COOK AND HEAT WITH WASTE AND WATER.

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Very important warning: "Chargas" is carbon monoxide, which is a fuel and very toxic gas. While it is firing, or is on, that is, as long as it has a flame, it is not so toxic, but if it flies away or turns out the flame then it is a criminal gas because it has no color nor smell and can kill. Never use it in closed spaces. Just use it outside, outdoors. It is very poisonous. They are useless chin, masks or a brooch in the nose, you just don't have to breathe it. Extreme precautions!

When using the "Chargas" in motor engines it is necessary to use only carbonized organic waste, because when the waste is carbonized, tar is eliminated and a “Chargas” is achieved without the dirt of the tar. But during the carbonization process, half of the calories of waste without carbonize are lost. In addition, filters are used for the "Chargas" to reach the engine without dust. A fan is also used ONLY to start igniting the gasifier, then it is not necessary to use this fan because the engine suction aspires the “Chargas” generated by the gasifier. For better system compression I strongly suggest and read the “Free electricity or Gen on waste” guide, it can be download for free at Driveonwaste.com to understand how this gasifier works.

But when using the "Chargas" in heating or for cooking:

USE ONLY OUTDOORS: It should be used only outside, outdoors. While “Chargas” is ignited, that is, as long as it has a flame, it is not so toxic, but if it is used inside a room and the flame blows away, then the whole room will be filled with this toxic and mortal gas.

WASTE: Carbonized organic waste can be used to produce a “Chargas” without tar. But if non carbonized waste is used, cover the cooking pan to prevent tar and dust from modifying meals.

FILTERING: Here you can use the "Chargas" with or without filtering.

BLOWER: Here it have to use a 12 Vdc or 220Vac blower to create the constant flow through the nozzle and keep the gasifier always ignited, with a battery.

The size of the fire depends on the inside diameter of the nozzle and the force of the blower. The flow of the blower has to be in accordance to the nozzle hole. If the blower flow is too intense, the “chargas” may have too much air and it will no be combustible.

The system turns on as follows:

* Open the gasifier lid, fill with the waste, clean the edges of the drum where the lid is placed to avoid air entry through the lid. Place the lid and the clamp. Place the filter and fan at the exit of the gasifier, is to say “downstream” of the gasifier. In this way the fan will act as a suction fan producing an air flow through the nozzle. See the photo on the right.

* Remove the plug from the nozzle. Turn on the fan. Inject alcohol through the nozzle. Light the gasifier with a small torch, through the nozzle. Vent the "Chargas" out for 3 min. Light with a flame the "Chargas" that comes out through the metallic pipe called vent. When the flame of "Chargas" is stable and does not fly away, that is, when the flame is stuck, the system has already been completely purged from the air.

Bless Father to those who invoke you with sincere devotion regardless of religion.

Bottle with alcohol.

Alcohol in nozzle

Propane torch

Fire in nozzle

View of ember at the mirror.

Then, inject into the nozzle 1 drop of water not salted every 2 or 3 seconds so that the water by temperature, that is, by thermolysis, dissociates in hydrogen and oxygen. Waiting 2 more minutes for the hydrogen to travel the entire system and end up reaching the vent.

* Turn off the fan. Disconnect the filter and fan from the gasifier output and connect only the fan to the nozzle. That is to say "water up" of the gasifier. See the photo on the right. In this way the fan will act as a blower keeping the gasifier on and thus prevents the fan getting dirty with tar if there were any. Connect the gasifier output to the heating or kitchen system that will use the "Chargas".
* Fire the "Chargas" for cooking or heating.

<u>THE SYSTEM IS TURN OUT AS FOLLOWS:</u>

Turn off the flame. First plug the entrance to the gasifier and then plug the gasifier outlet. It is achieved that the gasifier is suffocated due to lack of air and turns off completely. Cut water injection. If the system was continuously used with the filter at the exit of the gasifier, there is likely to accumulate condensed water. This condensed water can come from a very humid load and/or excess drops of water added to the nozzle. Check the filter and empty the possible accumulation of condensed water.

If the gasifier is not plugged, it will remain on and the entire load can end up converted into ashes.

In this world let's leave a footprint so that humanity does not leave a waste footprint in this world.