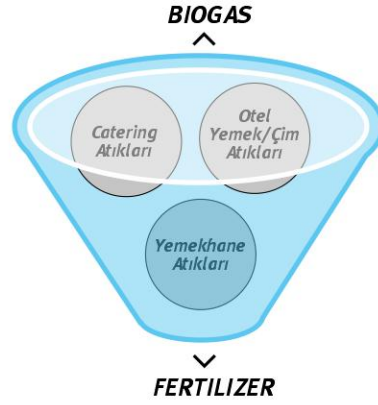
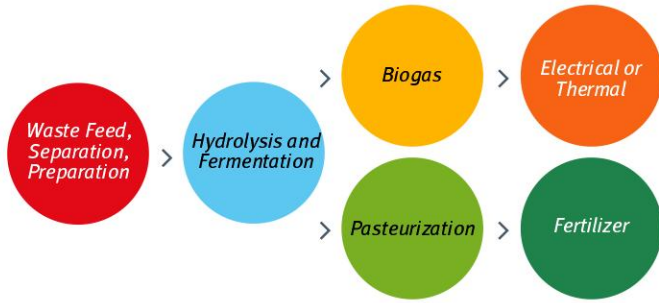


Operation Principle



It depends on the decomposition of the organic matter in anaerobic environment. With the biological process that includes multistep biochemical reactions, the biogas that contains %55-65 methane (CH₄) is produced.



The biogas produced in the digester unit is either burnt in the existing boiler or in CHP unit or in the burner and energy (electrical and thermal or only thermal) is produced.

For Choosing and Using the Correct Device;



Inform Us about:

- Your organic waste load (daily, monthly, annually),
 - The seasonal condition of the organic waste and its annual dispersion,
 - Your waste elimination cost,
 - The planned usage purpose,
 - The installation location,
- so that we can suggest you the most suitable solution with the ARTAŞ expertise that exceeds 30 years of experience.

Optional Applications



1. CHP (micro co-generator) Unit,
2. Surface Protection Material Change,
3. Thermo-isolation for Cold Climates.

armut® Technical Specifications



Width of the Device: ~2.400 mm.

Length of the Device: ~12.000 mm.

Height of the Device: ~3.000 mm.

Operation Weight: ~65 tons

When Armut® is operating with 2 ton/day kitchen waste;

Biogas Quality: ~ %55 CH₄

Electrical and Thermal Equivalent (when burnt in CHP):
~125 kWhe/day and ~303 kWh/day

Thermal Equivalent (when burnt in burner):
~469 kWh/day

In addition, for your demands that require a different capacity, we also offer devices and units with local setup which we design for you!

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armut® by ARTAŞ



armut®
by ARTAŞ

You still throw away your garbage?

The First and Only in Turkey



www.artas.com.tr

Meet the New Generation Waste
Elimination System Armut armut®



**While reducing your waste
elimination cost;**

You can produce ENERGY, HEAT and
hygienic, pasteurized, good quality
liquid FERTILIZER from:

- Restaurant (Food) Wastes,
- Grass,
- Yard Wastes,
- Animal Wastes,
- Greenhouse Wastes,
- All Organic Wastes.

Applications



- Hotels,
- Resorts,
- Cafeterias,
- Catering Companies,
- Farms,
- Greenhouses,
- Golf Courses,
- Camp Sites,
- Construction Sites,
- All Enterprises that produce Organic Waste.

**Superiority
of the armut®
Package Biogas Device**



- It lowers your waste elimination cost.
- It produces its own energy; it doesn't need any electrical feed from outside.
- It can be integrated to other renewable energy systems.
- The digested sludge exiting from the digester part is an organic, hygienic and qualified liquid fertilizer.
- It minimizes the smell and the waste storage while preventing the environmental pollution.
- It contributes to your company's efforts to get the ISO 14001 certificate or to the Constant Amelioration Principle.
- It is an aesthetically appealing, compact device.
- Being a portable package device, its mounting is very easy. Only the supply of the food waste and the removal of the outlet organic fertilizer for its usage, are enough to operate Armut.

- It works fully automatically. It provides easy operation with PLC and control panel.
- The commissioning duration is short. Especially, the units which are not used during winter time in hotels and resorts can have a very short start-up period.
- It needs minimum foot-print.
- Constructed with Carbon Steel, its interior and exterior is covered with corrosion proof epoxy.
- It has minimum energy consumption. Electrical and thermal energy is produced with the biogas usage in the optional CHP unit.
- It has two years guarantee against production and fabrication mistakes.
- It is constructed according to the ISO 9001, ISO 14001 and OHSAS 18001 certificates.



**The Functions
of Device armut®**



- Waste Preparation and Separation,
- Hydrolysis and Fermentation,
- Biogas Storage,
- Pasteurization.

**The Equipment
Included in armut®**



1. Waste Feed System,
 2. Waste Grinding Unit,
 3. Biogas Storage, Biogas Blower and Safety System,
 4. CHP Unit (Optional),
 5. Circulation System,
 6. Electrical Control Panel,
 7. PLC Automation and Operator's Panel,
 8. Emergency Biogas Discharge System,
- Note:** Operator can use the produced biogas, if it is appropriate, in the boiler room.