ECOPRESS FOOD WASTE REDUCERS

Model FWM 2000

Food Waste Compost Machine converts the organic waste added to the machine into nitrogen-rich compost by reducing its volume by almost 90% of the original. Organic waste includes kitchen waste or anything that comes from plants or animals and is bio-degradable.

An ideal solution for commercial-scale enterprises that generate a vast amount of organic waste, the fully automatic waste-to-compost machine by ECOPRESS is the perfect solution for hotels, hospitals, and other organizations. It is extremely simple to use and automates the process to a large extent, making it simpler for you to access qualitative compost while simplifying your waste management processes.

Our 24hr food waste composting machines are custom designed to convert all organic waste into compost (organic fertilizer) within 24Hrs. The machine can compost all organic waste including kitchen food waste, fish and animal waste, leaves, grass clippings, weeds, seeds, shredded meat bones, and palm fronds, etc.

The resulting compost is rich in plant nutrients, both macro and micronutrients, with more than 80% organic matter content, thus when applied into the soil it increases agricultural crop production, enhances the soil water holding capacity and the soil microbial biodiversity that has an overall impact on the soil health.

The 24hr composting machine helps mitigate climate change as the composting process is aerobic thus eliminating the production of methane that is aggravating climate change. ECOPRESS helps you manage your waste in an efficient, economical, and eco-friendly manner with a complete organic waste management solution designed today, for a greener tomorrow.

Product advantages

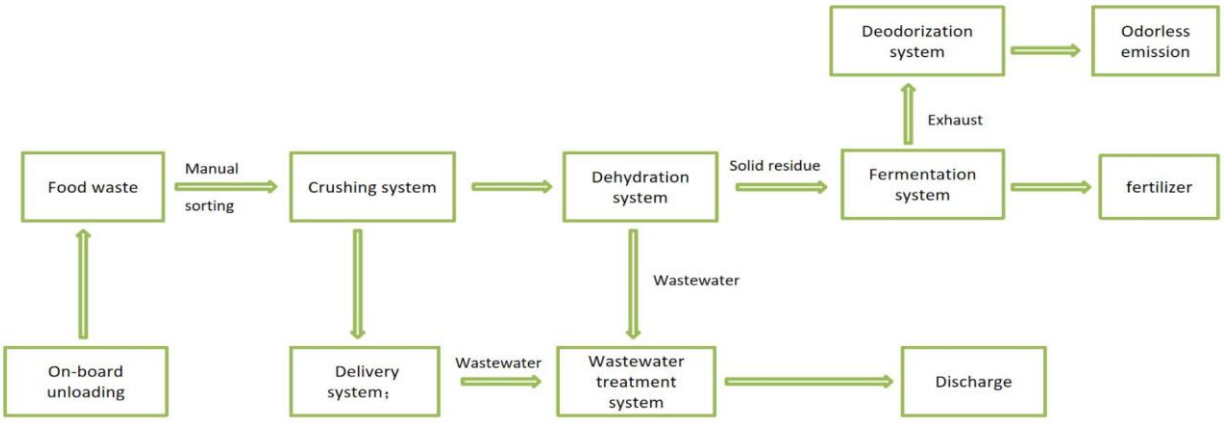
1. The whole equipment adopts unique stainless steel and baking paint, beautiful appearance, compact structure, small floor area and long service life.
2. Simple operation, fully automatic operation, without manual sorting;
3. Less investment, low operation cost and small floor space;
4. During the operation of the equipment, there is no odor emission, no sewage discharge, no secondary pollution, completely harmless and resource utilization.
5. The equipment adopts self-developed PLC touch intelligent control and on-line monitoring system, with Schneider as the main components and Schneider as the LCD screen, and the operation interface is clear and simple.
6. Reduce kitchen and kitchen waste by 85-90%

Ecopress Waste Systems OÜ
www.ecopress.ee
Osmussaare tee 8
11415 Tallinn
Estonia
Tel: +372 3929393
info@ecopress.ee

Product introduction

The basic principle of microbial treatment of organic waste is to use microbial strains to produce a variety of enzymes, which can rapidly decompose organic waste (such as vegetables, vegetable leaves, vegetable roots, etc.). After treatment, the reduction rate of kitchen waste is 85-90%. After setting the operation parameters, it can run automatically for 24 hours. During the operation of the equipment, the waste gas reaches the standard and no sewage is discharged. The remaining10-15% of the solid emissions can also be used as the base fertilizer of organic fertilizer for fruit and vegetable cultivation. The whole treatment process is pollution-free and there is no secondary pollution. It is in line with the principle of "reduction, harmlessness and resource utilization" of garbage treatment

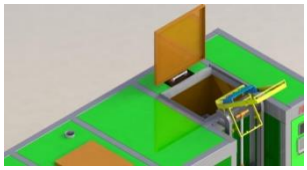
Equipment Process Route



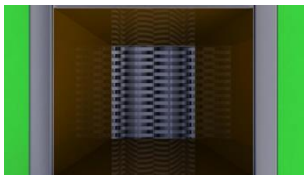
Integrated automation equipment includes: feeding protection door system, hydraulic lifting system, crushing system, spiral drainage conveying system, fermentation bin system, deodorization system.

Feeding protection door system: powered by the hydraulic system, the lifting system will not work when the door is not opened, and has a self-locking protection system.

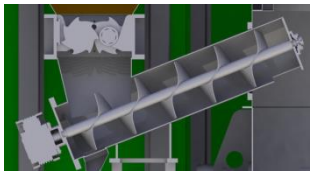
Hydraulic lifting system: powered by hydraulic system, it can lift 80L-120L standard garbage can, with fixed garbage can components, adjustable lifting speed, and maximum lifting weight of 300kg.



Crushing system: the crusher with high hardness and corrosion resistance is adopted, which can tear up the poultry bones commonly found in general food waste, and has overload protection function.



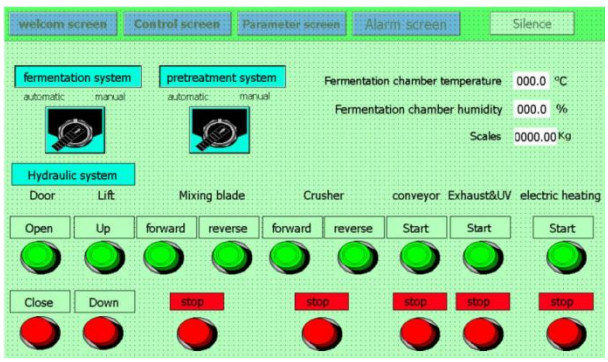
Spiral drainage transportation system: the whole system is made of AISI304 equipped with drainage outlet, which has a large material transportation capacity



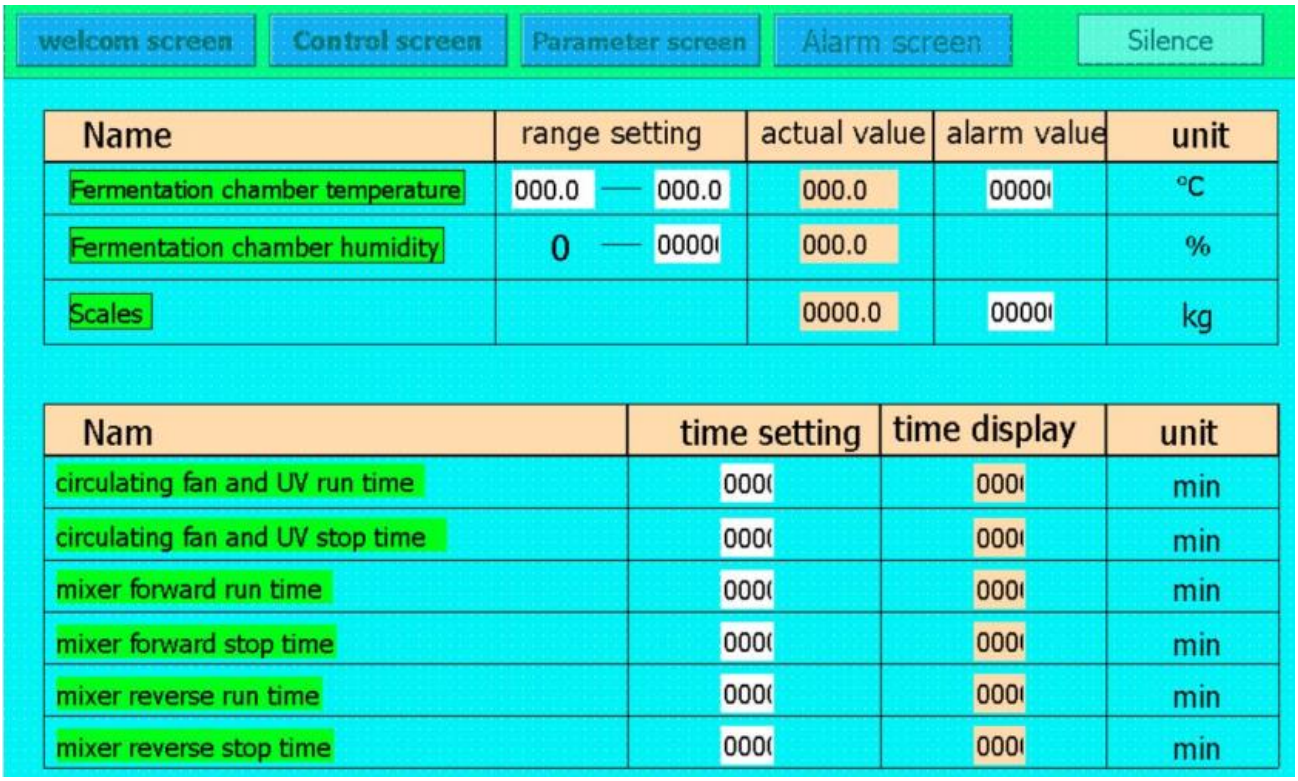
Fermentation bin system: this system is the core part of the equipment, including mixing equipment, ventilation equipment, and heating equipment. All parts in contact with materials are made of AISI304 material.

Deodorization system: SUS304 body is adopted, and the system is equipped with UV photo degrader and plate activated carbon adsorption block. It has physical and chemical two-way deodorization, and the exhaust gas has no unpleasant odor. Deodorization system: atomizing spray tower is adopted, and the system is equipped with herbal deodorant dedicated to kitchen processing equipment, so that the exhaust gas is free of odor and odor.

Automatic control system of equipment: The system adopts Siemens plc control system and is equipped with Siemens wonderful control screen of 7 "or 10". All operations of the equipment can complete all functions only on the screen. The fermentation temperature can be set in the operating system, the ventilation air volume can be set in the operating system, and the fermentation working time and stop time can be set in the operating system. After setting, the system will work circularly according to the set fermentation working time and stop time.



Ecopress Waste Systems OÜ
www.ecopress.ee
Osmussaare tee 6
11415 Tallinn
Estonia
Tel. +372 5929595
info@ecopress.ee



About some configuration information:

PLC: Siemens

Temperature sensor: platinum thermistor

Conductivity sensor: resistance integrated

Ph acid-base sensor: resistance integrated

Instrument: all required data will be integrated on the screen of plc

TECHNICAL INFORMATION:

（1）	Model		FWM-2000
（2）	Daily capacity （ kg/d）		2000
（3）	Processing period （ h）		24h
（4）	Handing method：		Microbial Fermentation and Hot Air Drying
（5）	Measure： Length*Width*Height （ mm）		5500*1850*1930 (W*D*H)
（6）	Coverage of equipment （ m2）		6
（7）	Decrement rate （ %）		90%
（8）	Weight （ kg）		5000
（9）	Service life （ h）		100000
（10）	Noise dB		65
（11）	Fermentation temperature （ ℃ ）		45-75
（12）	Power （ Kw)：	Solid-liquid separator （Kw）	3
Conveyor （ Kw）		2.25	
Stirring motor （ Kw）		10	
Crusher motor （ Kw）		3	
Hot air blower （ Kw）		0.45	
Electric heating （ Kw）		4	
Other		3.4	
Power Supply		3 phases and 4 lines 380V 50Hz	
Max Power （ h）		4kw	
Average Power(d)		30-35kw	
（13）Materials Contact with kitchen waste		AISI304	
Materials contact with liquid		AISI304	
Appearance		AISI304 + powder paint	

Ecopress Waste Systems OÜ
www.ecopress.ee

Osmussaare tee 8
11415 Tallinn
Estonia

Tel: +372 3929393
info@ecopress.ee