COSTS: No refurbishing of bio-catalysts and saw dust. Our machines are provisioned with it.
- RODENT PROOF: Designed to keep rodents at bay.
- NON-ODOUROUS- Cleanest with negligible odour.
- LONG TERM SOLUTION: 25-30 years lifespan.
- MAINTENANCE/SUPPORT: Warranties and AMCs to ensure 24x7, 365 days of uninterrupted operation.

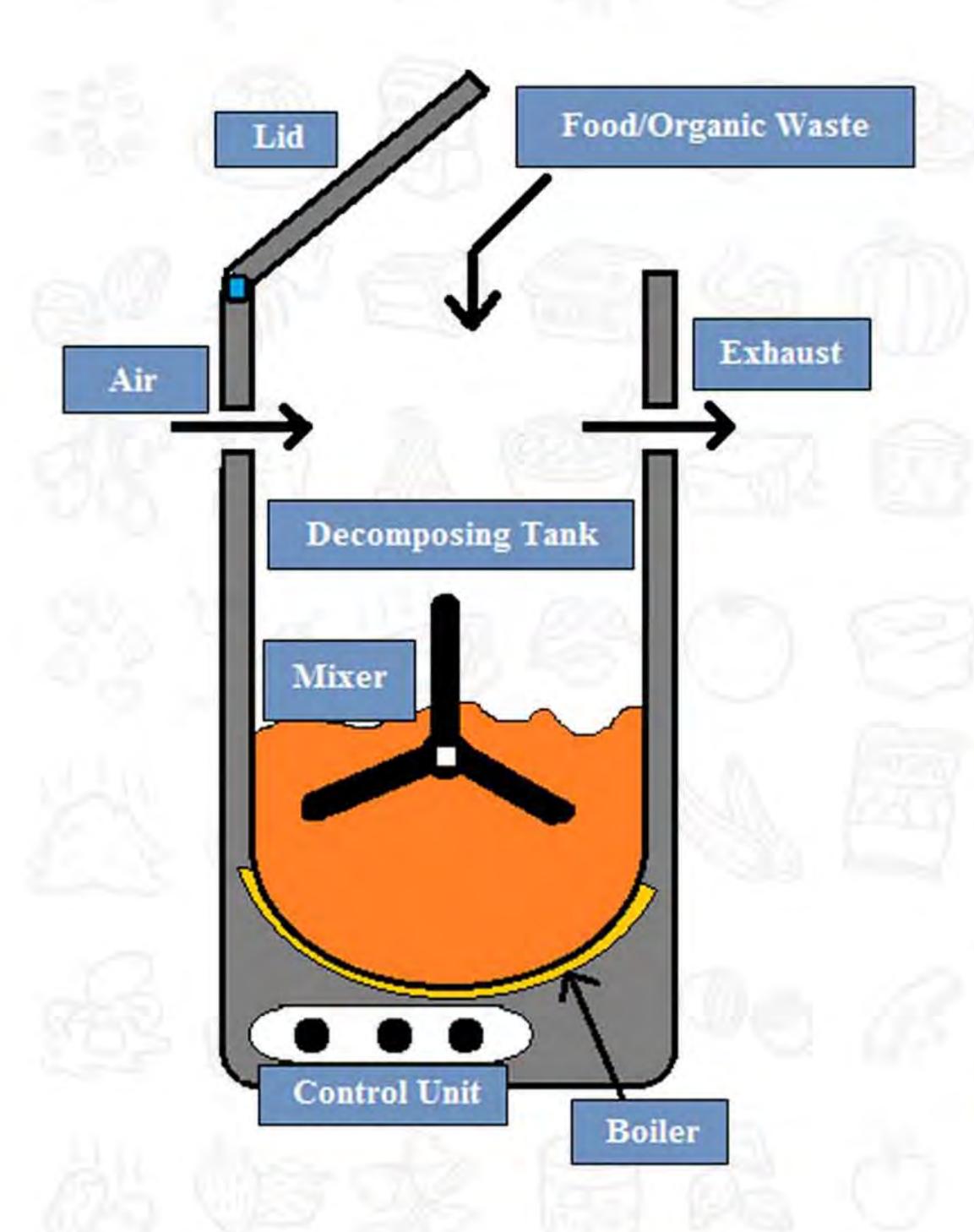


FIG: WORKING OF A TYPICAL OWC

Micro-organisms in our incubator feed on the organic matter and convert it into compost. Critical factors like temperature, moisture and oxygen are optimised for the bacteria to thrive and compost the organic/ food waste at a very fast pace.

Moisture and temperature are automatically regulated using sensors at the bottom of the tank whenever organic waste is added.

Fully aerobic digestion is facilitated by the periodic and intermittent rotation of the mixing blades(no crushing/grinding) to maximize microbe activation.

The actual decomposition is done by our special 'thermophilic' microorganisms which thrive in high temperature & high acidic or salty atmospheres.

The composted manure goes back as manure for our garden and farm needs.

PAKA	METERS	AUTOMATIC OWC	VERMICOMPOSTING	BATCH TYPE OWC	BIOGAS
TECHNOLOG		Special micro-organisms developed using advanced technology break down waste to compost within 24 hours		Just a crushing grinding mechanism. Requires addition of bio-culture and storage for 15 days to convert to compost	Biogas contains methane & CO2. Produced by anaerobic digestion of organic waste
PROBLEMS I	N SHORT	Apart from overload damaging the blades there are no inherent problems	Constraints on space, cannot process heavy bio waste, highly labor intensive, odorous, unhygienic, time consuming, problems of insects & rodents	Vermicompost problems + heavy maintenance	Vermicompost problems + heavy maintenance
OPERATION	& LABOUR	Fill it. Shut it. Forget it!!	Heavily labor intensive	Labor intensive – involves crushing, mixing, storage and humidification	Labor intensive – continuous monitoring, removal of sludge and pressure checks
REPLENISHIN ORGANISM.B SAWDUST	IG MICRO- IOCULTURE &	NEVER	NA	Addition of sawdust and bio- culture for every crushed lot	NA
VOLUME REI	DUCTION	90% reduction in weight (100kgs waste ~ 10/15kg compost)	40% reduction in weight (100kgs waste ~ produces 60kg compost)	50% reduction in weight (100kg waste ~ produces 50kg compost) 1500kg compost/month yields utilization and storage problems	60% reduction in weight (100kg waste ~ produces 40kg compost) 1200kg compost/month yields utilization and storage problems
SKILLED LAI	BOUR REQ	NA	Low	Medium to high	Medium to high
CONSTANT	MONITORING	NA	Very high	High. Storage and humidification	High
TIME FOR CO	OMPOSTING	24 hours	60-90 days	15 days	NA
RESTRICTION	ON WASTE	Even tough bio wastes like meat & bones get degraded in 2/3 days	Cannot process non-veg food, oily and spicy food	Can process heavy bio waste like bones and others. Takes 30+ days for degradation to compost	Cannot process egg shells, fish, chicken & mutton bones, fruit peels, etc.
COMPOST R	EMOVAL	Once in 10/15 days	Periodically	Daily	Daily
QUALITY OF	COMPOST	High quality compost	Good if managed well	Quality depends on the quality of human intervention, addition of proper/timely bio-culture, water etc	Slurry cant be used directly for plants but only after composting. Mediocre to good as there are many parameters that decide the quality
ODOUR	71 - 225-	No Odour	Heavily mal-odorous	Odorous if not managed properly	Odorous if not managed properly
PROBLEMS (RODENTS	OF INSECTS &	NA	Insects and rodent magnet!	Flies, rats, insects hover near the stack of trays filled with compost during the curing process	Insects and flies problem if not managed properly
QUALITY/DU	IRABILITY	Highly durable	NA	Frequent Breakdowns	NA
AESTHETICS	100000	Brightly coloured	Not pleasant	Average	Not pleasant
OPERATING		INR 0.75/kg of waste. No other costs	INR 2-5/kg on maintenance, bioculture, dry leaves + labor	INR 3-5/kg as labor, sawdust, bio- culture, water, maintenance costs	Labor costs offset by use of biogas
CAPITAL IN\	/ESTMENT	Shortest ROI	Low	Moderate	Moderate
SPACE REQ	- P	One car park or less	Pits require huge space	Huge space requirement	Huge space requirement
INSTALLATIO	ON	Plug & Play with a drainage provision	15-25 days	2-3 days	25-30 days

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RECOMMENDATIONS

- Compost from the machine should be mixed with soil in the ratio of 1: 10, before using as manure. Additional nutrients may need to be reinforced if used for food farming.
- Dry garden waste should be moistened to facilitate composting. Care should be taken to only moisten the waste and not make it dripping wet.
- Garden waste should be shredded additionally for better results. Large stems, barks, etc must be shredded before being fed into the composter. Can be supplied at an additional cost based on the capacity and model.

DOs' & DONTs'

- DONT add hard/sharp materials like coconut shells, large animal bones, metal and stones, or sharp tools. They will damage the plates and the tank.
- DO clear your compost, once it reaches the red level. Excess compost might enter the motor assembly and spoil the motor.
- DO maintain the optimum quantity of wet waste recommended for your machine. Larger than the recommended quantity will overload the machine and result in damage of the heater and compromise on the quality of compost.
- DO place a buffer of 3-6 days on composting of pure garden waste since they are drier than typical food waste.

THE PROCESS

COMPOSTING METHOD	MICRO-ORGANISM BASED NATURAL COMPOSTING			
Treatable items	Vegetables, Fish, Bread, curry, roti, meat, animal bones, garden waste & other compostable organic biomass.			
Untreatable items	Metal waste, plastic, glass, big bones, large shells, petrochemicals, stones			
Processing time	Most organic items are composted in 24 – 48 hours			
Removal of compost	Required once in 8 to 10 days. Though compost is formed in 24 – 48 hours, such prolonged processing helps in maturing			
Use of Output	Can be used in Gardens directly, after mixing with soil in 1:10 ratio. Must be matured if used in farms for food.			
Leach ate/ water Discharge	None			
Gas discharge	No harmful discharge; Only water vapour .			

TECHNICAL SPECIFICATION

OPERATION	Fully Automatic		
OUTPUT	Organic Manure		
INSTALLATION REQUIREMENTS	Almost Plug and play. Vent to be connected outdoors or storm water lines. No need of water inlet. Water may be required, only to clean the machine externals and any spilled waste.		
CONTROL SYSTEMS	PLC Based		
COMPOSTING TANK	SS		
HOUSING	M.S with Powder coating or SS panels as a variant.		
INPUT/OUTPUT	Door for waste input Separate door for getting out compost		
HEATER	Insulated oil heating chamber or Heating pads as a variant.		
OTHER FEATURES	 Provided with waste overload function Indicators for Power mode, heater & power saving mode Stainless steel (SS304) shaft & mixing blades Safety feature: Internal mixing blades automatically stop when hopper door is opened (in auto mode) Can be run in auto mode or manual mode Internal shaft turns and sends out the compost, when the compost door is opened 		
DOORS	Separate door for waste input & separate door for compost removal		
PREFERRED LOCATION FOR INSTALLATION	Can be a garden, area adjacent to garden, car park, preferably with a connection the drainage.		
WARRANTY	1 year with manufacturer's warranty. Extended warranty also with AMC.		
LIFE OF THE MACHINE	Expected around 25 years.		



Per day waste processing capacity: Upto 1250kgs

Greeneria

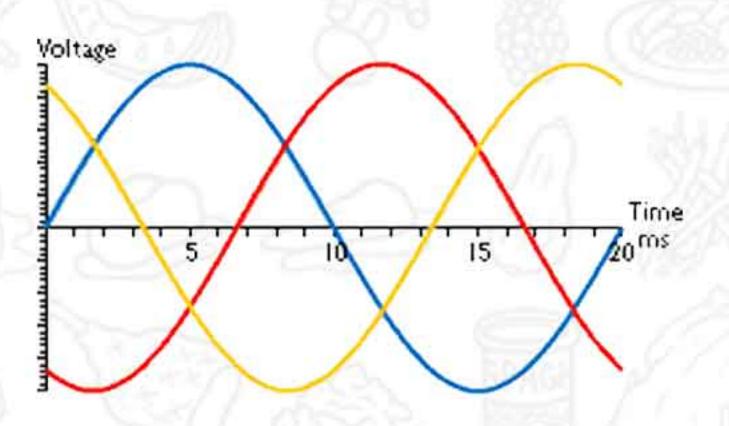


Dimension: 10.9 x 4.8 x 6.5 ft

Approx.



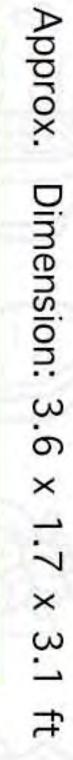
Per day waste processing capacity: Upto 250kgs



Three Phase Power Supply

product range







Approx. Dimension: 5.7 x 2.4 x 3.8 ft

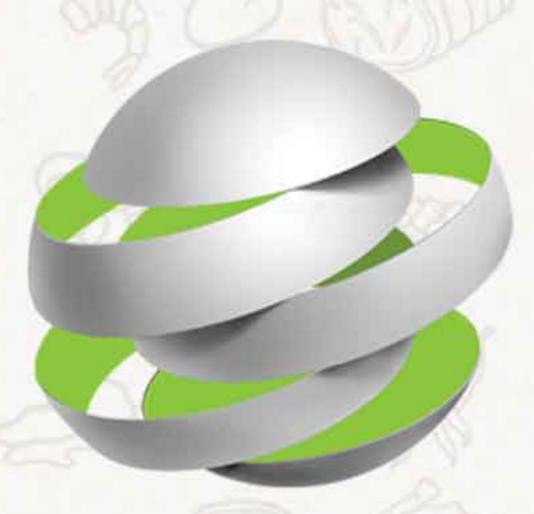


Approx. Dimension: 6.1 x 2.9 x 4.2 ft

Customization option available after due diligence and discussion. Please get in touch with us for more details on the same.

WASTE MANAGEMENT DECENTRALIZED & DEMYSTIFIED

India's most advanced automatic organic waste composting machine.



Aruna Green Ventures Pvt Ltd.

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Aruna Green Ventures Pvt Ltd.,

#581 30th Main, Survey 17 Kathriguppe, Banashankari 3rd Stage, Bangalore - 560 085.

Contact: Mr. S. R. Kumar Mobile: 91-88619 21167 / 88610 75555

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GREENE	ERIA COMMERCIAL QUOTE FOR G75,G125 & G250			
Model	G75			
	To process upto 75 kgs of organic waste per day			
Unit Price	Rs. 6,50,000.00 (Six Lakhs and Fifty Thousand Only)			
Discounted Price	Rs. 5,85,000.00 (Five Lakhs and Eighty Five Thousand Only)			
	Lifespan of our machine is 25-30 years			
Model	G125			
	To process upto 125 kgs of organic waste per day			
Unit Price	Rs. 9,50,000.00 (Nine Lakhs and Fifty Thousand Only)			
Discounted Price	Rs. 8,55,000.00 (Eight Lakhs and Fifty Five Thousand Only)			
	Lifespan of our machine is 25-30 years			
Model	G250			
	To process upto 250 kgs of organic waste per day			
Unit Price	Rs. 12,50,000.00 (Twelve Lakhs and Fifty Thousand Only)			
Discounted Price	Rs. 11,25,000.00 (Eleven Lakhs and Twenty Five Thousand Only)			
	Lifespan of our machine is 25-30 years			
Taxes/ Exclusions	VAT @ 5.5 Applicable			
	50% advance			
Terms of Payment	40% on delivery			
	10% on commission and installation			
Delivery	2 weeks from the date of Purchase Order (durantion can be shortened)			
Warranty	1 year from the date of Delivery.			
Validity of Offer	30 days from the date of this quotation			
Others	Cheques/ Payment/ Purchase Order should be in the name of			
Others	Aruna Groon Ventures But Itd. navable in Pangalere			

We trust, you find the above in order & look forward for your valuable order.

Aruna Green Ventures Pvt. Ltd. payable in Bangalore.

Thanking you and assuring you of best services.

Sincerely, S.R.Kumar Director 91-88619 21167