



What is a micro auto gasification system?

Terragon's novel Micro Auto Gasification System, or MAGS TM, is the world's most compact, efficient and environmentally safe technology for the conversion of a variety of combustible materials into thermal energy for use by the site where these materials are generated.

What is Terragon's micro auto gasification system?

Terragon's Micro Auto Gasification System is a novel energy appliance fueled by waste. Safely convert your solid waste and sludges onsite to recover valuable energy. Terragon's Wastewater Electrochemical Treatment Technology purifies oily water, grey water or black water for onsite recovery of clean water or safe discharge to the environment.

How does auto gasification work?

The hot gas re-circulates through the appliance to maintain the elevated temperature needed to continue the gasification process, hence Auto Gasification. MAGS is an energy generating device that is fuelled by waste, and as a result produces approximately 100 kW of thermal energy for use by the site where it is located.

How does Terragon auto gasification work?

In Terragon's proprietary Auto Gasification process, the synthesis gas is used as the fuel for the process. Thus, the waste is converted to inert carbon products by "cooking it" and using the vapours generated from the "cooking" as the fuel for the process. MAGS TM is USDA approved by APHIS as a technology for handling Regulated Garbage.

What are the advantages of gasification technology?

In addition, gasification technology is highly suitable to recover the thermal energy from the process. Eliminates disposal costs for hazardous organic waste. Recovers 100 kWh

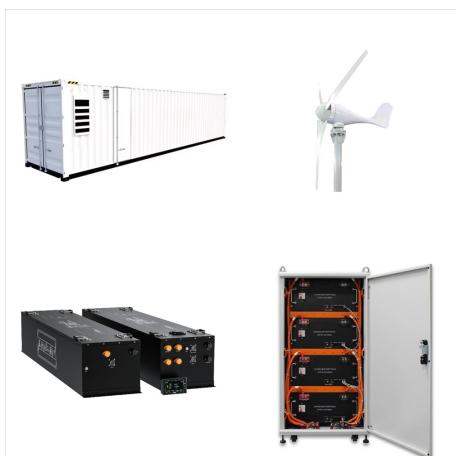
What is Mags gasification & how does it work?

Put simply, MAGS gasifies - or "cooks" - waste, reducing it by more than 95 percent in volume to bio-char and a hot gas (syngas). The hot gas re-circulates through the appliance to maintain the elevated temperature

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MAGS uses Terragon's patented technology, Micro Auto Gasification, to thermally break down waste and transform it into a solid carbon material (bio-char) and a synthesis gas (syngas). The syngas becomes the main fuel source for MAGS, a?|



----- Abstract A compact, container express (CONEX)-housed waste to energy unit, Micro Auto Gasification System (MAGS), was characterized for air emissions from burning of types of military waste as a preliminary characterization of potential gasification emissions. The MAGS unit is a dual chamber gasifier with a secondary diesel-fired combustor.



Micro Auto Gasification System MAGS Compact, efficient and environmentally safe technology for the conversion of waste into thermal energy for use by the site where the waste is generated. MAGS can be used to eliminate all combustible waste produced by a ship, community or institution, while sterilizing the inorganic portion of the waste.

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MAGS TM a?? Micro Auto Gasification System. MAGS TM (Micro Auto Gasification System) is a patented system used for the generation of energy and bio-char from combustible material, such as paper, plastic, packaging, wood, textiles, food waste, agricultural waste, contaminated solvents, used oils, sludges, infectious or hazardous materials, and



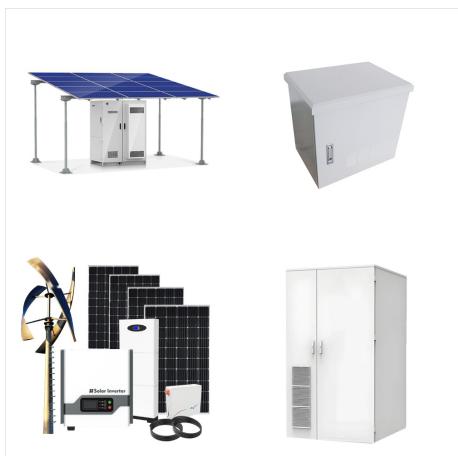
A newly developed Micro Auto Gasification System (MAGS) converts waste on board into thermal energy in the spirit of the circular economy, further increasing the ship's efficiency. Fuel cells are considered the technology of the future. The principle is as simple as it is ingenious. Hydrogen plus oxygen are converted into electricity and heat.

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The waste management system is part of a wider effort to make the Icon of the Seas a more sustainable ship, including the use of LNG fuel and waste heat capture. (MAP) and Micro Auto Gasification (MAG) systems will a?|



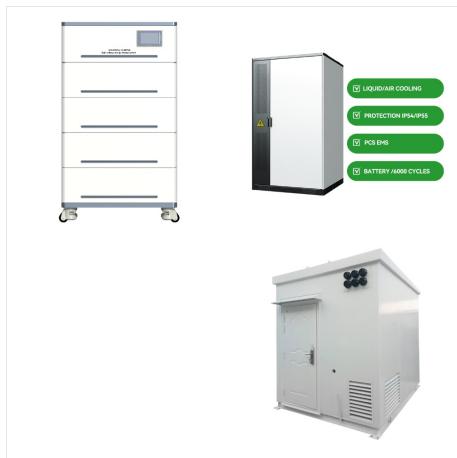
MAGS uses Terragon"spatented technology: Auto Gasification Process, to thermally break down hydrocarbons in waste and transform them into a small amount (5% by weight) of harmless residue (bio-char) and



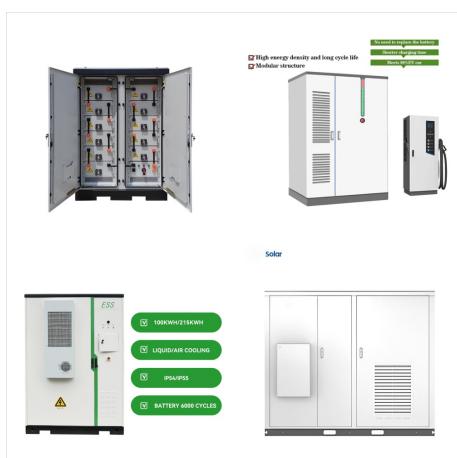
This solution relies on the patented "Auto Gasification" process to enable the treatment of all combustible waste on-site, generate clean energy and soil-enriching biochar to be used within the habitat, while producing clean air emissions. MAGS destroys waste on-site, reducing its volume by 95%.

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system requiring minimal maintenance Maintaining a safe, clean and sanitary habitat under all circumstances Low fuel consumption and Energy efficient system based on auto-gasification technology A Clean thermal treatment technology for all organic based waste onboard Eliminates disposal costs for hazardous organic waste. Recovers 100 kWh



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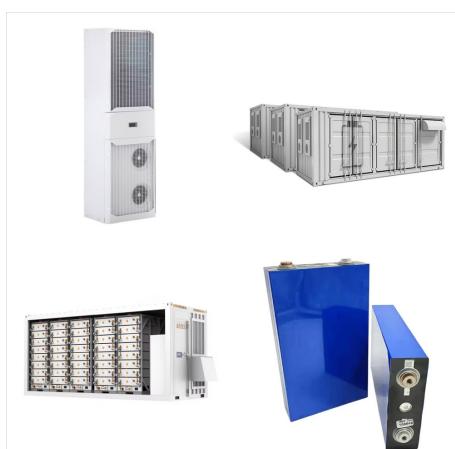
Ein neu entwickeltes Micro Auto Gasification System (MAGS) reduziert das Abfallvolumen an Bord, was zu nochmals geringeren Verbrennungsemisionen fuert. a??Zu unserer Strategie gehort es auch, den Schiffbau zur Klimaneutralitat zu bringen. Wir sind in den vergangenen Jahren dabei schon die erste Schritte gegangen und machen nun bei diesem

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MAGS uses Terragon's patented technology, Micro Auto Gasification, to thermally break down waste and transform it into a solid carbon material (bio-char) and a synthesis gas (syngas). The syngas becomes the main fuel source for MAGS, which eliminates the need for external energy sources and renders the appliance virtually self-sustainable.



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Auto Gasification is Terragon's patented technology. MAGS thermally breaks down waste into biochar and syngas. The syngas is then used as fuel to make the process self-sustaining. a?c 120 kW energy generation (hot water or space heating) a?c Integrated gas cleaning and energy recovery a?c Quench and scrubber eliminate dioxin/furan formation



Auto Gasification is a patented technology which thermally breaks down hydrocarbons into solid carbon and synthesis gas and uses the synthesis gas to fuel the process. MAGS offer exceptional energy efficiency and can be operated anywhere MAGS converts all organic waste, such as plastics, papers, food, cardboards, textiles, wood, used oil,

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