



ECOKHAYA EK-SERIES™

Commercial Food Waste Treatment Systems

Transform food waste into a resource.

50 - 1000 KG / DAY

An all-in-one, fully automated system that shreds, dewateres, separates and ferments food waste on site — reducing volume by up to 90% and converting it into a usable pre-compost, without it ever leaving your property in a truck.

ALL-IN-ONE, ON SITE

How The EK-Series Works

- 01 One Integrated System**

Shredding, dewatering, oil-water separation and aerobic fermentation are combined into a single compact unit, designed for restaurants, hotels, commercial kitchens, canteens, supermarkets and food processing facilities.
- 02 Shredding**

A high-efficiency shredding system breaks food waste down into smaller particles, improving treatment efficiency and keeping the whole cycle stable.
- 03 Dewatering**

An integrated squeezing and dewatering stage removes excess moisture, cutting waste weight and volume and improving fermentation conditions downstream.
- 04 Oil-Water Separation**

Where waste contains grease, organic solids are separated from wastewater and oil, protecting drainage and reducing wastewater pollution.
- 05 Aerobic Fermentation**

Dewatered material enters the fermentation chamber, where controlled temperature, oxygen supply and microbial activity accelerate decomposition.
- 06 Odour Control**

A multi-stage deodorisation system manages odour throughout the cycle, keeping the unit suitable for occupied commercial environments.
- 07 Output**

Waste exits as a stable pre-compost / soil improver — ready for further use on site or collection, over a 20–24 hour automatic cycle.

TYPICAL APPLICATIONS

Councils

Hotels & Resorts

Restaurants & Catering

Commercial Kitchens

Universities & Schools

Hospitals

Food Processing Plants

Airports & Public Facilities

KEY ADVANTAGES

Why Choose The EK-Series?



Integrated & Automatic Operation

Shredding, dewatering, separation and fermentation all run inside one machine, cutting installation complexity and simplifying day-to-day operation.



High Waste Reduction Efficiency

Achieves approximately 80–90% volume reduction, significantly cutting collection frequency, transport cost and landfill dependency.



Intelligent Control System

PLC + HMI control handles automatic operation and process monitoring, so performance stays consistent without constant supervision.



Environmentally Friendly Output

Converts food waste into a usable pre-compost / soil improver, supporting circular economy outcomes in place of landfill disposal.



Compact, Space-Saving Design

A footprint suited to decentralised, on-site treatment wherever installation area is limited – from a single café to a council transfer station.



Commercial-Grade Construction

Built in SUS304 stainless steel to handle continuous commercial duty, backed by Australian warranty and local parts support.

THE FULL LINE-UP

EK-Series™ Range

MODEL	CAPACITY	POWER	DIMENSIONS (L×W×H)	WEIGHT
EK-50 Compact EK-Series™	50 kg/day	7.5 kW	1510×810×1070 mm	0.45 t
EK-100 Essential EK-Series™	100 kg/day	13 kW	2110×1180×1370 mm	0.5 t
EK-200 Professional EK-Series™	200 kg/day	17 kW	2110×1280×1470 mm	0.7 t
EK-300 Commercial EK-Series™	300 kg/day	20 kW	2110×1380×1570 mm	0.8 t
EK-500 Enterprise EK-Series™	500 kg/day	24 kW	3400×1600×2200 mm	3.2 t
EK-1000 Industrial EK-Series™	1,000 kg/day	32 kW	4200×1600×2200 mm	3.6 t

All EK-Series units run on 400V / 3-Phase / 50Hz power. Dimensions and weight shown are for the base unit, excluding odour control system where fitted separately.

80–90%

VOLUME REDUCTION

20–24 HR

PROCESSING CYCLE

SUS304

STAINLESS STEEL

400V/3Φ

50HZ POWER SUPPLY



WHERE IT FITS, WHAT IT DELIVERS

Applications, Benefits & Services

TYPICAL APPLICATIONS

-  Councils & Waste Transfer
-  Hotels & Resorts
-  Restaurants & Catering
-  Commercial Kitchens
-  Universities & Schools
-  Hospitals & Aged Care
-  Supermarkets
-  Shopping Centres
-  Mining Camps
-  Airports & Public Facilities

BENEFITS

-  Reduce landfill
-  Reduce disposal costs
-  Improve ESG reporting
-  Reduce greenhouse gas emissions
-  Support circular economy
-  Improve workplace hygiene
-  Lower transport costs
-  Produce reusable compost

ECOKHAYA SERVICES

-  Waste Assessments
-  Bin Audits
-  FOGO Starter Kits
-  Education Programs
-  Installation
-  Staff Training
-  Preventive Maintenance
-  Technical Support
-  Consumables
-  Annual Servicing

THE ECOKHAYA DIFFERENCE

Why EcoKhaya?



Australian support



Australian warranty



Local installation



Local spare parts



Training & consulting



Pilot programs



Council experience



National reach

GET IN TOUCH

EXCLUSIVE AUSTRALIAN
DISTRIBUTOR

Talk To Us

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EcoKhaya is the exclusive Australian distributor for the EK-Series™, supplying, installing and supporting integrated food waste treatment systems for councils, hospitality, healthcare, education and industry nationwide.