

# HUNGRY GIANT<sup>®</sup>

## RECYCLING SYSTEMS



Turbo-charge your recycling with the world's fastest organic waste dehydrating system.



**HUNGRY GIANT**  
RECYCLING INC.



Many "Green" conscious companies are installing on-site food waste recycling solutions to achieve their sustainability goals.

There's never been a better time to invest in on-site waste management infrastructure, as ever increasing waste costs and reductions in CO2 emissions bolster change at the procurement level.

But how do you decide on the best application for your business?



## Meet the Hungry Giant

### The world's fastest food waste dehydrator.

A global leader in commercially ready waste and recycling equipment, Hungry Giant Recycling Inc., now established in the U.S.A., delivers cutting edge, state of the art, waste and recycling technology, primed for "at source" application.

The Hungry Giant Food Waste Dry Dehydration system (FWDD), turbo-charges the food waste decomposition process through accelerated dehydration and agitation, reducing the original waste volume by between 80 and 93%.

User friendly and environmentally efficient, the FWDD is designed with safety and operational functionality in mind. Unlike other machines in the marketplace, the Hungry Giant FWDD unit does not require additives such as microbes, enzymes or fresh water and, whilst operating at safe temperatures, it eliminates pathogens and potential biohazards without the emissions normally associated with this process.

Capable of 2 cycles every 24hrs, the Hungry Giant FWDD series is available in 6 different sizes, suitable for any application.

Features include:

Programmable Logic Controllers (PLCs); an intuitive power saving mode, which saves electricity during and after each cycle. Additional safety features include: anti jamming sensors, single button, Start, Stop and Discharge functionality, overload sensors and integrated, factory fitted bin lifters, fully automated, so no more lifting heavy bins physically.

The Hungry Giant FWDD's clients are some of the most reputable both domestically and internationally. With such advocates as the US Navy, Hilton Hotels, various Universities and theatres such as IMAX, (the world's largest), and some of the largest shopping malls globally, the FWDD system has proven time and time again to deliver outstanding results. And with distributors throughout Australia, S.E. Asia, Europe and the Middle East, the benchmark in best practice food waste systems is now available in the United States of America.

# How does Hungry Giant compare to other organics solutions?

The cost of the solution is fixed, giving you control of your organic waste disposal costs at a time when many landfills are charging premium tipping rates and the procurement of other composting machines does not present a feasible return on investment.

Benefit from reductions in net GHG and waste transport costs overall.

Significantly increase diversion from landfill and avoid harmful methane emissions.

Dried remnants are biologically stabilized resulting in zero fermentation or pathogen risks. And with less than 10% residual material, reclassified as a soil amendment, many clients make arrangements with local farmers and agricultural centers that are more than happy to collect the material and put it back to pasture, closing the loop on food waste.

# F.A.Q.

## How long does it take?

The dehydration process takes from 7 up to a maximum of 24 hours depending on machine size and waste composition. The machine stops automatically when its sensor detects the waste has reached 4~6% moisture content.

## What can't go into the machine?

Plastics, metals, medicines, large meat or rib bones, large seafood shells and crustaceans, all of which act as contaminants and may damage the machine.

## What about green waste?

Most green waste is acceptable except large wood cuttings and treated timber. Flowers and other soft plant matter are particularly efficient at reducing in volume.

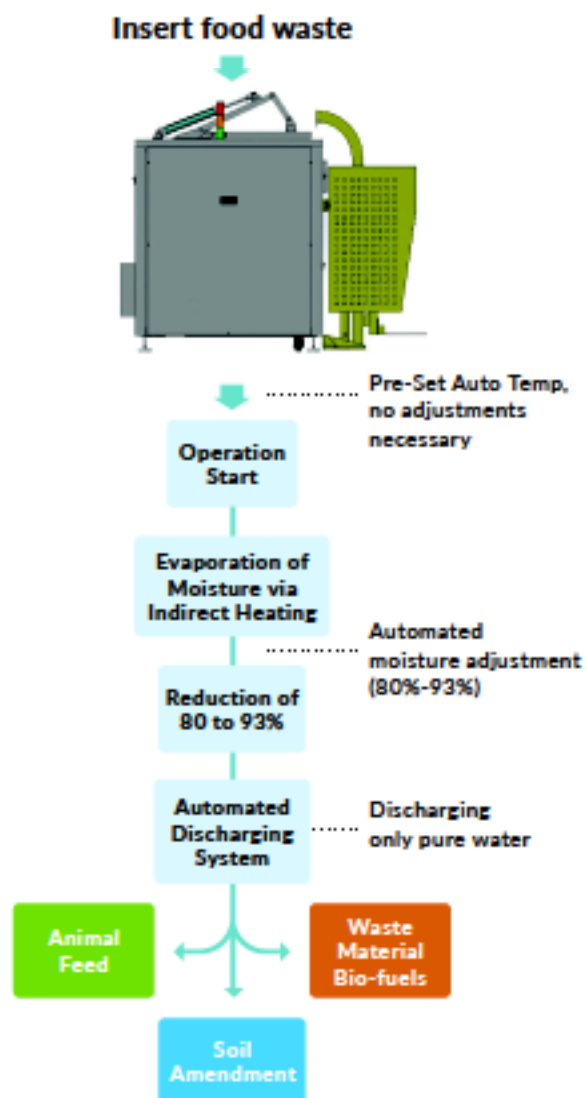
## What about contamination such as plastics?

The machine operates at 183.2°F/84°C so it doesn't melt plastics. Some contamination is acceptable, but discouraged as it can add to maintenance costs and time to clean out the machine especially if plastics get wrapped around the impeller.

## What do we do with the dried leftovers?

Depending on location, many golf courses use the sterile output mixed with chemical fertilizer saving purchases of organics. If mixed with the soil 10:1 it can be a good soil amendment or it can be placed into general waste (at 90% reduced volume).

# What does the machine do?



- Converts and reduces food waste by 80-93% into sterile biomass soil amendment.
- Processes all organics including meats, fish, fruit, vegetables and paper and paper napkins up to 20% of the load.
- Machine separates the moisture content by indirect heating and converts to steam.
- Steam is then condensed and discharged into trade waste or sewer as distillate (100% sterile condensate No BOD, No TSS).
- The dried remnants are discharged free of bacteria and pathogens.
- The remaining soil amendment can be collected and diverted from landfill throughout metropolitan, regional and remote areas.

# Hungry Giant Specifications

## NEW HUNGRY GIANT MODEL SPECIFICATIONS (as of 10/02/2015)

NEW MODEL NOMENCLATURE	HGF160/ML	HGF320/ML	HGF700/ML	HGF700AL	HGF900/ML	HGF900/AL	HGF1400/AL	HGF2400/AL
Cycle Times Full Load	1 Cycle 55kg/121lbs 6-11hrs 2 Cycles 110kg/242lbs 14-18hrs	1 Cycle 145kg/320lbs 14-19hrs	1 Cycle 318kg/700lbs 15-19-hrs	1 Cycle 318kg/700lbs 15-19-hrs	1 Cycle 410kg/900lbs 17-22hrs	1 Cycle 410kg/900lbs 17-22hrs	1 Cycle 636kg/1400lbs 18-23hrs	1 Cycle 1090kg/2400lbs 18-23hrs

NOTE! CYCLE TIMES WILL VARY FROM LOAD TO LOAD DEPENDING ON THE MOISTURE CONTENT OF THE FOOD WASTE

### MACHINE SPECIFICATIONS

Depth	1004mm/39in.	1204mm/47in.	1300mm/51in	1300mm/51in	1500mm/59in	1500mm/59in	1620mm/63in	1800mm/70in
Length/Width	1104mm/43in	1304mm/51in	1500mm/59in	1830mm/72in	1900mm/74in	2230mm/88in	2367mm/93in	2630mm/103in
Height	1000mm/39in	1200mm/47in	1280mm/50in	1650mm/65in*	1600mm/63in	1970mm/77in*	2313mm/91in	2570mm/101in*

NOTE! \* Height measurements of machines W/Auto Lift is approximate depending on tote size/capacity when tote is lifted.

Weight/Volume Reduction	80%-90% NOTE! Weight capacity is subject to variations in organic waste content. Time Cycles will vary from load to load depending on the moisture content of the food waste. The dehydration process may produce 11-12lbs of sterile soil amendment per 100lbs waste (approx.).							
Electricity	220V/380V/440V, 50/6-Hz, 1Phase/3Phase							
Power Usage*	3.2kw/hour	4.72kw/hour	6.86kw/hour	6.86kw/hour	11.9kw/hour	11.9kw/hour	16.58kw/hour	16.58kw/hour
Power Rated * (220V)	4.7kw/8.47Amp	8.1kw/10.9Amp	15.5kw/15.52Amp	16.9kw/15.52Amp	20.1kw/27.61Amp	21.6kw/27.61Amp	27.8kw/38.47Amp	27.8kw/38.47Amp
Amp* (220V)	12.30Amp	21.20Amp	40.42Amp	44.41Amp	52.68Amp	55.04Amp	73.00Amp	73.00Amp
Av. Amp* (70%) during operation	8.6Amp	14.8Amp	28.29Amp	31.10Amp	36.87Amp	38.60Amp	51.10Amp	51.10Amp
Ship Weight kg	400kg	550kg	790kg	1050kg	1100kg	1300kg	1800kg	2000kg
Ship Weight lbs	880lbs	1210lbs	1740lbs	2310lbs	2425lbs	2860lbs	4000lbs	4410lbs

\*The calculations above may differ depending on local electricity.

### AMPERE CALCULATIONS - 220V

NEW Model	HGF160/ML	HGF320/ML	HGF700/ML	HGF700AL	HGF900/ML	HGF900/AL	HGF1400/AL	HGF2400/AL
Oil Heater	1500 Watt x 2	3,000 Watt x 2	3,000 Watt x 4	3,000 Watt x 4	3,000 Watt x 4	3,000 Watt x 4	3,000 Watt x 6	3,000 Watt x 8
Motor	400	750	1,500	1,500	2,200	2,200	3,500	4,900
Air Heater	1000	1,000	1,500	1,500	2,700 x 2	2,700 x 2	2,700 x 2	2,700 x 2
Condenser	15 x 2	66	66 x 2	66 x 2	66 x 2	66 x 2	66 x 4	66 x 4
Blower	30	30	50	50	50 x 2	50 x 2	50 x 4	50 x 4
Pump	8	110 x 2	110 x 2	110 x 2	110 x 2	110 x 2	110 x 4	110 x 4
Auto Lift	X	X	X	1,500	X	1,500	1,500	1,500
Total Watt (Sum of each components)	4,680 Watt	8,066 Watt	15,402 Watt	16,902 Watt	20,052 Watt	21,552 Watt	27,784 Watt	35,184 Watt
Max. Amp Usage- Total Watt /220v/1.73	12.3 amp	21.2 amp	40.42 amp	44.41 amp	52.68 amp	55.04 amp	73.00 amp	92.45 amp
Av. Amp (70%) during operation	8.6 amp	14.8 amp	28.29 amp	31.10 amp	36.87 amp	38.60 amp	51.10 amp	64.70 amp

## Hungry Giant Features & Benefits

FEATURES	BENEFITS
Programmable Logic Controller (PLC)	Digital Process Control System and Monitor
Motor Overload Sensor	Eliminates jamming
Moisture Sensor (Instead of Timer Operation)	Saves electricity and shuts down when dry
Paddle Shaft with Dull Blades	Macerates bulk foods and large produce
Proprietary Cooling System	Fastest processing of any dehydrator in the marketplace
Automatic Open & Close Hatch	Opens to accept waste and closes afterwards
Automatic Bin/Tote Lifter	Hands free safe loading of food waste
Bin/Tote Counter	No overloading of the machine
Simple One-Button Start/Stop/Load/Unload	User friendly with simple to understand instructions
Stainless Steel Body	Easy to clean and maintain
Air Tight Sealing	No leakage
Quiet Operation	Avoid noise pollution
Unique Heating System, No Venting	No surface is too hot to touch
Output (Sterile Biomass and Condensate)	No pathogens, no BOD and no TSS
Enclosed Lifting Mechanisms	Machine safety cage keeps workers safe from moving parts
Discharge Safety Lock	Automatic shut off when discharge chutes are opened
Emergency Shut-off Button	Accessible to all users

## Distributors

### MALAYSIA

SELECTA SPEKTRA SDN. BHD.  
13C Persiaran Greentown 4,  
Greentown Business Center, 30450  
Ipoh, Perak, Malaysia  
Tel: 05 2536 331 (Hunting line)  
Fax: 05 2539 332

### MEXICO

Soluciones JSL S.A. de C.V.  
Viveros de Asis 293  
Viveros de la Loma  
Tlalnepantla Estado, de Mexico 54080  
Tel: 55 5365 1070

### DUBAI

Middle East Distributor  
Mr. Elias Nardini  
Ecco Solutions UAE  
AFZA Tower  
Sheikh Khalifa Bin Zayed Street  
Ajman - United Arab Emirates  
www.eccosolutionsuae.com info@eccosolutionsuae.com  
Tel. +971-50-996-2339