

**Hi-tech Magic Box**  
Bio waste Converter



# The Magic Box



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## **ZERO FOOD WASTE TO LANDFILL PROTECT OUR ENVIRONMENT**



Organic food waste, including scraps, is the single largest component of municipal solid waste entering landfills. Reducing food waste saves water, energy, labor and land and cuts methane – a greenhouse gas– produced by rotting food in landfills, the EPA says.



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## **Bio waste Converter**



## **Principle of AEROBIC DIGESTION**

**Use of micro-organisms with oxygen,  
A safe internationally recognized quick, efficient and  
preferred method organic food waste is  
converted into grey water**

**Grey Water is discharged directly into the sewer system  
or can also be used for irrigation.**

**More than 700 machines are sold worldwide  
up to date to USA,UK, Europe, Japan, China and Korea.**

## **Distinguishing Features**

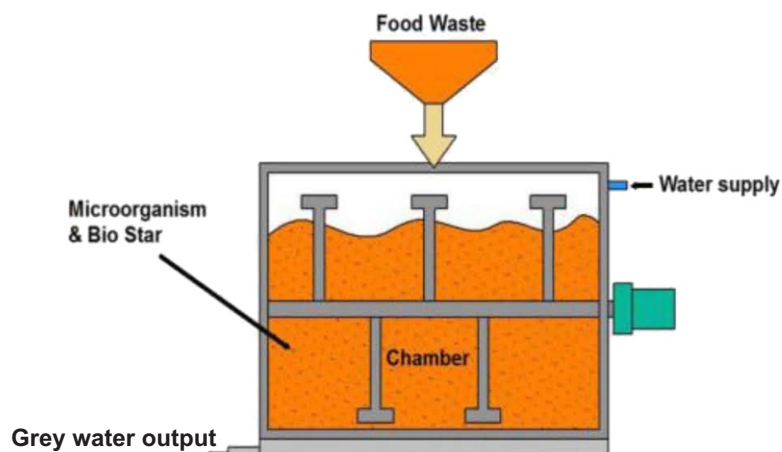
- **All stainless steel construction**
- **Quiet, clean, odour free and easy to operate**
- **Automated program operation with inverter motor control**  
**Minimizes running costs and power consumptions**
- **Designed life for 10 to 15 years**
- **Micro-organisms last up to 3 months of normal operations**
- **Many models to choose from, ranging from 10 kg to 10,000 kg per day capacity**
- **Technical and operational experiences of over 10 years in making these  
machines successfully for tough and demanding markets  
of USA, Japan, Korea and Europe.**

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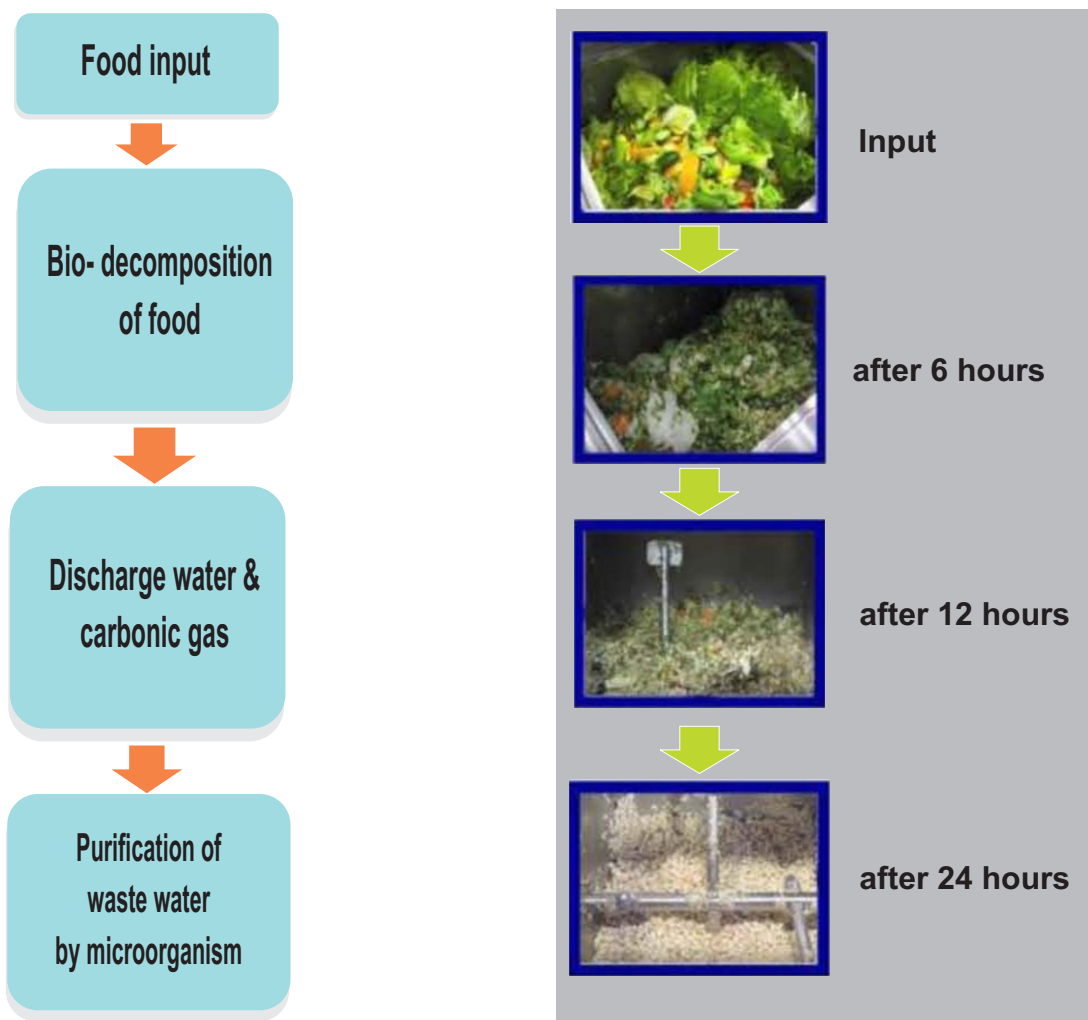
## Bio waste Converter



### THE MACHINE PROCESS



### Procedure for the decomposition





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- **Food Waste is put into the Inlet Door.**
- **Micro-Organism is Added into the Machine**
- **Mixed and Fermented in the Mixer Chamber,  
the Food Waste is Decomposed by the Special Blend  
of Micro-organisms Aided by Special Blend of Enzymes.**
- **The Bio Star Special Plastic Medium in the Mixer Chamber  
Forms the Housing for the Micro-Organisms.**
- **After 24 hours, all the Organic Materials are Decomposed  
resulting into Grey Water.**
- **Food Waste can be Added into the Machine Continuously as the  
Machine is not a Batch Process**

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### Descriptive Process Flow

#### STEP 1:

Organic waste is generated by end-users in different areas



#### STEP 2:

Organic waste is emptied into the waste converter and left for processing



#### STEP 3:

Organic waste is converted to grey-water can be re-used elsewhere.

**Effectively 100% waste conversion!**

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**Food Waste form 45-50% of  
our Solid Waste Thrown Everyday.  
All of this Food Waste is carted and thrown  
In the many landfills around the country**

Model	Capacity in kgs	Width in mm	Depth in mm	Height in mm
EX-10	10	522	400	625
EX-20	20	562	470	711
EX-30	30	643	511	763
EX-50	50	894	658	1012
EX-100	100	1176	780	1151



MODEL EX-30: FRONT LOADING IS OPTIONAL

Model	Capacity in kgs	Width in mm	Depth in mm	Height in mm
EX-200	200	1476	870	1261
EX-300	300	1558	990	1453
EX-500	500	1884	1180	1620



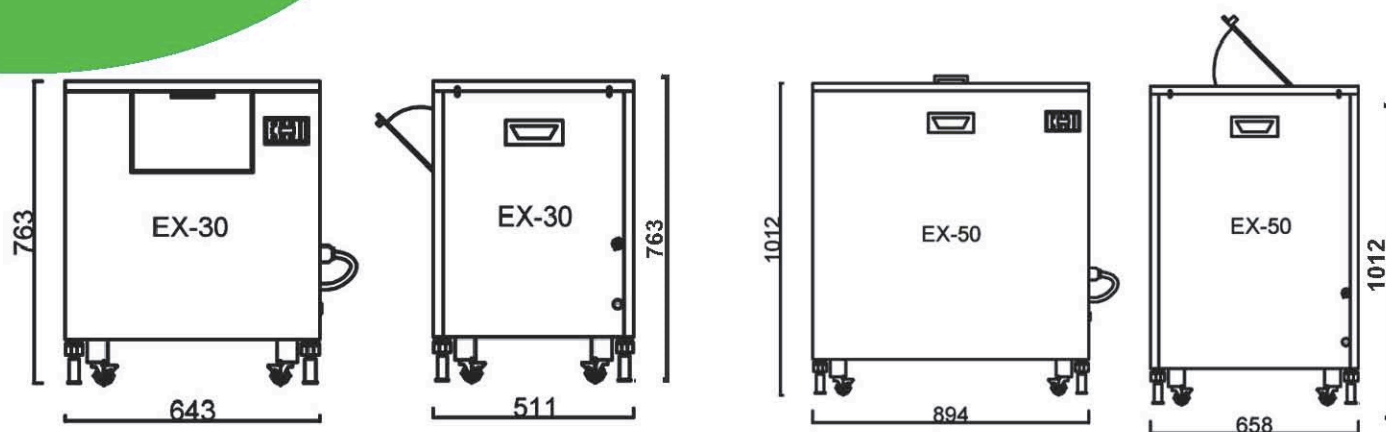
Model	Capacity in kgs	Width in mm	Depth in mm	Height in mm
EX-1000	1000	2600	1561	1912
EX-2000	2000	3310	1730	2125
EX-5000	5000	4530	2519	2781
EX-10000	10000	5920	3450	3326



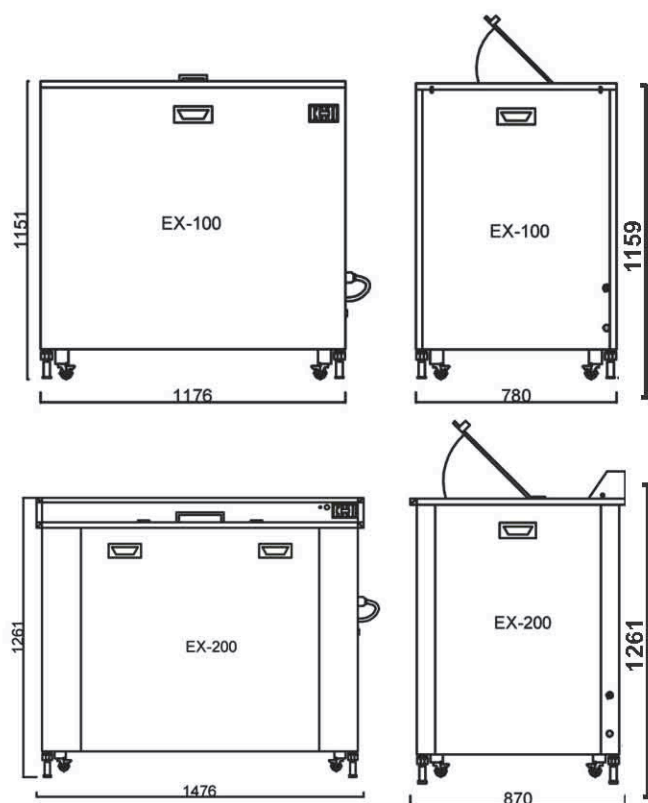


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Model	Capacity per 24 hours	Electrical Requirements			Hot Water & Drain		Dimensions in MM			Weight in Kgs
		Motor kw / hr	Heater kw / hr	Volt-Hz-Ph	Ltrs / Day	Floor Drain	Width	Depth	Height	
EX-30	30 kgs	0.18	0.15	220/50/1	192	100mm	643	511	763	90
EX-50	50 kgs	0.20	0.20	220/50/1	288	100mm	894	658	1012	160
EX-100	100 kgs	0.75	0.45	220/50/1	360	100mm	1176	780	1151	250
EX-200	200 kgs	0.75	0.60	220/50/1	600	100mm	1476	870	1261	350
EX-300	300 kgs	1.50	0.60	400/50/3	720	100mm	1558	990	1453	480



Grey Water Quality		
<b>BOD</b>	mg/ Ltr	2780
<b>COD</b>	mg/ Ltr	4900
<b>Suspended Solids</b>	mg/ Ltr	1400