



WATER



GAS



ENVIRONMENT



PEST CONTROL

## PRODUCT DATA SHEET: FOOD WASTE BIO-DIGESTERS

# WASTE<sub>2</sub>O

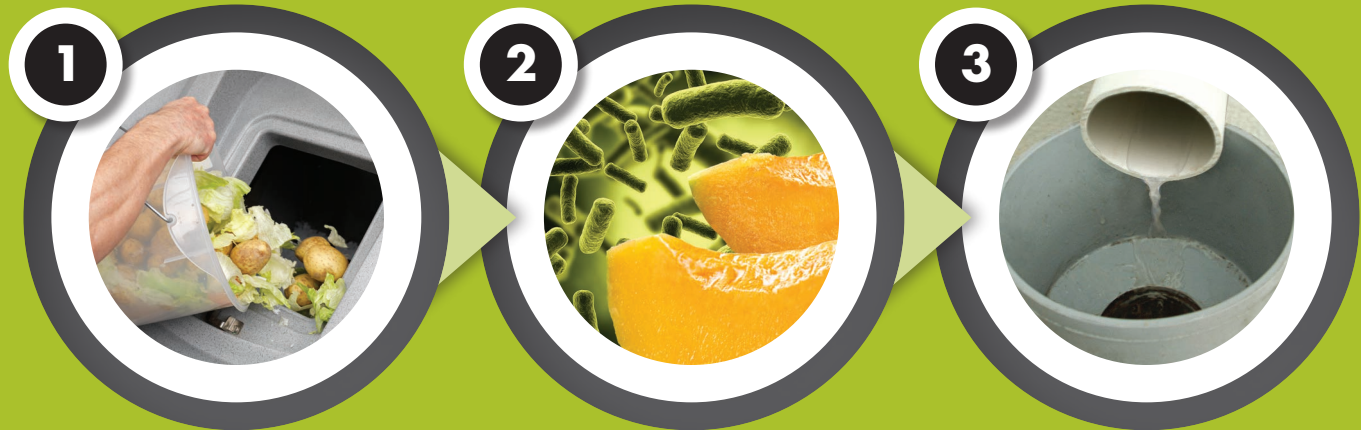
## Food Waste Bio-Digester

The Waste<sub>2</sub>O food waste bio-digester digests up to 180 Kg of food waste to water over a 24-hour period. It's an operationally friendly, low carbon footprint, on-site, affordable food waste management system that is sustainable, environmentally responsible and commercially viable.



DIGESTS UP TO 180KG OF WASTE IN 24HRS

### HOW IT WORKS...



1



Food waste is added to the chamber through the hatch.

2



Microorganisms digest food waste while starting the breakdown of fats, oils & grease (FOGs).

3



All soft food is digested. Waste water is the only output, no solids to manage.

### THE BENEFITS...

#### Just add food waste and let it do the rest

Aerobic microbial activity converts all soft food waste into waste water that is safely sent straight to the drain, using existing services-- saving you the hassle of dealing with solid food waste. No need to store food waste, reduces odour and vermin problems and reduces what goes to landfill.

- No solids to manage
- Easy, on-site food waste solution
- Food waste digested to waste water

#### Sustainable & affordable food waste solution

Less food waste to transport takes trucks off the road and improves an operation's overall carbon footprint. Fewer collections save money and are better for the environment. Improved waste stream management leads to better return on recyclables.

- Less food waste to landfill
- Fewer trucks on the road
- Labour & money saving

#### Environmentally responsible & earth friendly

Waste<sub>2</sub>O™ reclaims the water inherent to food waste (approximately 70% of food waste is water), safely returning it to water treatment plants--meaning water is not lost to landfill or incineration. The optional Volume Sensor gives operations an effective management tool to track and monitor food usage to prevent and reduce food waste.

- Water from food waste totally reclaimed
- Better waste stream separation & recycling, plus effective food waste management
- Environmentally-sound solution



MODEL: **W20.180.2**



WRAS-approved  
air-break tank



**Model:** W20.180.2 - Mechline's Waste2O food waste bio-digester  
**Manufacturer:** Mechline Developments Limited

**PURPOSE**

Mechline's bio-digester is designed to be a sustainable, on-site, compact food waste solution that can be installed in the kitchen dishwash area or area convenient to kitchen operations. It digests up to 180 Kg of soft, organic food waste to waste water in a 24-hour period.

**FEATURES & BENEFITS**

- Digests anything a person can digest
- Produces only waste water, safe for drains, WRc-approved
- Water inherent to food waste is captured and reclaimed by local waste water treatment facilities
- No solid waste to manage
- Compact design, easy to use and operate
- Reduces how much food waste goes to landfill
- Fewer food waste collections reduce your carbon footprint
- Uses safe, naturally-occurring microorganisms, classed as Hazard Group 1, that also start the breakdown of fats, oils, grease (FOGs)

**CONFIGURATION OPTIONS**

- **Volume Sensor** - an optional application to help site operators monitor how much food waste is being put through the machine, prompting good practice in the prevention of further food waste. Sold separately.

**ACCREDITATIONS**

- WRc-approved
- CE-certified
- Incorporates WRAS-approved air break tank, listing number 1209336

**MATERIAL / COLOUR / DESCRIPTION**

Stainless steel external panels. Moulded MDPE, IP-rated, impact resistant top through which food is loaded; service access panels to the front where bio-fluid replacement box is situated. Visual and audible indicators to ensure correct usage.

**WEIGHT**

230 Kg (when empty)

**WATER USAGE & RECOMMENDED PRESSURE**

Recommended pressure	2 to 5 bar at constant 50°C
Maximum water hardness	70mg per litre
Water usage	Approx 600 litres (0.6m <sup>3</sup> ) per 24 hours

**SPECIAL NOTES**

Machine has 4 height adjustable legs, integral drain pump and locking service access panels. Unless otherwise stated, machine is supplied with poly-chips, booster block and first 3-month's (approx.) supply of bio-fluid. On-going supplies are required and are sold separately - see 'on-going machine requirements' below. Unless otherwise stated, delivery is included to a UK mainland address. Installation NOT included

**SITE REQUIREMENTS**

*Note: Further information available in the Operator Manual*

**Low energy & operational requirements:**

- ½-in BSP continuous warm water connection (50°C)
- 1 ½-in drain connection (to main sewer)
- 230V, 50Hz, 10-amp 1-phase power connection (1.7 metre cable and moulded plug supplied)

Specific water, drain and power connections are required for a successful installation. Recommended for installation in a well-ventilated area. Installation is performed by others. Unless otherwise arranged, Mechline will commission the machine and train staff when the machine is planned for its first use.

**Service access clearances: LHS 600mm (24") / RHS 600mm (24") / Rear: 90mm (31/2").**

Optimal performance and machine capacity is dependent on food temperature, schedule of filling and types of food. The resulting waste water (effluent) is safe for drains and sewer systems. Output will vary according to volume and type of food waste added.

**ON-GOING MACHINE REQUIREMENTS**

- **W20.EPAK** - Bio-Fluid Pack Master Box. A highly specialised biological preparation for odour control and breaking down of organic matter. Supplied in master boxes of 3x 5-Litre. Replace approx. every month.
- **W20.BOOST** - Annual Re-Charge Booster Block. A water-soluble block containing microorganisms for digesting soft organic food waste. Supplied as 1x block. Replace approx. 1x per year unless the machine has not been operated for longer than one month, then use a block to re-charge the population of microorganisms.
- Top-up of poly-chips, on occasion as required

**WARRANTY**

One-year manufacturer's warranty for parts and labour. Terms and conditions apply. Optional maintenance packages available, sold separately.

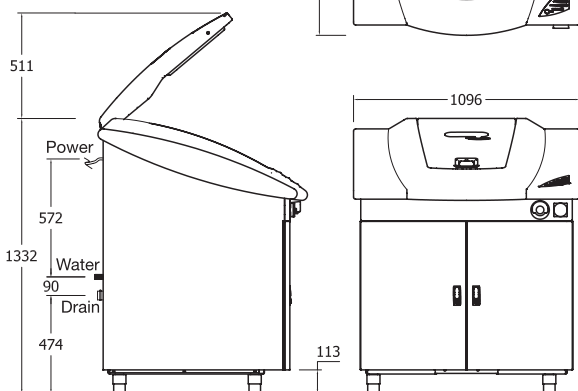
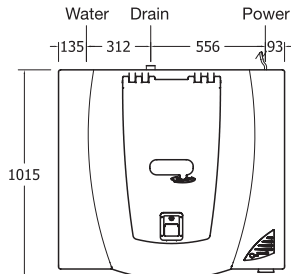
**RECOMMENDED USE**

Ideal for food service operations wanting to efficiently reduce and manage their food waste in an environmentally responsible and sustainable way. Also recommended is the introduction of GreasePak, a highly effective means of maintaining the drain system, avoiding issues associated with blockages caused by fats, oils and greases. GreasePak is complementary to any existing grease traps which may be in place.

**SIMILAR PRODUCTS**

Model: **W20.400, Waste2GO** - for the North American market

**TECHNICAL ASSISTANCE:** Call 0044 (0)1908 261511 and ask for the Technical Helpdesk or e-mail [service@mechline.com](mailto:service@mechline.com)



See 'SITE REQUIREMENTS' for important recommended clearances for service access.

Note: If a CAD file is required please contact our Technical Helpdesk.



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