

Welcome to the Biggest Farmer *Biogas* Network!



3rd
Edition

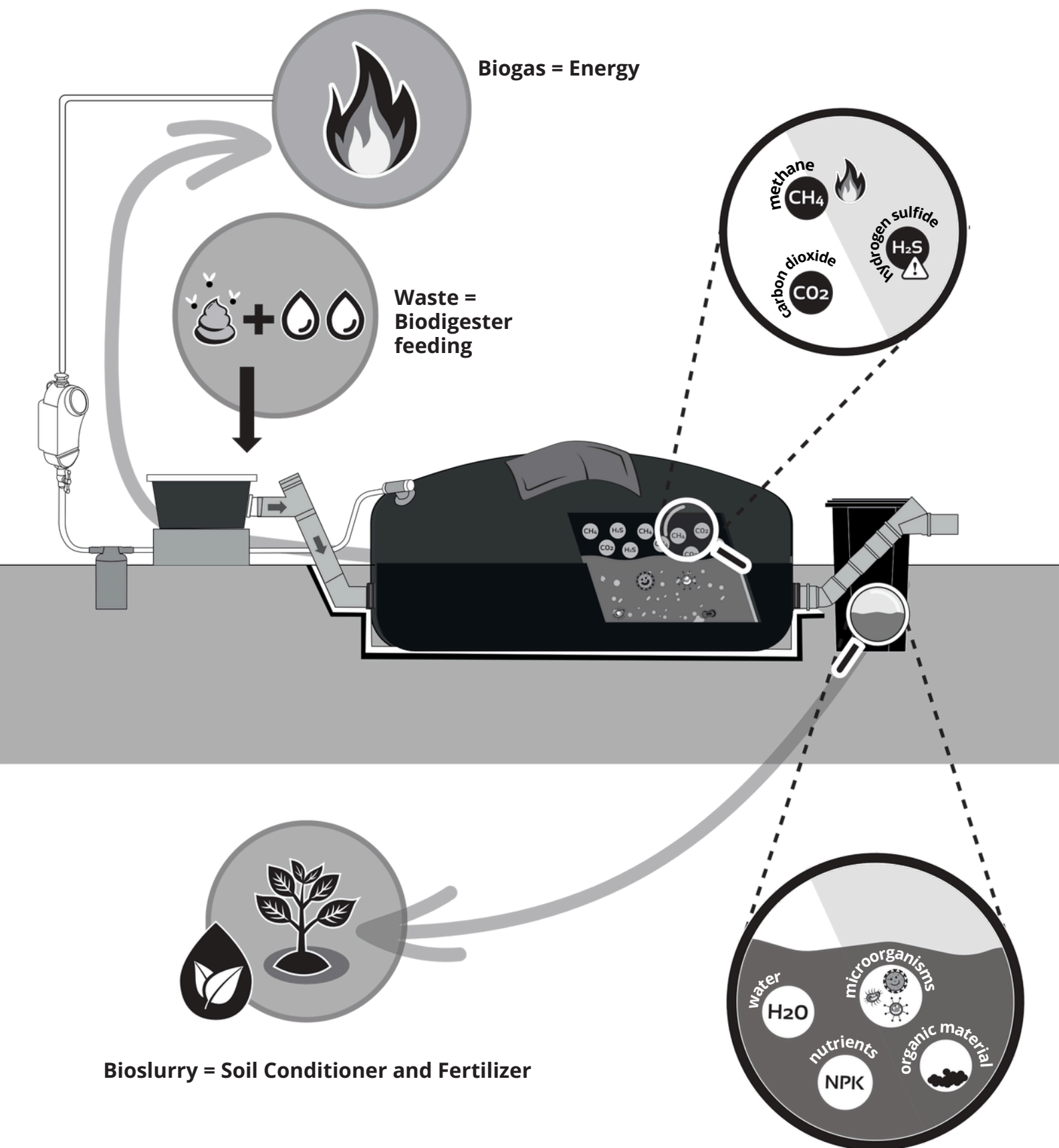
*Includes
Regenerative
Farming Tips*

Get The Most Out Of Your
Biodigester!

USER MANUAL 3.0

 SISTEMA.bio®

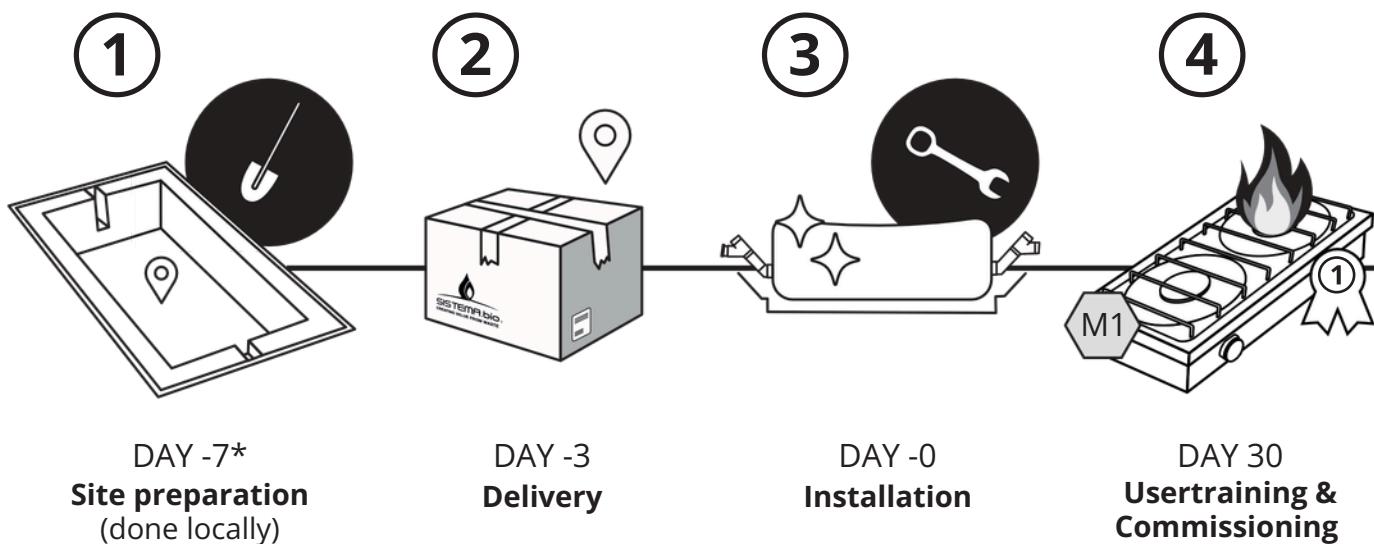
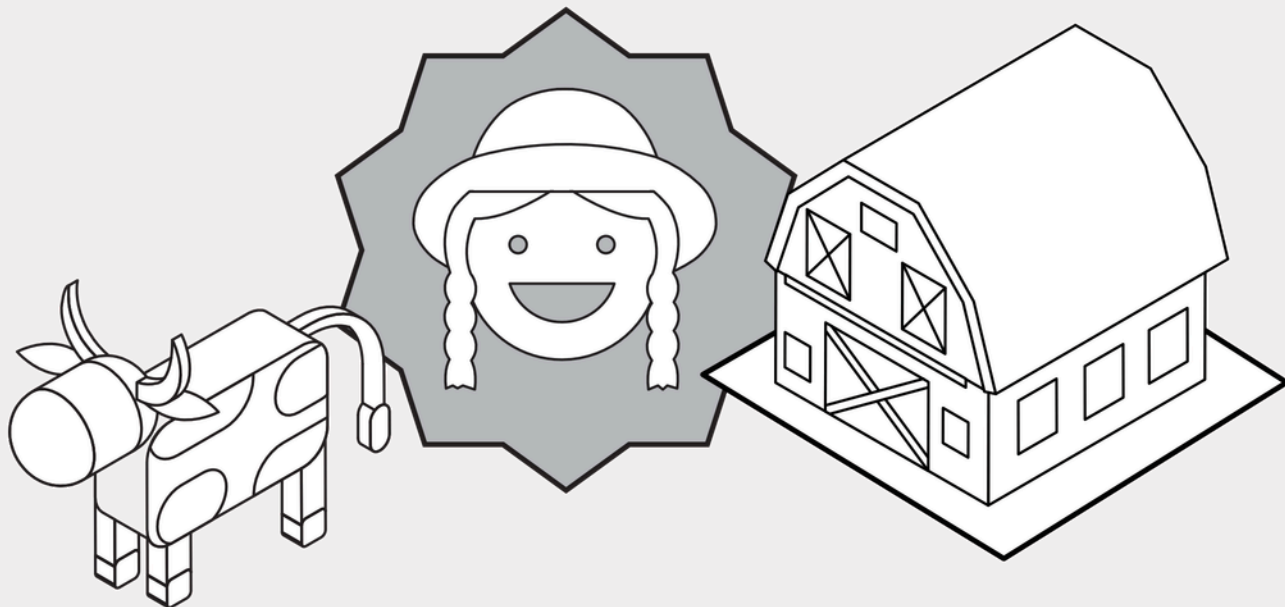
Understanding Your Biodigester



Index

2	Your Journey With Sistema.bio
4	Glossary Of Symbols And Icons
5	How To Use This Manual
6	Installed Biodigester
7	Biodigester Functional Components
9	Safety
9	Biodigester
10	Bioslurry
13	Biogas
15	Biodigester Startup
19	How To Use Your System
19	Maintain Your Digester
22	Biodigester Productivity
23	Use Of Biogas
26	Bioslurry Usage
28	Bioslurry And Regenerative Agriculture
30	Maximize The Biodigester's Benefits
32	Spare Parts
33	Biodigester Specifications
34	Maintenance And Care Plan
36	Basic Troubleshooting
42	Disposal
42	Details To Keep In Mind
43	Notes
45	Monitoring And Service Visit Schedule
47	Warranty
48	Your Well-Being With Sistema.bio
48	How To Report A Concern
49	Safety Advice For Farmers
52	Customer Care

Your Journey With Sistema.bio



Monitoring



Monitoring visits

*All dates are approximate and informative.

**Followed up by an SMS if the call is not answered.

What are the benefits of **the customer journey**?



1 year warranty for the gas line & appliances, and 10 years for the manufacturing defect of the black membrane of the biodigester.



3 in person visits covering the installation, your user training and the follow-up of the installation.



Customer Support is available to answer any doubt you might have or do repairs on your installation when needed!

5



DAY 90
**Adoption call
& optional visit**

6

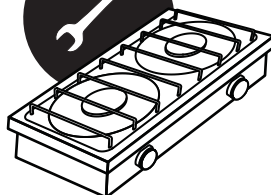


DAY 180
**Impact measurement
& Training**

7

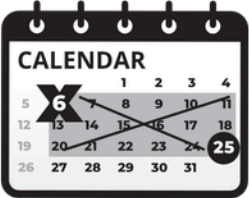


ANNUALLY
**Annual
Birthday Call****



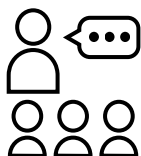
WHEN NEEDED
Service visits**

Glossary Of Symbols And Icons

General Icons	
	DO NOT
	DO
	Frequency
	Counterweight
	Soil
	Unhappy client
	Favorable/ Unfavorable environmental effects
	Recycle

Safety Icons	
	Biogas leakage/leak
	Risk of fire
	Caution
	Fatal

For the USER



Get all biodigesters users and your family together, pay close attention and participate! Your technician will provide training during these stages:

- Installation: 30 min
- Monitoring 1: 45 min
- Monitoring 3: 30 min



If you encounter any issues while using your system, refer to the troubleshooting steps on pages 36 to 41 in this manual. If the problem persists, don't hesitate to contact customer care for support (see page 48).



Youtube video and reference number from the youtube list

For the TECHNICIAN

00 • Visit

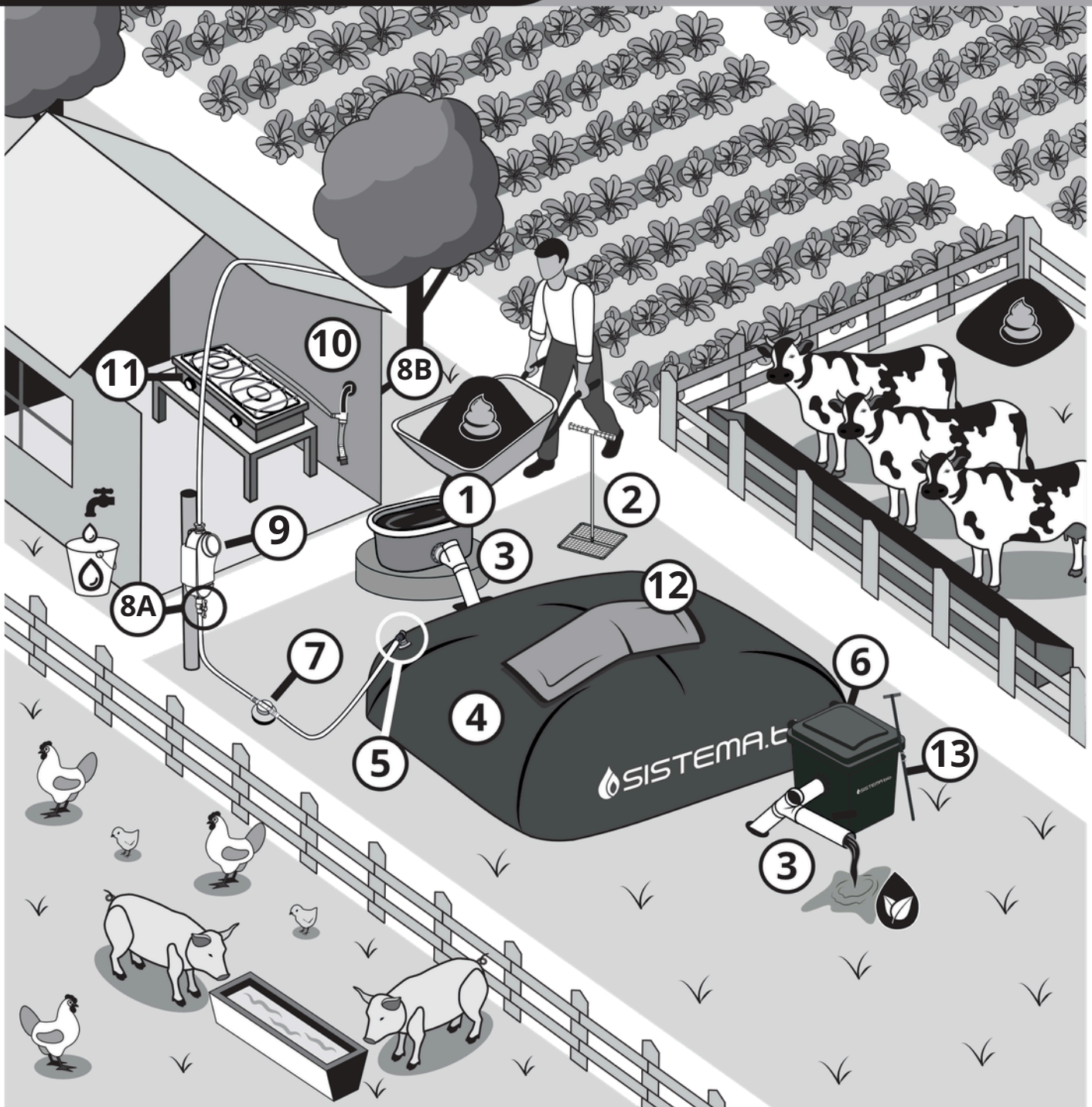
Follow the helper notes provided at the bottom of the page to identify the pages to cover during specific visits.



With a pen, circle/highlight and fill in the appropriate details on pages 42 to 46 and other relevant pages.



Scan this QR code to access the master playlist with all the videos included in this manual. Throughout the manual, you'll also find process-specific playlists organized exactly where you need them.



Know the **elements** of your installation

- | | | |
|------------------------------------|--------------------------|---------------------|
| 1. Feeding tank | 6. Bioslurry outlet tank | 10. Water trap |
| 2. Dung mixer | 7. Pressure relief valve | 11. BioStove |
| 3. Inlet and outlet reactor piping | 8. Isolation valves | 12. Counterweight |
| 4. Biodigester | 9. Biogas filter | 13. Unblocking tool |
| 5. Biogas outlet | | |

Note: Components might differ depending on the region and the local context of the project.

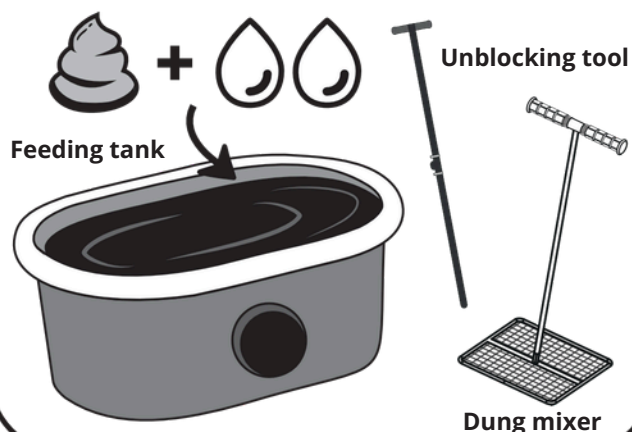


Biodigester Functional Components

SISTEMA.bio®

1

Feeding tank: Allows you to mix dung and water using the dung mixer. It also helps you identify and remove unwanted elements.



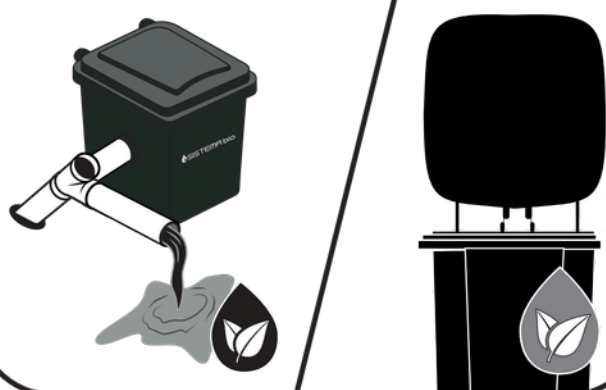
7

Pressure relief valve (PRV): It controls the pressure in the biodigester using water for counter-pressure.



6

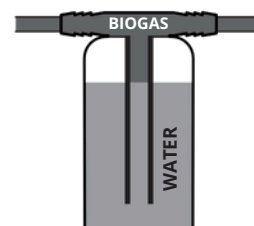
Bioslurry outlet tank: Allows you to store and access bioslurry.



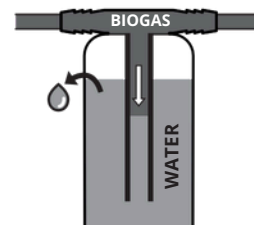
NOTE: All these components require regular operation and maintenance actions as explained later in the manual!

Components might differ depending on the region and the local context of the project.

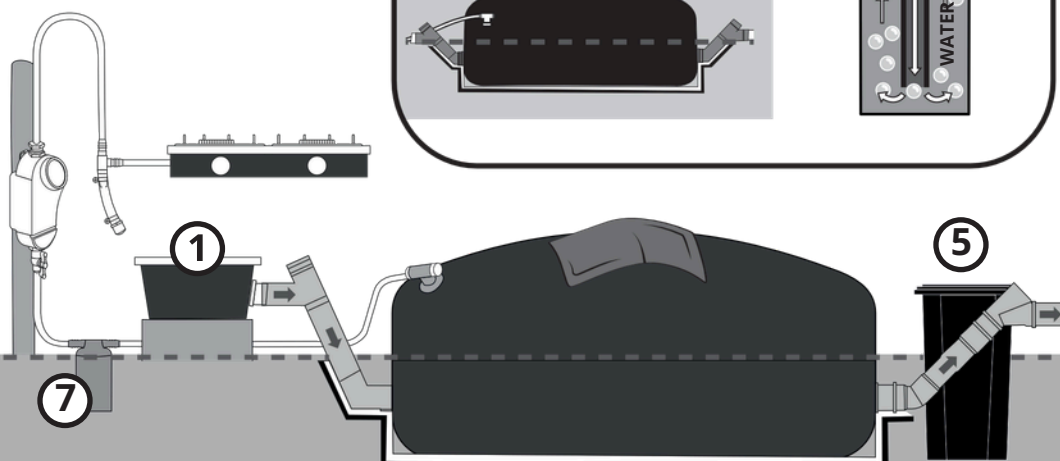
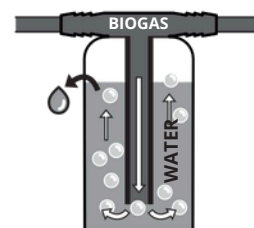
a. LOW PRESSURE



b. PRESSURE INCREASE



c. HIGH PRESSURE

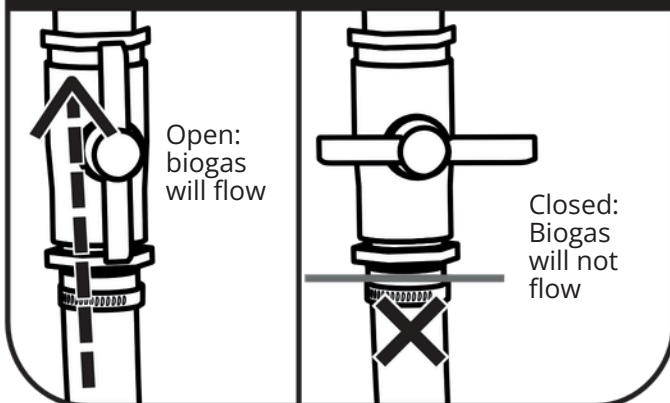




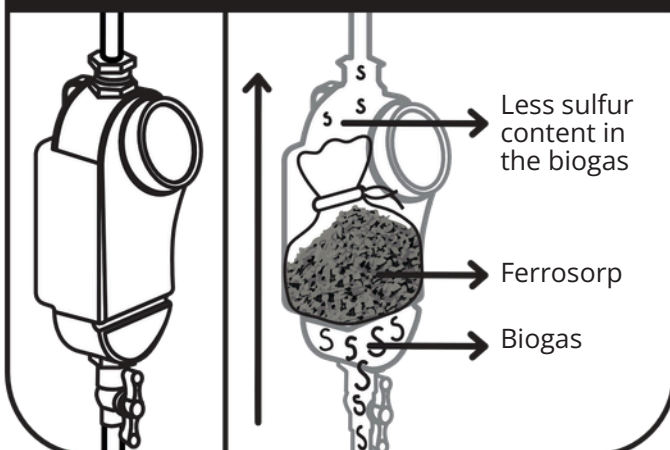
Biodigester Functional Components

SISTEMA.bio®

- 8 Isolation valve:** It allows you to close and stop the biogas flow.



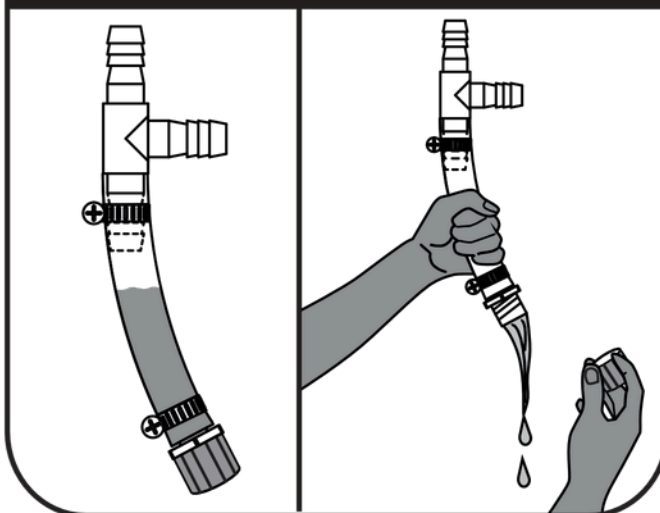
- 9 Biogas filter:** Removes H₂S from biogas, making the system safer and extending the lifespan of metallic appliances.



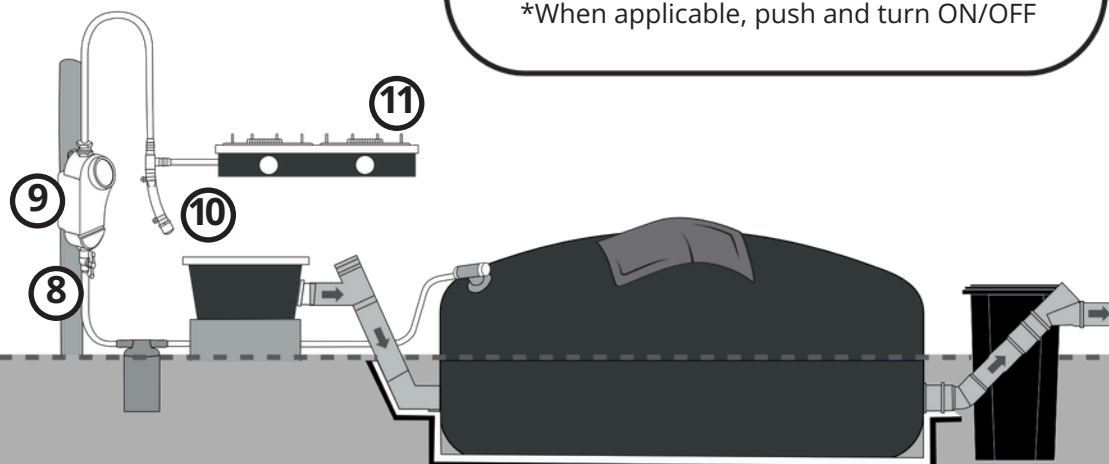
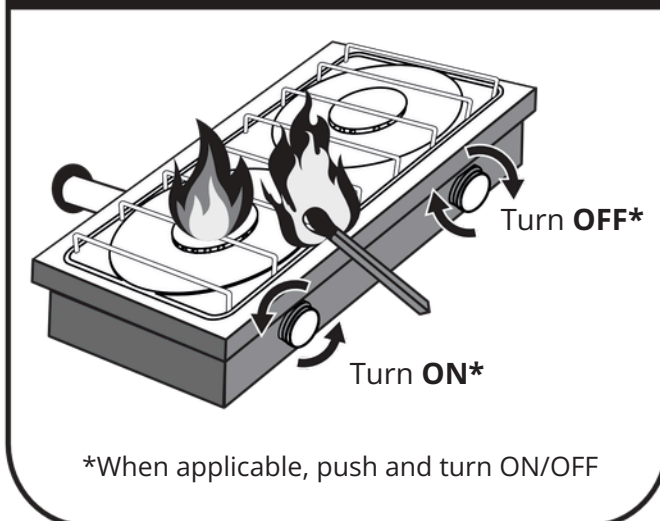
NOTE: All these components require regular operation and maintenance actions as explained later in the manual!

Components might differ depending on the region and the local context of the project.

- 10 Water trap:** When the temperature drops, the water in the biogas condenses and is collected by the water traps.



- 11 BioStove:** Appliance included in the standard kit.





Safety

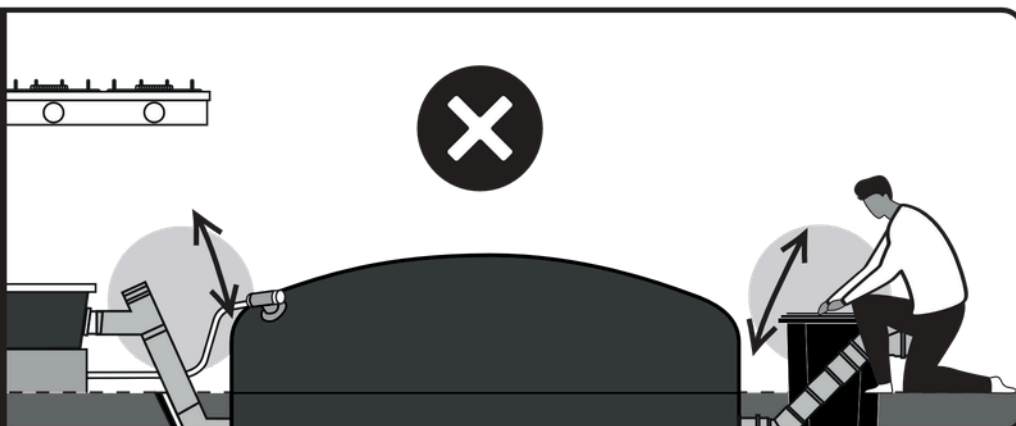
Biodigester

SISTEMA.bio®

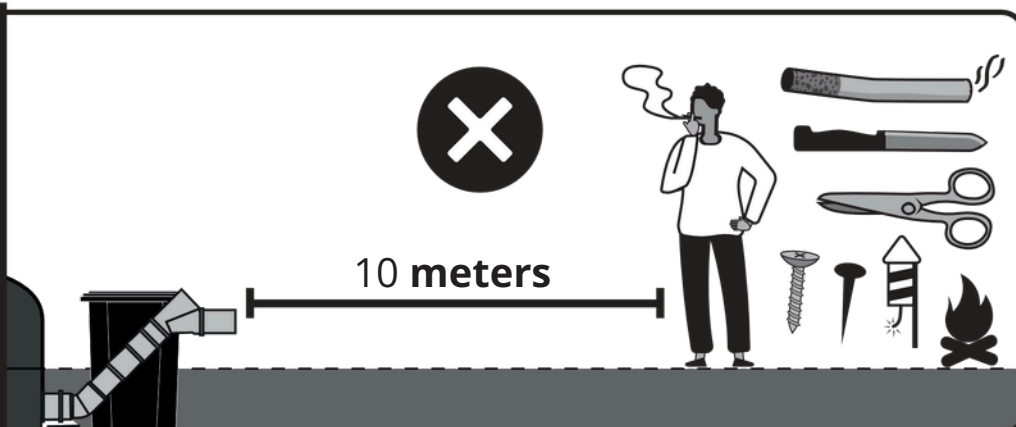
DO NOT
allow **unattended**
children around the
digester, **DO NOT**
jump on or run on
the digester.



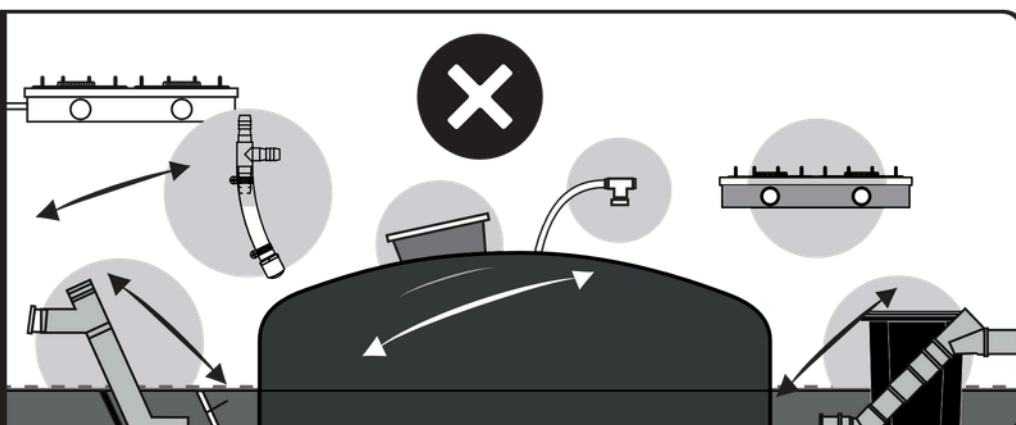
DO NOT
pull, lift or raise the
level of the pipes that
enter or exit
the digester.



DO NOT
smoke, use **sharp**
objects or **create**
flames near the
biodigester area.



DO NOT
change the
position of
the biogas
components.





Safety



Bioslurry

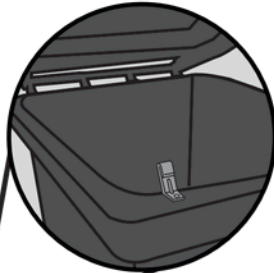
SISTEMA.bio®

FOR DIGESTER 3.0 (BIOSLURRY OUTLET TANK WITH LID INCLUDED)

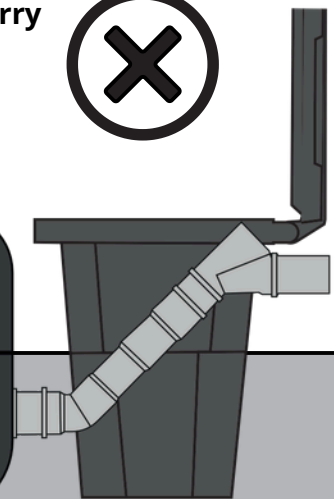
The Bioslurry outlet tank lid must remain closed and locked at all times. It should only be opened to collect bioslurry using a bucket or a pump.

The lid will automatically lock when closed. **Make sure it is locked.**

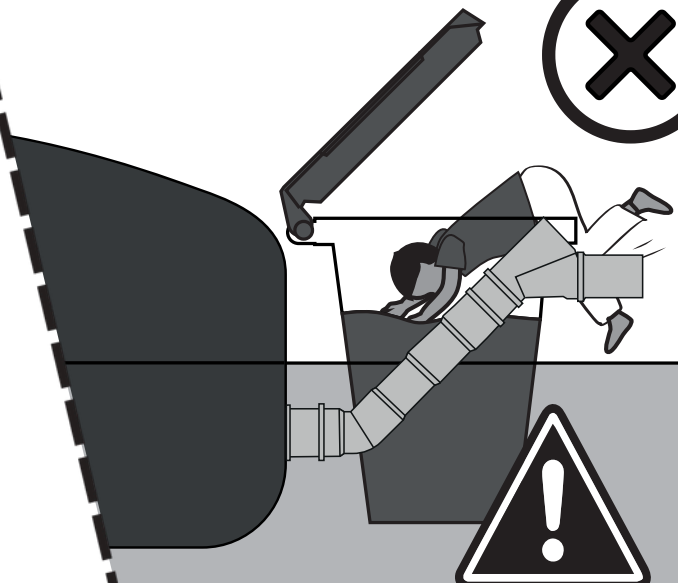
Push the locking mechanism forward to open the lid.



Keep **lid locked** and **use bioslurry** to prevent overflow.



No open flame
fre risk.



Drowning
risk.



Safety



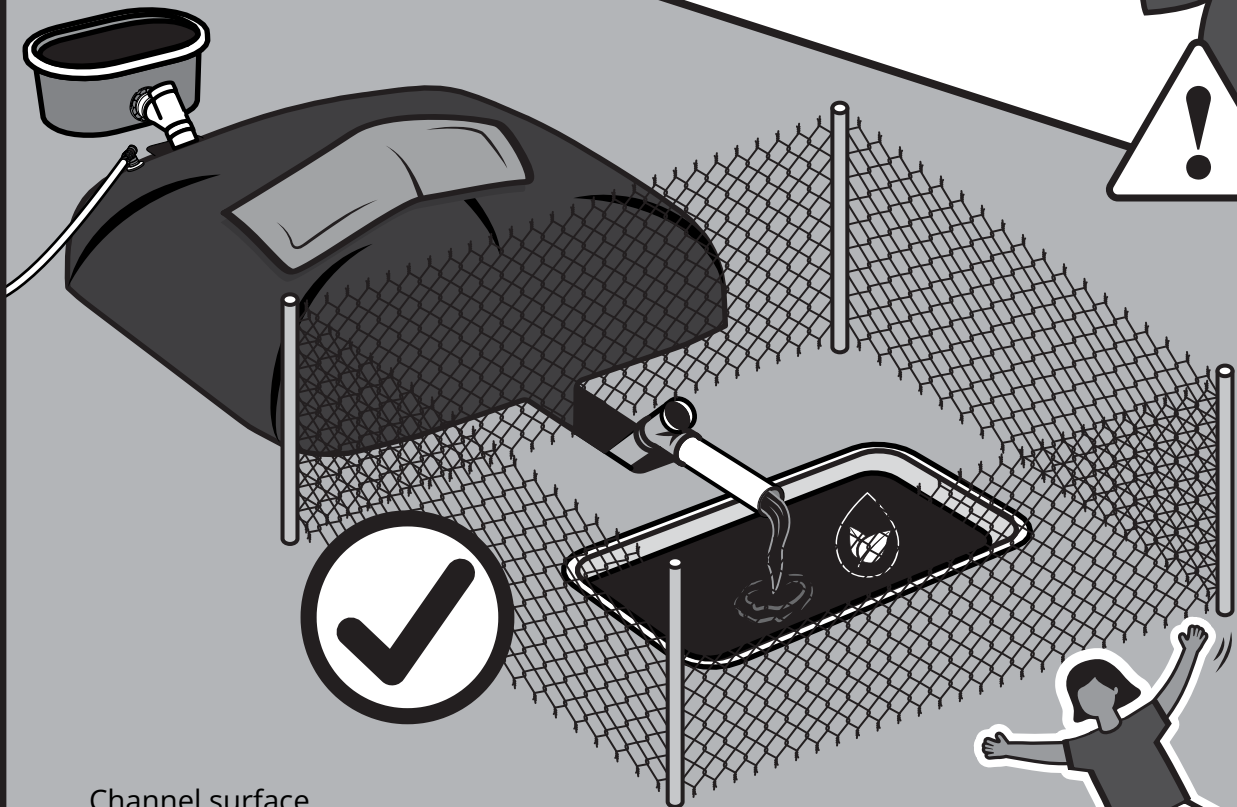
Bioslurry

SISTEMA.bio®

IF YOU BUILD YOUR OWN BIOSLURRY OUTLET TANK

Protect its access to prevent accidents. The fence should be childproof, strong enough to withstand 30 kg, durable over time, and have no open spaces to prevent animals and children from falling in. DO A FREQUENT REVISION OF YOUR FENCE AND MAINTAIN IT AS SOON AS YOU DETECT A DAMAGE TO KEEP YOUR TANK SAFE.

DO NOT drink the bioslurry, avoid direct contact with eyes and skin.



Channel surface run-off water away from the digester to **prevent soil erosion and trench wall collapse.**



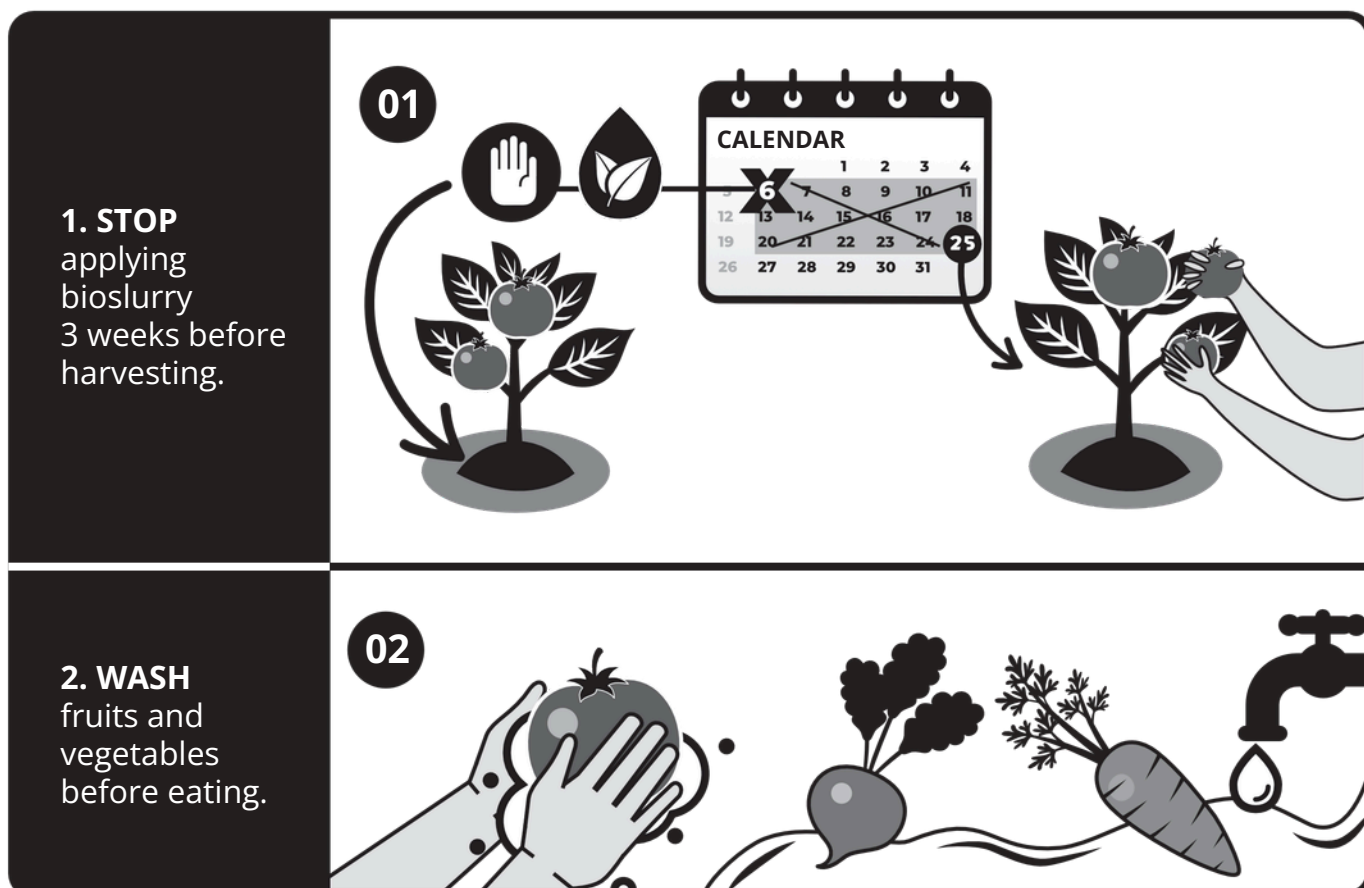


Safety



Bioslurry

SISTEMA.bio®





Safety



Biogas

SISTEMA.bio®

DO NOT inhale biogas directly under any circumstances.

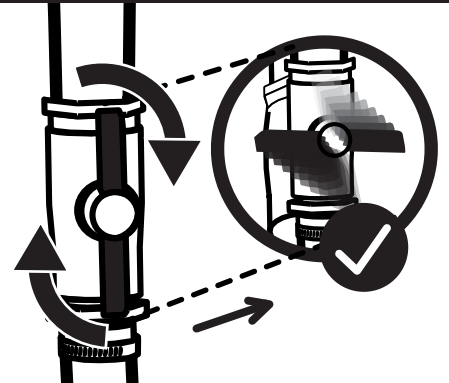
Biogas is **toxic**. Inhaling it can be **deadly**.



1. A biogas leak can smell like **ROTTEN EGGS**.

2. Once a leak is detected indoors, **LEAVE** the house as there is risk of fire and toxicity.

3. **CLOSE** the isolation valve to **STOP** the biogas flow.



4. **VENTILATE** the house so the gas can dissipate.

5. **DETECT** and **REPAIR** the leak.

6. **CALL** your customer care service for long term repair. Please refer to page 48.





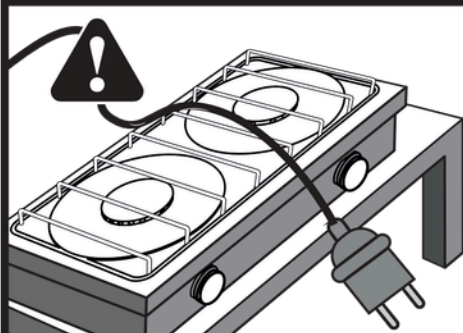
Safety



Biogas

SISTEMA.bio®

DO NOT let any wires or connections go over the stove. Place the BioStove on a solid and a steady surface.



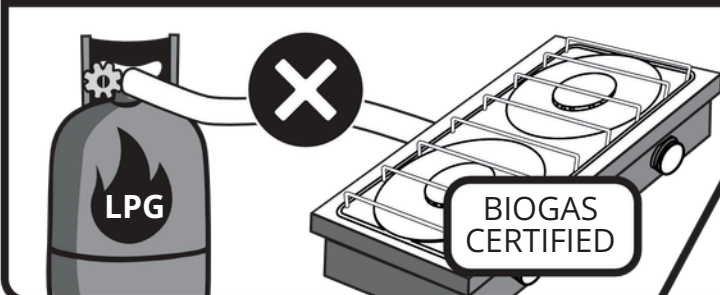
DO NOT place curtains or any other inflammable object near the flames.



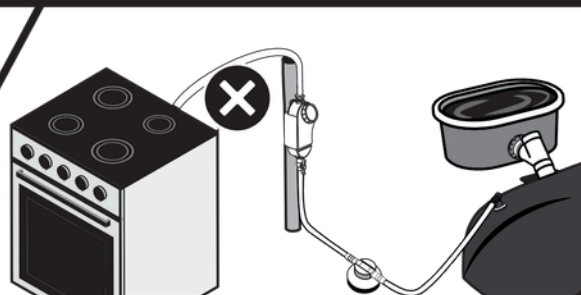
BE CAREFUL while using the BioStove as you can burn yourself.



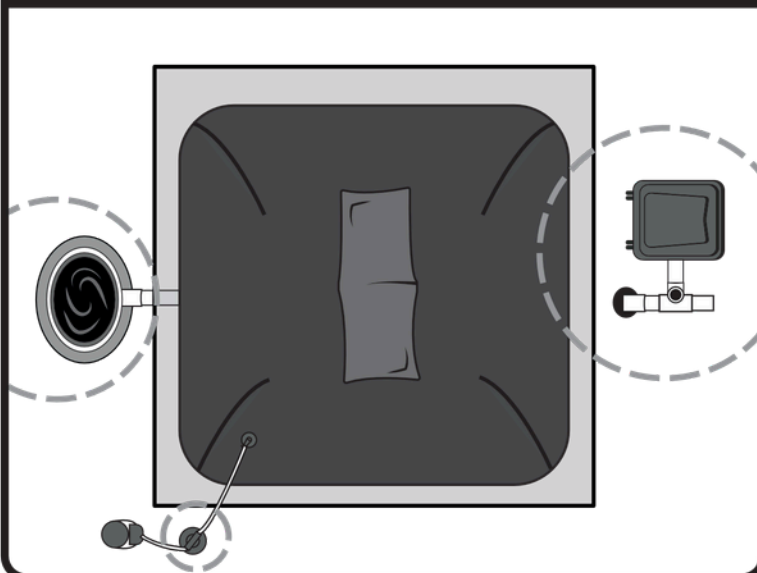
DO NOT connect the BioStove to any gas source other than the biodigester.



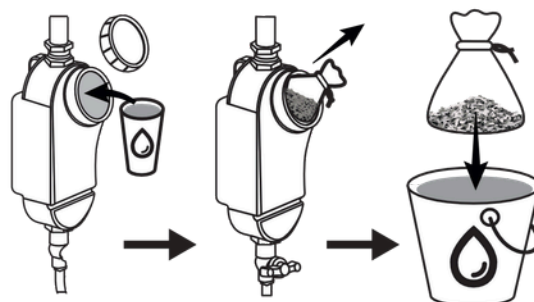
DO NOT connect the biogas line to a natural LPG stove.



IF THE BIODIGESTER IS **INSTALLED IN A GREENHOUSE**, the pressure relief valve and bioslurry tank must be installed outside the greenhouse. The greenhouse must be **fully ventilated** before entering.



Safety During Regeneration



WARNING: the filtration media can take fire when in contact with air. After closing the valve and unscrewing the lid, pour a liter of water in the filter. Then, for its regeneration, after removing the bag from the biogas filter, dip it in a bucket of water to prevent it from heating up and causing a fire.



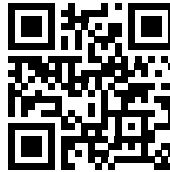


Biodigester Startup

SISTEMA.bio®



Scan or click on the QR codes along the document.

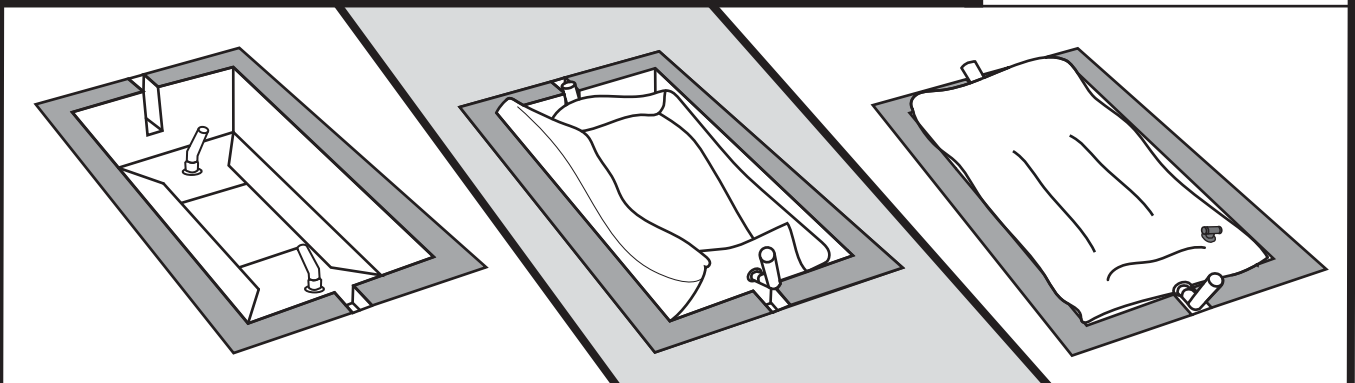


Scan or click on this QR code to access the videos supporting the section "Biodigester startup".

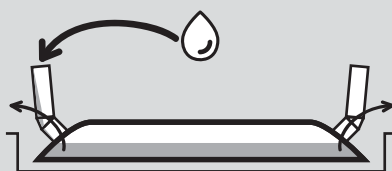
STEP 1 Fill the reactor with water (or bioslurry) until water reaches the inlet and outlet elbows.



(i5)



Filling = 0%



Filling = IN PROGRESS



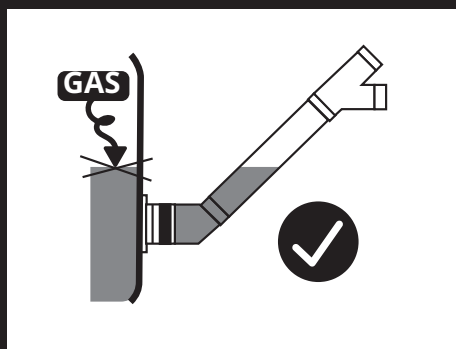
Filling = 100%



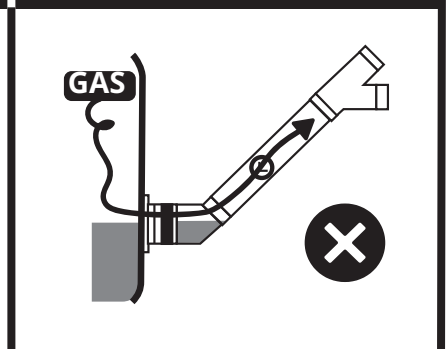
Water (or bioslurry) volume required to fill the biodigester

	m3	liters
Sistema 6	3	3,000
Sistema 8	4	4,000
Sistema 12	6	6,000
Sistema 16	8	8,000
Sistema 20	10	10,000
Sistema 30	15	15,000
Sistema 40	20	20,000

Good hydraulic seal: gas is trapped inside the reactor.

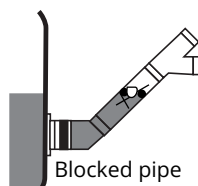


No hydraulic seal: gas can escape.

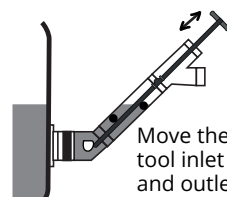


HOW TO
Use the unblocking tool to unclog pipes

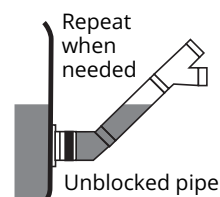
Fibrous and other dry and solid materials might block the inlet and outlet pipes.



Blocked pipe



Move the tool inlet and outlet



Repeat when needed

Unblocked pipe



Biodigester Startup

SISTEMA.bio®

QR CODE for videos on page 15

STEP 2

Fill the PRV with water until it overflows.

STEP 3

Close the gas line.

(OM3), (OM3bis), (OM4)

STEP 4

First feeding.

We recommend using **cow dung** for the first feeding.

Storing dung piled under a tarp for 5 days before the first feeding will improve the startup of the digester.

Add as much **bioslurry** (also called **digestate**) as possible from a working digester to shorten the startup time.

STEP 4

**

	Cow dung first feeding in kg			Cow dung first feeding in 20L buckets		
	Warm >25 °C	Temperate 15 to 25 °C	Cold 10 to 15 °C	Warm >25 °C	Temperate 15 to 25 °C	Cold 10 to 15 °C
Sistema 6	500	400	250	25	20	13
Sistema 8	650	500	350	33	25	18
Sistema 12	900	700	450	45	35	23
Sistema 16	1300	1000	650	65	50	33
Sistema 20	1800	1350	900	90	68	45
Sistema 30	2500	1800	1200	125	90	60
Sistema 40	3500	2500	1700	175	125	85

DILUTE
1 part cow dung with
2 parts water

*First feeding brings bacteria into the digester to start digestion, followed by a resting time for inflation.
 **For any other type of waste, your technician will write the instructions on page 42 of this manual.

Example: **SISTEMA 6**
Warm climate

COW DUNG:
500 kg or 25 buckets of 20L

+

WATER: 1000L
or 50 buckets of 20L

Remove the following elements from the dung before feeding into the digester.

REMOVE

- Sand, stones
- Grass, fibers, leaves, wood, wood chips
- Soil
- Plastic, metal, glass
- Citrus fruits
- Cooking oil, as it can cause operational issues



Biodigester Startup

Please refer to **page 15** to open the corresponding **QR code**.

DO NOT FEED with dung from animals that were given antiviral or antibiotic medication **during the previous 5 days**.



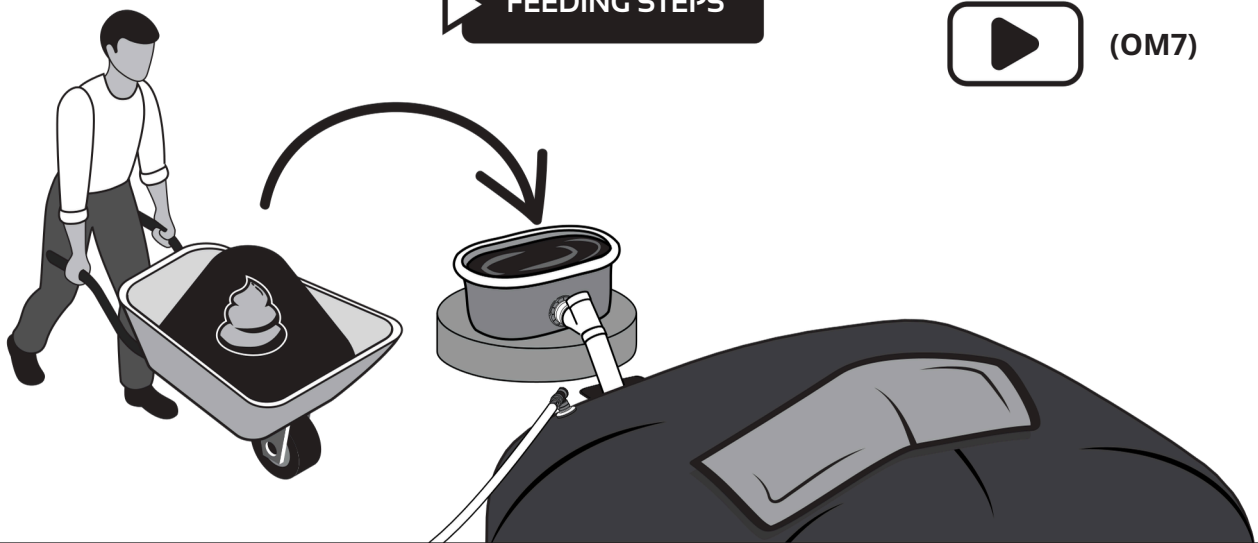
<5 days
before feeding



FEEDING STEPS*



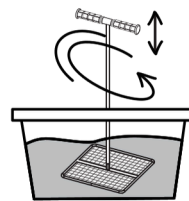
(OM7)



1. Dilute dung.
2. Use the dung mixer to mix the dung and water.
3. Let the mixture (slurry) rest for 5 minutes.
4. Remove floating materials.
5. Feed the reactor.
6. Remove settling materials like stones and sand frequently.



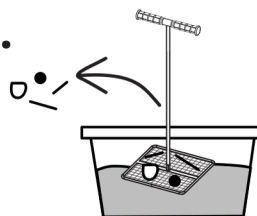
1.



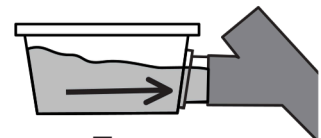
2.



3.



4.



5.



6.

*Applies for first feeding as well as daily feeding.



Biodigester Startup

SISTEMA.bio®



**WAIT FOR THE
REACTOR TO
INFLATE**



TIME TO INFLATE:*

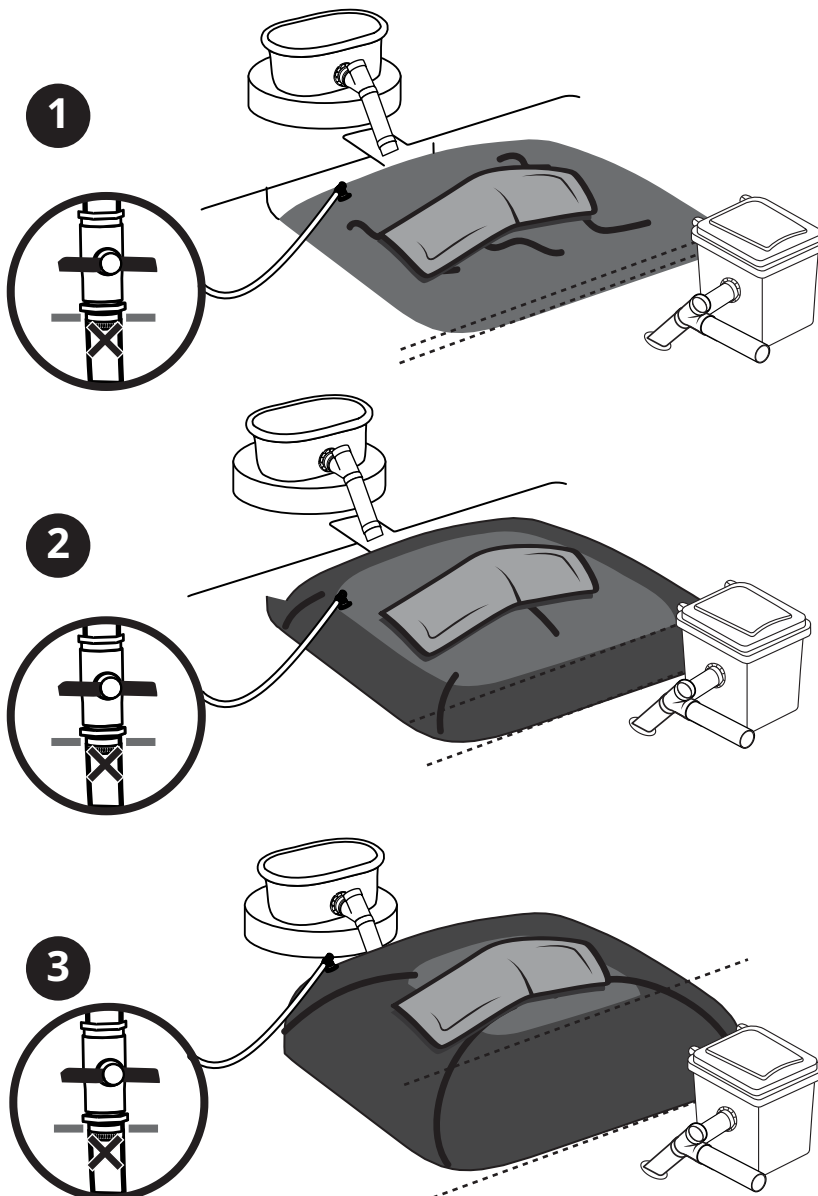
Up to 3 weeks in warm climate/season



3 weeks to 1.5 months in temperate climate/season



1.5 to 2.5 months for cold climate/season

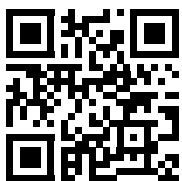


*It is common and normal that the biogas does not light after the first inflation: drain the gas (mainly containing CO₂ - carbon dioxide) outside in an open space through the PRV, and let it inflate once again.



How To Use Your System

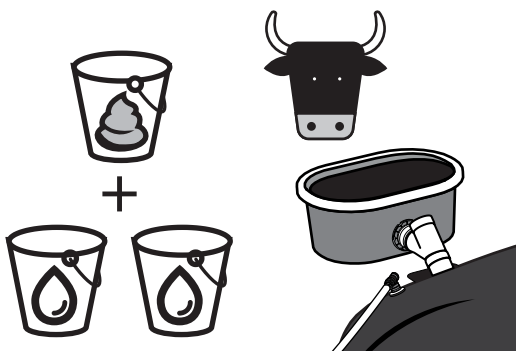
SISTEMA.bio®



Maintain Your Digester

FEEDING. Feed your digester **EVERY DAY** with 1 volume of cow dung and 2 volumes of water.

NOTE: for other waste types, please consult your technician.



Daily feeding*

*See feeding steps page 17 and the daily feeding quantities page 22 & 42.



(OM8)

CALENDAR

				1	2	3	4
5	6	7	8	9	10	11	
12	13	14	15	16	17	18	
19	20	21	22	23	24	25	
26	27	28	29	30	31		

AGITATION

Agitate **once a week**

DO NOT agitate



Agitate only when the digester is **DEFLATED**

CALENDAR

			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	31	



when **INFLATED**

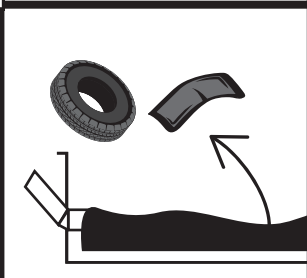
1

Remove any **sharp objects** from shoes to avoid damaging the reactor



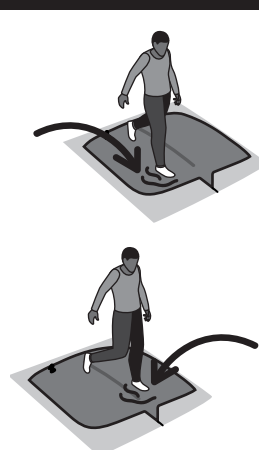
2

Remove **counterweights** before starting agitation

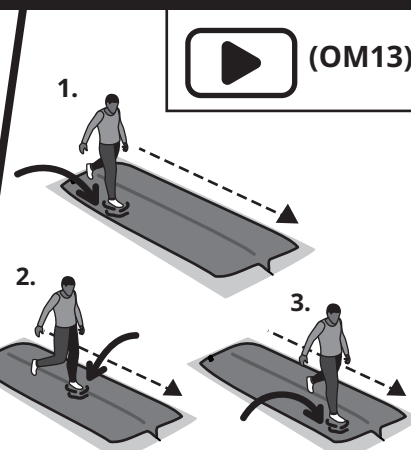


3

Agitate by walking slowly along your biodigester, shifting all your weight from one leg to the other.



Sistema **6 to 12**



Sistema **16 to 40**



(OM13)

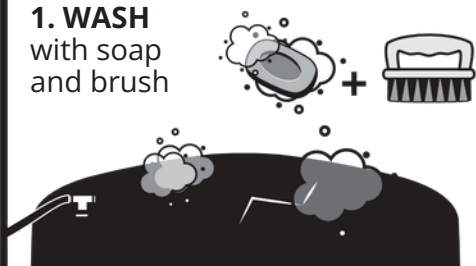


How To Use Your System

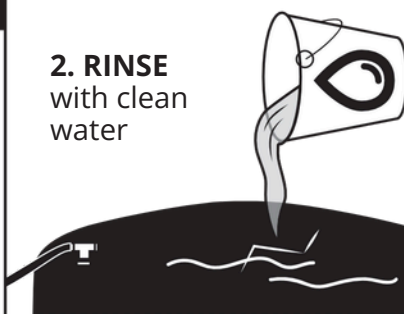
SISTEMA.bio®

MEMBRANE DAMAGE REPAIR

1. WASH
with soap
and brush



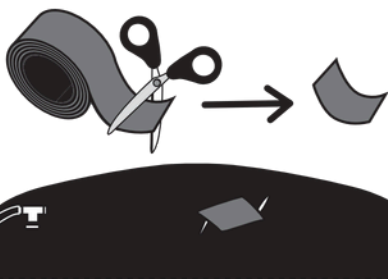
2. RINSE
with clean
water



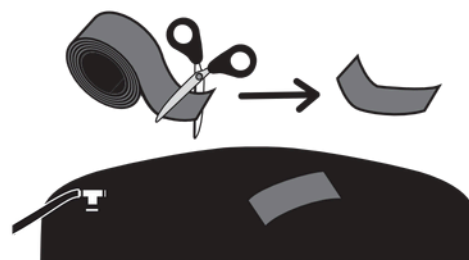
3. DRY the
membrane



4. APPLY a small patch of butyl tape



5. APPLY a
larger one
covering the
first patch



NOTE: this is a medium term repair to allow you to use your reactor! Please call your customer care service for long term repair.

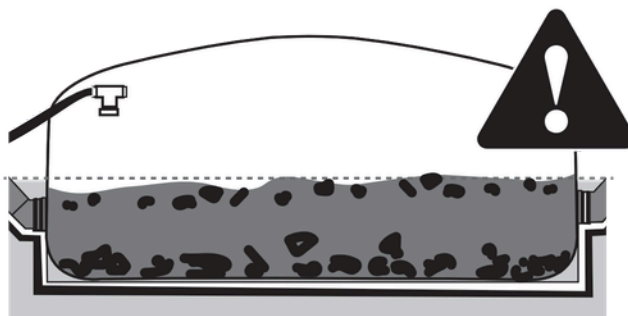
LONG-TERM MAINTENANCE

CALENDAR

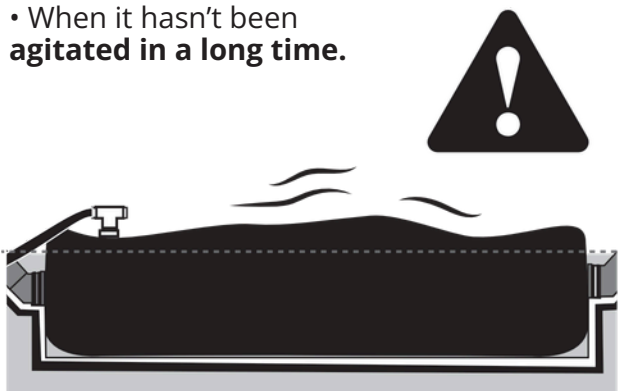
Every 5 to 7 YEARS
or whenever it is
required.

When is it required to **reactivate** a digester?

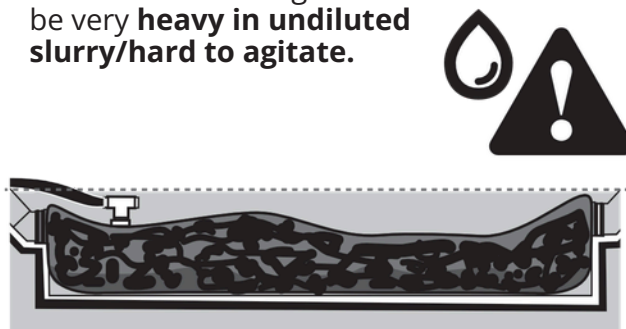
- When there are **solids accumulated** inside.



- When it hasn't been **agitated in a long time.**



- When not enough water has been added. The digester will be very **heavy in undiluted slurry/hard to agitate.**



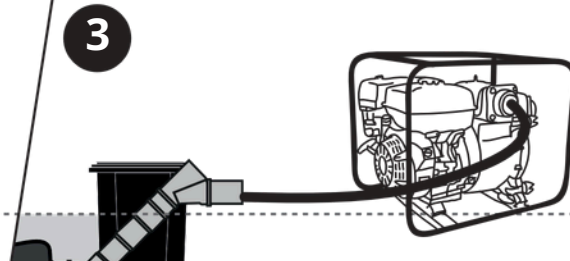
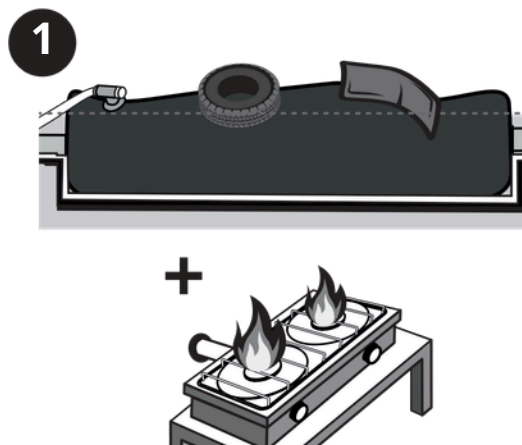


How To Use Your System

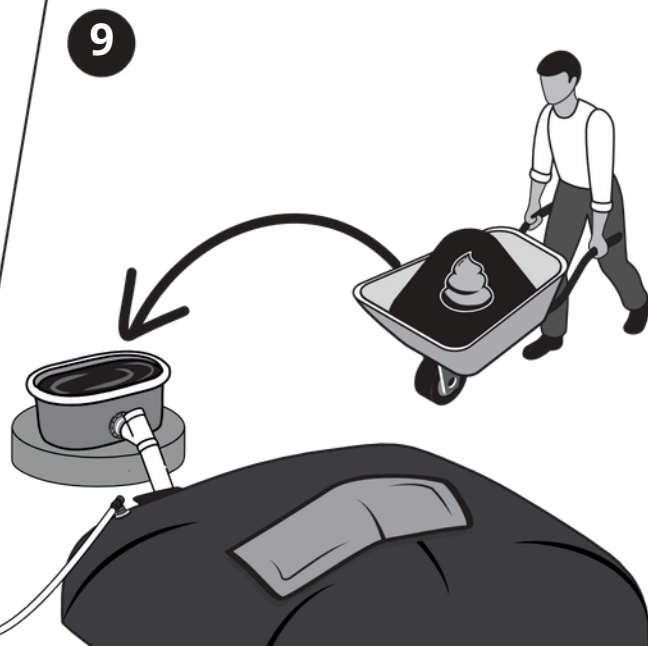
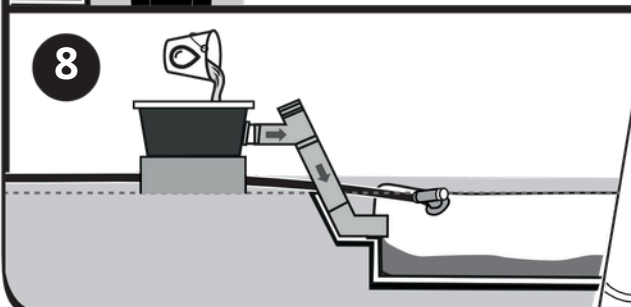
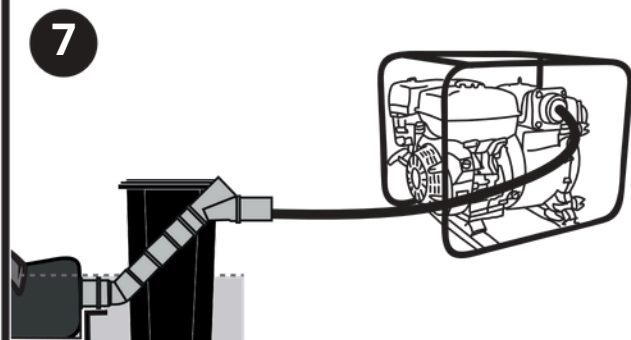
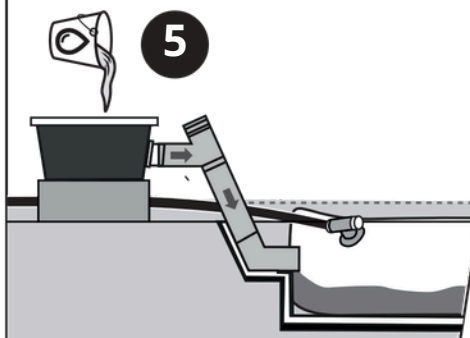
SISTEMA.bio®

Process: Reactivating a digester

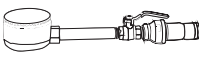
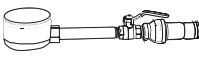
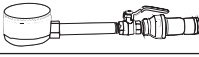
1. **Deflate** the digester by using counterweights, while using all the burners of the BioStove to burn the remaining biogas.
2. **Agitate** the digester vigorously.
3. **Drain** the digester with a 3" slurry pump down to half the height of the trench.
4. **Agitate** vigorously.



5. **Refill** with water.
6. **Agitate** vigorously.
7. **Drain** the digester down to half the height of the trench.
8. **Refill** with water.
9. Proceed with the **first feeding** (follow steps on p. 15).





	Digester size 	SIS 6	SIS 8	SIS 12	SIS 16	SIS 20	SIS 30	SIS 40
 Warm Climate >25 °C	Max. Fresh Dung Input 	50 L or Kg/day	65 L or Kg/day	90 L or Kg/day	130 L or Kg/day	180 L or Kg/day	250 L or Kg/day	350 L or Kg/day
	Average daily Biogas production 	2 m3/day	2.5 m3/day	3.5 m3/day	5 m3/day	7 m3/day	10 m3/day	14 m3/day
	Average daily cooking hours 	3 Hours	4 Hours	6 Hours	8 Hours	12 Hours	17 Hours	23 Hours
	Monthly bioslurry production 	4.5 m3/month	6 m3/month	8 m3/month	12 m3/month	16 m3/month	22 m3/month	31 m3/month
 Temperate Climate 15 - 25 °C	Max. Fresh Dung Input 	40 L or Kg/day	50 L or Kg/day	70 L or Kg/day	100 L or Kg/day	135 L or Kg/day	180 L or Kg/day	250 L or Kg/day
	Average daily Biogas production 	1.5 m3/day	2 m3/day	2.5 m3/day	3.5 m3/day	5 m3/day	6.5 m3/day	9 m3/day
	Average daily cooking hours 	2.5 Hours	3 Hours	4 Hours	6 Hours	8 Hours	11 Hours	15 Hours
	Monthly bioslurry production 	3.5 m3/month	4.5 m3/month	6 m3/month	9 m3/month	12 m3/month	16 m3/month	22 m3/month
 Cool Climate 10 - 15 °C	Max. Fresh Dung Input 	25 L or Kg/day	35 L or Kg/day	45 L or Kg/day	65 L or Kg/day	90 L or Kg/day	120 L or Kg/day	170 L or Kg/day
	Average daily Biogas production 	0.8 m3/day	1.2 m3/day	1.5 m3/day	2 m3/day	3 m3/day	4 m3/day	5.5 m3/day
	Average daily cooking hours 	1.5 Hours	2 Hours	2.5 Hours	3 Hours	5 Hours	7 Hours	9 Hours
	Monthly bioslurry production 	2 m3/month	3 m3/month	4 m3/month	6 m3/month	8 m3/month	11 m3/month	15 m3/month



Use Of Biogas

SISTEMA.bio®

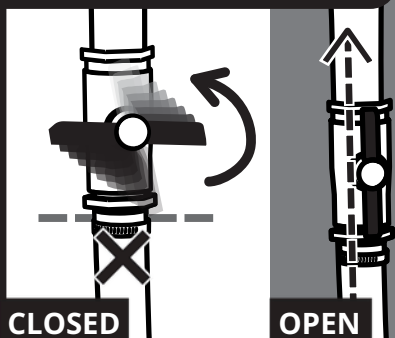
Please refer to **page 19** to open the corresponding **QR code**.

Use the energy you produce and maintain your biogas line!



(OM9), (OM11), (OM12),
(OM2), (OM3), (OM4)

FIRST BIOGAS FLAME



CLOSED

OPEN

1. **OPEN** the valve

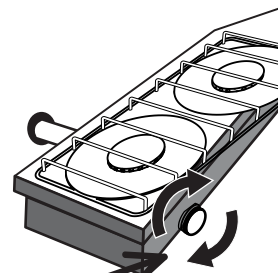
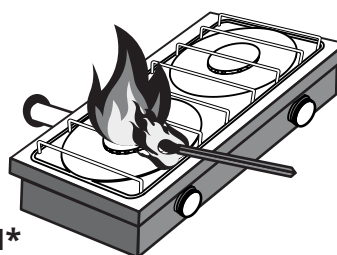
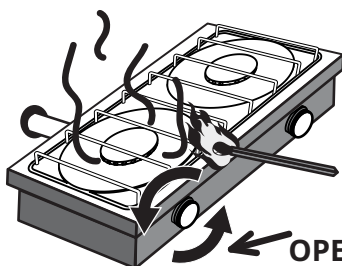
A



1 MINUTE**

B

C



OPEN*

CLOSE

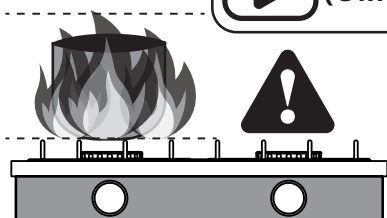
*When applicable, push and turn ON/OFF

2. **ROTATE the handle and let the biogas escape (A)** while you try lighting it with a match. Once the flammable **biogas reaches the burner**, you will see the flame (B). **It might take up to **one minute** for the first flame. To CLOSE, rotate clockwise (C).



DO NOT

let the flame get **TOO BIG** as you will waste part of your biogas heat!

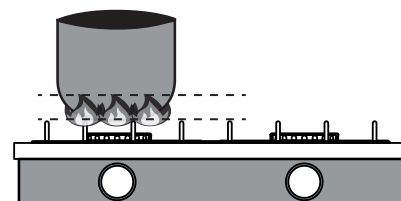


(OM17)



DO

align the flame with the bottom section of the pan.



IMPROVE YOUR FLAME USING COUNTERWEIGHTS

Put a counterweight on top of the reactor. Counterweight should not exceed 30kgs.

DO NOT use any sharp objects that could damage the reactor.

ONLY use one of the following options:

a. BioCounterweight b. Tyres c. Sand bags



(TS5)



CLEANING THE BURNER

CALENDAR

Every week to every month depending on need.

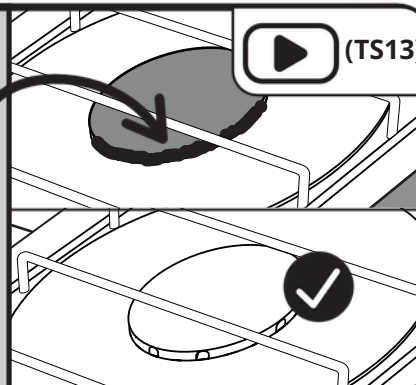
Use

- brush
- water with lemon juice
- soapy water

Clean the cookstove burner to unclog the burner holes.



(TS13)





How To Use Your System

SISTEMA.bio®

QR CODE for videos on page 19

PRESSURE RELIEF VALVE (PRV)

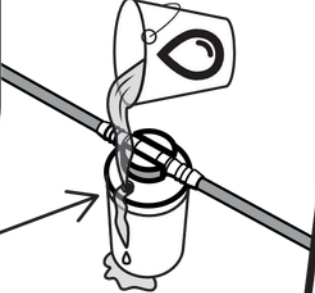
CALENDAR

	1	2	3	4		
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	31	

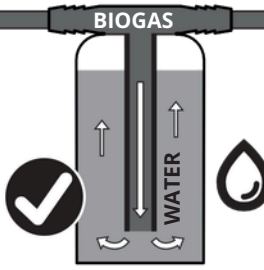
Fill the pressure relief valve with water 2 TIMES A WEEK

(OM2), (OM1)

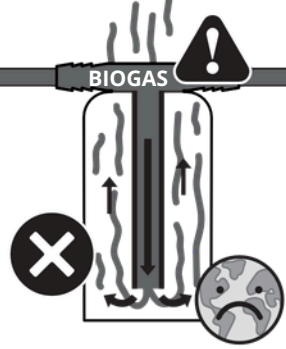
NOTE: Ensure no dirt accumulates inside the PRV.



Filled PRV: Gas is stored in the reactor



Empty PRV: Gas can escape



WATER TRAP CHECK

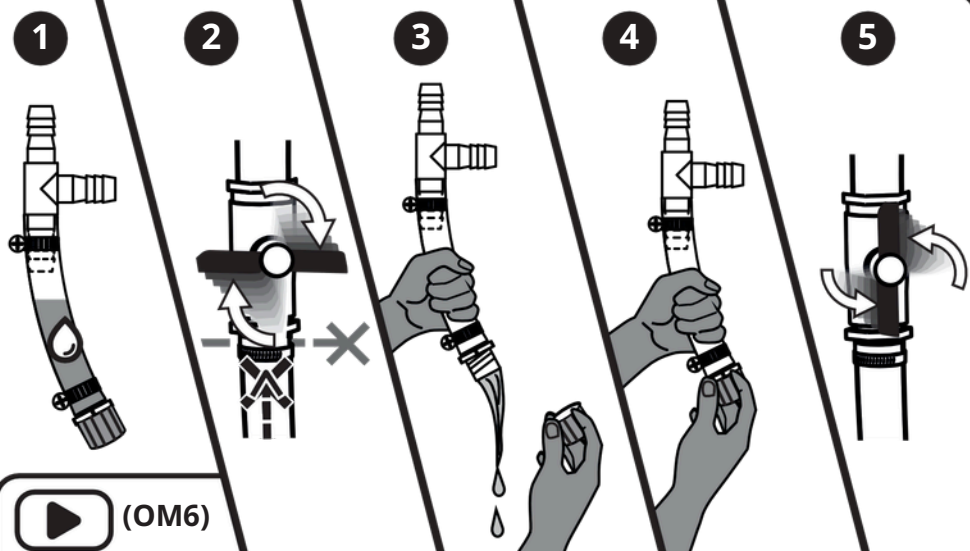
CALENDAR

	1	2	3	4		
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	31	

2 times a week

1. Water trap is **full**
2. **Close** the biogas valve
3. **Drain** the water trap
4. **Close** the water trap
5. **Re-open** the biogas valve

(OM6)



WATER ACCUMULATION IN THE GAS LINE

CALENDAR

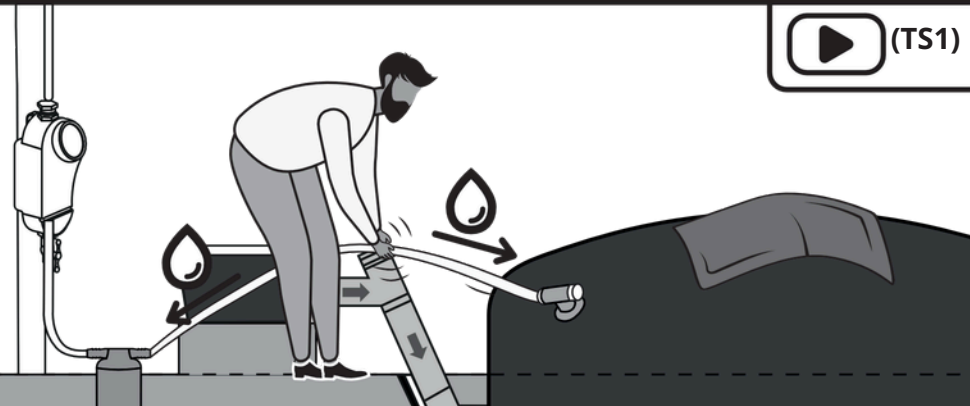
	1	2	3	4		
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	31	

2 times a week

NOTE: Do not hang loads such as clothes on the gas line.

Check the clear pipe for accumulated water and drain it regularly by lifting it. Ensure that the pipe is not folded or kinked. Accumulated water will eventually block biogas flow.

(TS1)





How To Use Your System

SISTEMA.bio®

Please refer to **page 19** to open the corresponding **QR code**.

HOW TO REGENERATE THE FILTRATION MEDIA

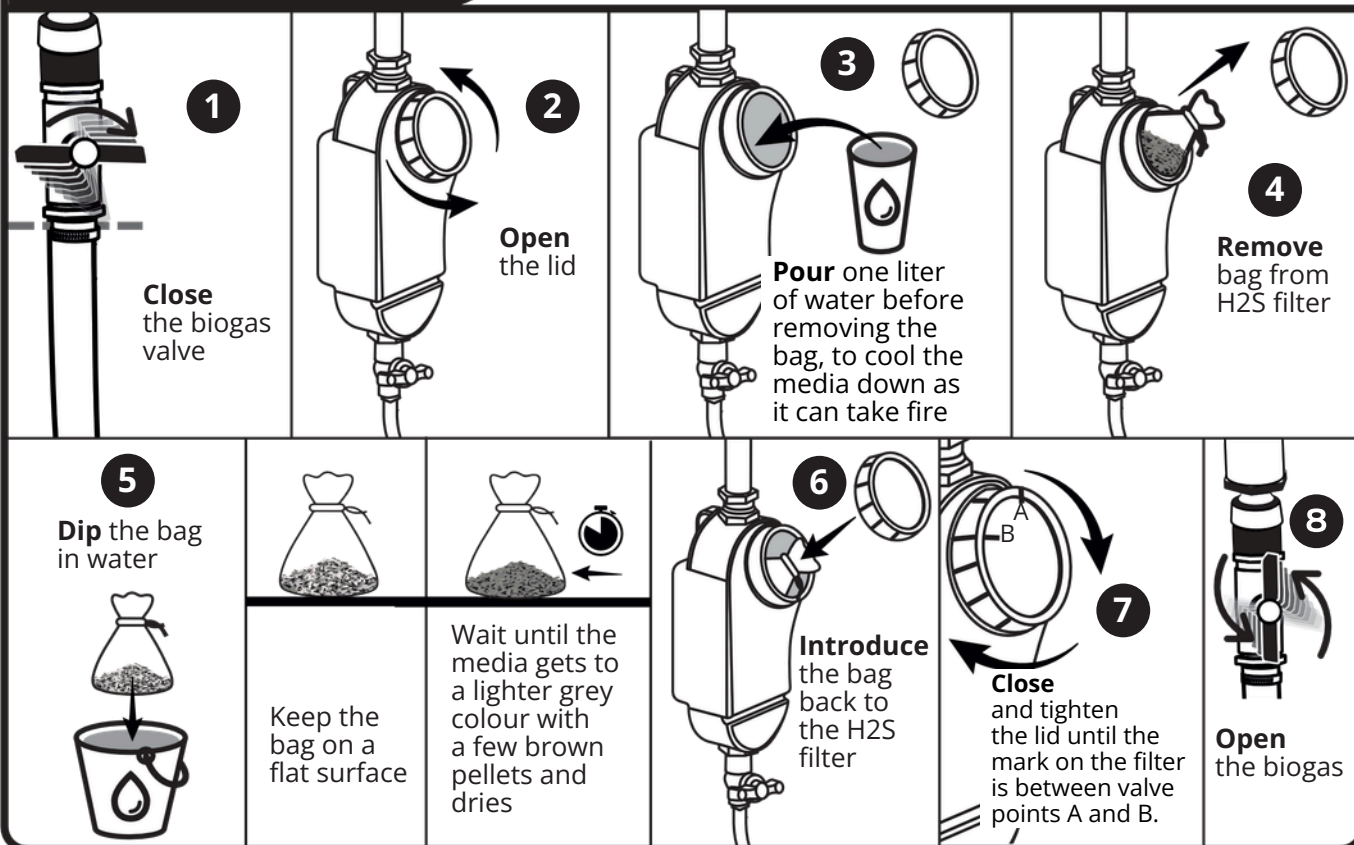
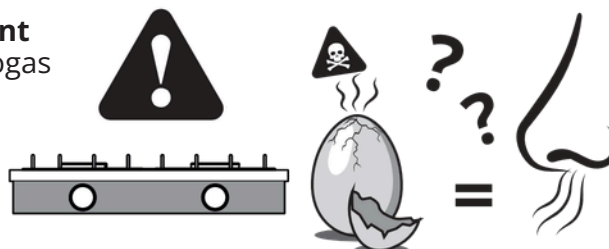


Check every month

Indicators that the **filtration media** needs regeneration:

- **Unpleasant smell** in biogas

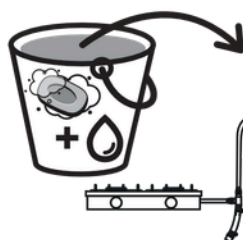
Biogas is **toxic** and can be **deadly**



GAS LEAK INSPECTION

CALENDAR

Every 6 months



Use **soapy water** on every **gas line connection** (filters, valves, pipes and fittings) while the **digester is inflated** to check for bubbles (leaks). Call customer care **if you notice any bubbles**.

Make sure your **isolation valve is open!**





Apply **5 liters of bioslurry** per square meter per year, and a dosage of **2.5** for every crop cycle and for every soil preparation cycle.

Soil preparation before planting

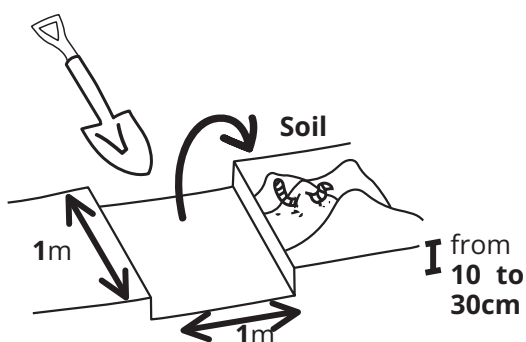


Bioslurry
Manual



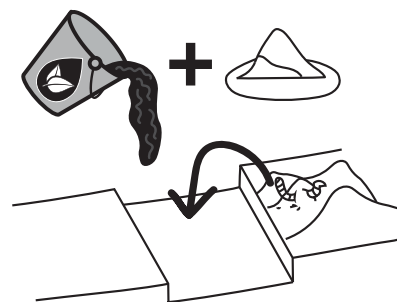
Bioslurry
Protocols

1 Remove the soil

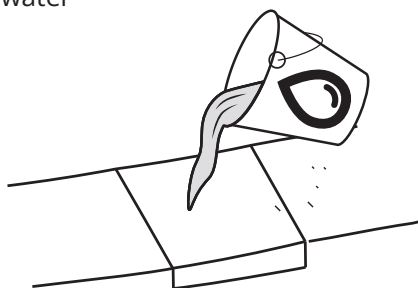


2 Mix and let rest. Apply 2 to 5 liters of bioslurry per square meter.

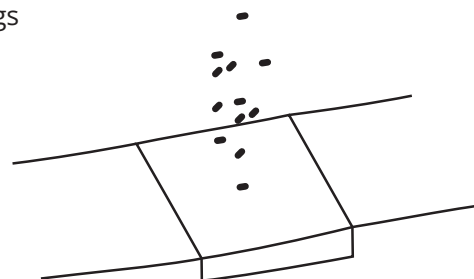
NOTE: let the soil rest for at least 2 days before planting.



3 Before planting: add water



4 Plant: add seeds or seedlings



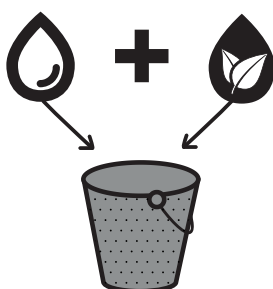
Crop and vegetable fertilization

During dry seasons, dilute 1 part of bioslurry with 1 part of water.

No need for dilution during rainy seasons.

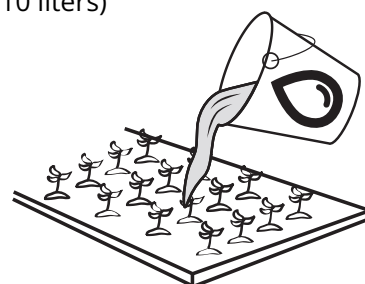
1

Mix **1 water** for **1 bioslurry**



2

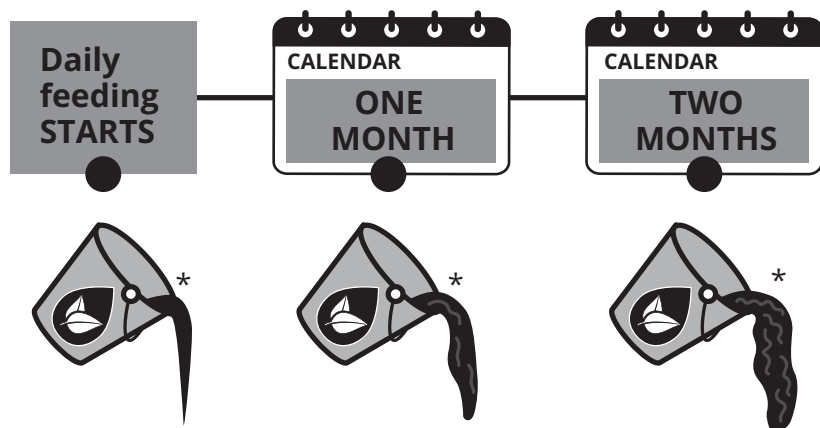
POUR: Apply 2 to 5 litres of bioslurry per square meter (when the bioslurry is diluted: 4 to 10 liters)



NOTE: Stop applying bioslurry at least **3 weeks** before harvest. Wash all fruits and vegetables well before eating.



Bioslurry CONSISTENCY



During the first 2 months, the bioslurry:

- is very watery
- can be smelly
- can attract mosquitoes

*The bioslurry **will** get **thicker** with time

Bioslurry STORAGE and COLLECTION

To prevent bioslurry accumulation and overflow, follow Scenario A or B.



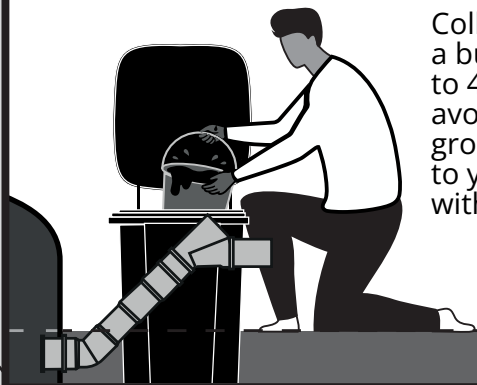
Your storage capacity depends on your climate:

- 6 days (hot climate)
- 9 days (temperate climate)
- 13 days (cold climate)

⚠ Safety Warning: Remember that any open pond with slurry or liquid must be protected with a fence.

Scenario A

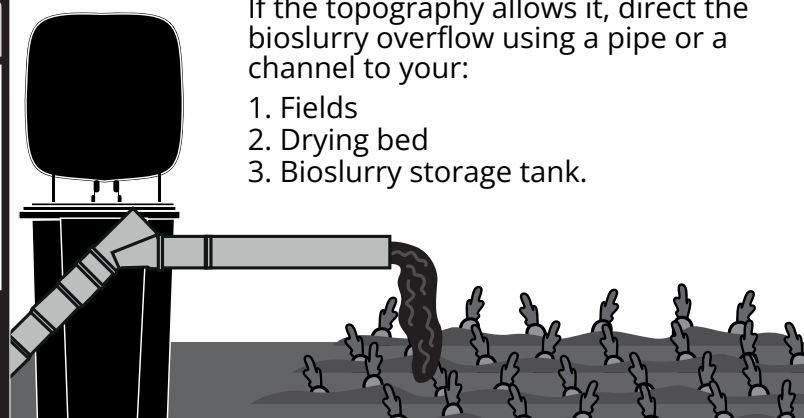
Collect bioslurry using a bucket or a pump, 3 to 4 times per week, to avoid overspilling on the ground. Apply it directly to your field or mix it with dry compost.



Scenario B

If the topography allows it, direct the bioslurry overflow using a pipe or a channel to your:

1. Fields
2. Drying bed
3. Bioslurry storage tank.





Bioslurry And Regenerative Agriculture

SISTEMA.bio®



1_Livestock integration

Rotational grazing allows farmers to copy natural herd movements, evenly spreading manure as fertilizer and preventing overgrazing. This enhances soil health, encourages vegetation growth, and helps trap carbon in the soil.



2_Biogas

A clean cooking solution that uses agricultural waste to produce renewable energy sustainably.



3_Bioslurry

It's a fertilizer that improves farming yields, soil structure, water retention, nutrients cycling and biodiversity.



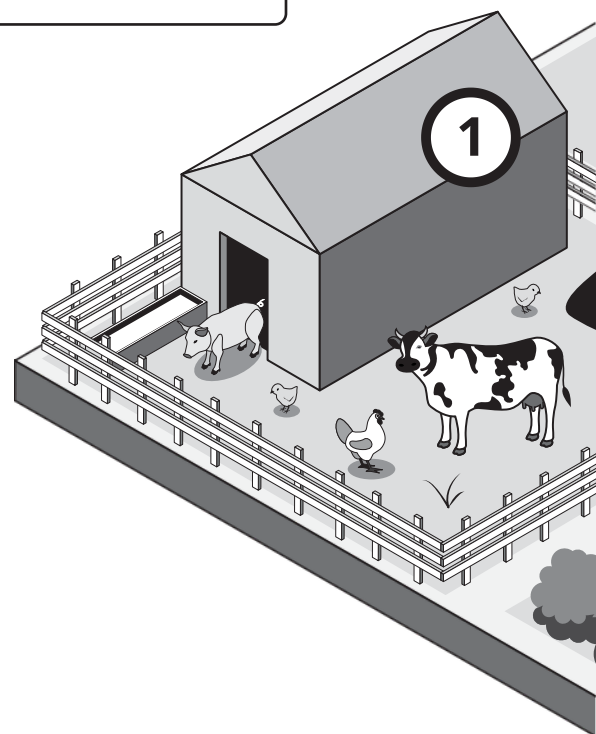
Chemical Use Reduction: Progressively reduce the use of chemical fertilizers and pesticide to conserve soil biology and build resilient soils.

Example:

Year 1: 10 to 20% reduction

Year 2: 20 to 40% reduction

Year 3: 40 to 60% reduction in chemical fertilizer



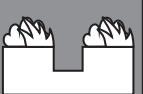
4_Water Management

Use water-efficient irrigation techniques to conserve water and minimize soil erosion. e.g drip irrigation, zaï holes (moisture retention pits) and rainwater harvesting.



5_Reduced/No tillage

Tilling will break soil structure. Instead, sow seeds with minor and superficial land preparation so as to reduce soil erosion, and soil disturbance to preserve soil biology.



6_Hedges and side Trenches

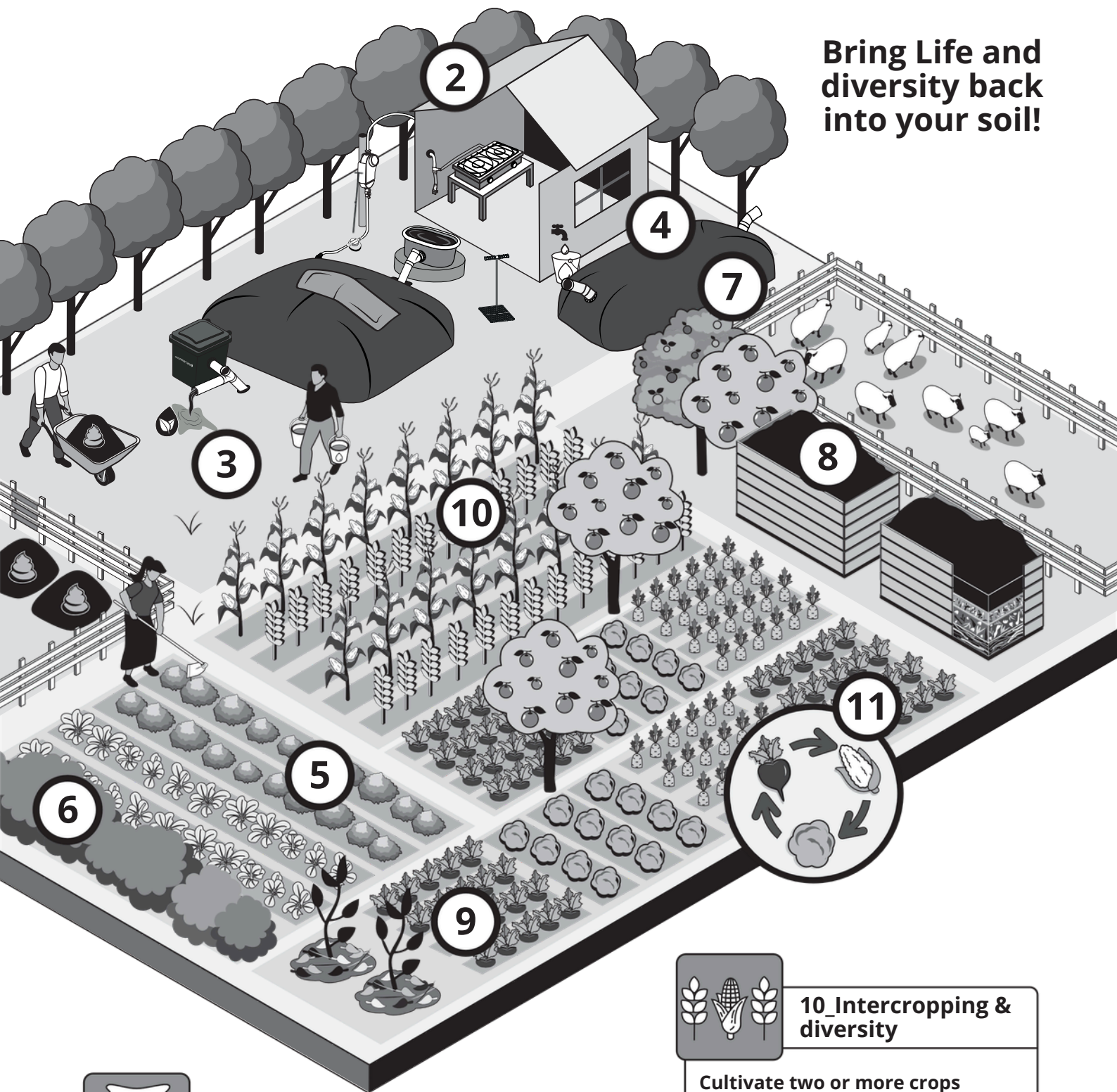
Plant hedges and make side trenches to improve biodiversity & water retention, and to prevent soil erosion.



7_Agroforestry

Incorporate indigenous fruit & nut trees to improve the farms biodiversity and generate income. Trees provide timber and shade, break the wind and improve soil retention.

Bring Life and diversity back into your soil!



8_Organic Compost

Use agriculture leftovers and green materials mixed with bioslurry to make organic compost.



9_Mulching/ Maintaining soil cover

Cover the soil around your plant with leaves and other organic material to preserve the soil moisture.



10_Intercropping & diversity

Cultivate two or more crops simultaneously on the same field to increase yield by utilizing resources better and control pests.



11_Crop Rotation

Plant different crops in the same area at different times to restore soil nutrients and grow more food.



Maximize Your Biodigester's Benefits

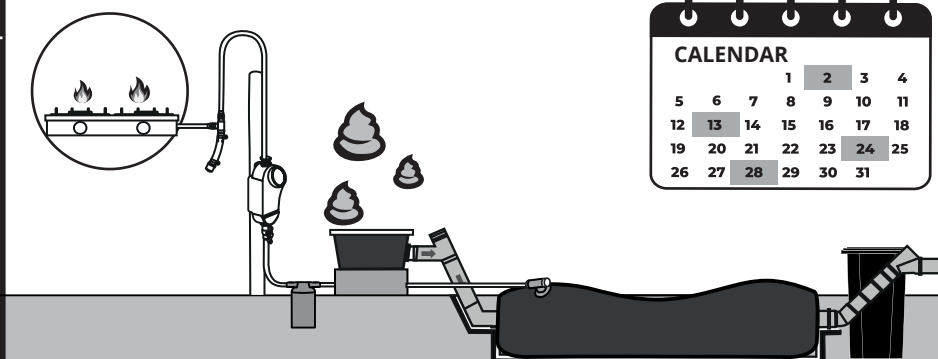
SISTEMA.bio®

FEEDING REGULARITY



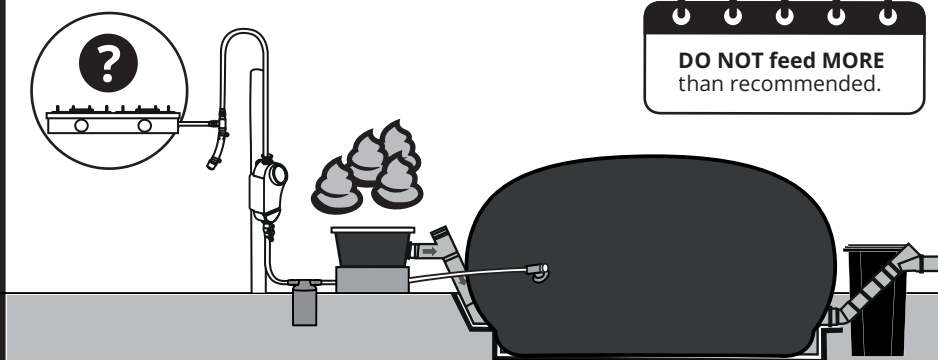
IRREGULAR FEEDING:

- Digester is starving
- Small flame



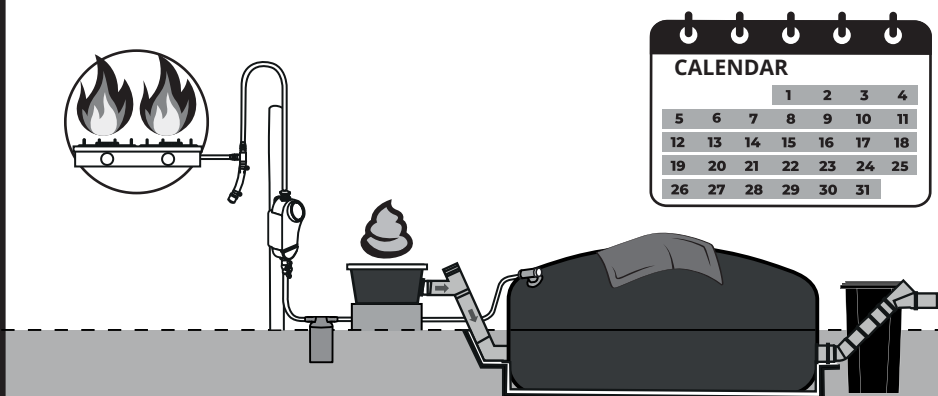
OVERFEEDING:

- Digester is too full of CO₂ and lacking CH₄
- NO flame



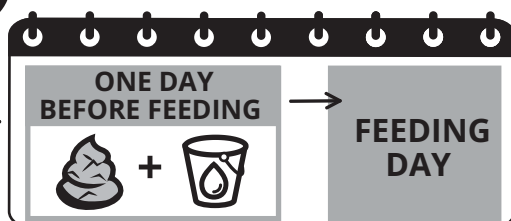
CORRECT FEEDING:

- Happy digester
- Beautiful flame

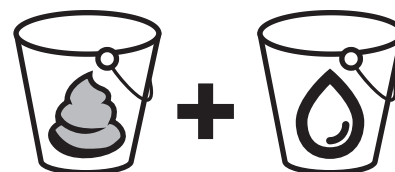


DRY DUNG

IF YOU HAVE DRY DUNG



1. ONE day before feeding: Moisten 1 volume dry dung with 1 volume of water, then top up with water to create the consistency of wet cow dung.



2. During feeding, do water dilution (1 volume of cow dung with 1 volume of water).

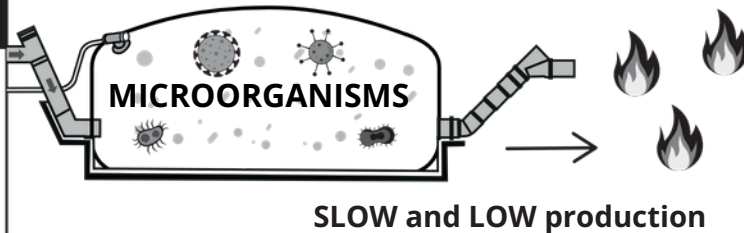


Maximize Your Biodigester's Benefits

SISTEMA.bio®

TEMPERATURE & BIODIGESTER PRODUCTIVITY

The **COLDER** the weather, the **slower and lower** the biogas production will be.



SLOW and LOW production

The **WARMER** the weather, the **faster and higher** the bacteria will produce more biogas.



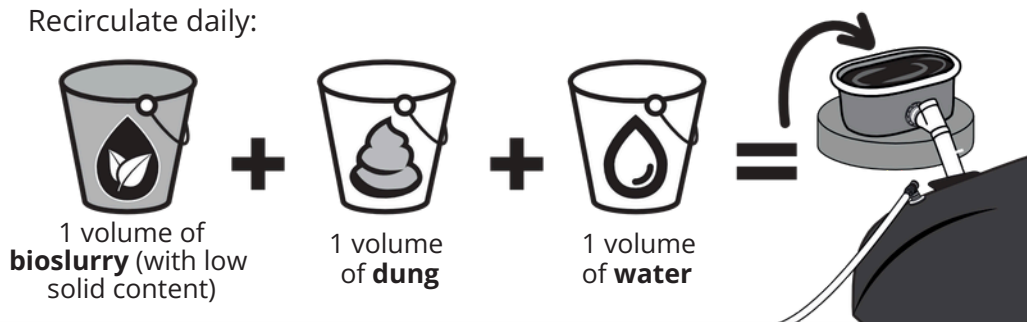
FAST and HIGH production

BIOSLURRY RECIRCULATION

This improves reactor performance in cold areas/ seasons and helps reduce water consumption.

FOR COLD CLIMATE AND TO REDUCE WATER CONSUMPTION

Recirculate daily:



If you recirculate bioslurry regularly, add water during the rainy season while mixing to dilute it. **Use 15% of the biodigester's volume** (e.g., for an S6 with 6000L, add 1000L).

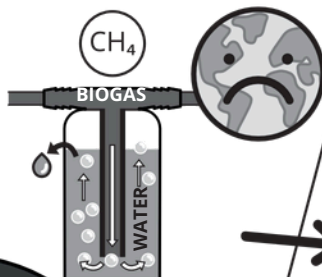
DO NOT LET YOUR BIOGAS ESCAPE



(TS10)



If your biodigester is very **inflated** and the **PRV is bubbling**:

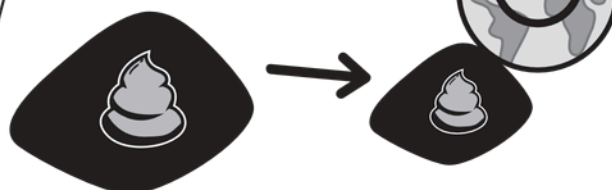


• **BURN** your gas so the PRV does not bubble anymore



OR

• **REDUCE** the feeding





Maximize Your Biodigester's Benefits

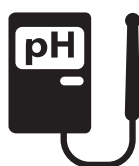
SISTEMA.bio®

ANIMAL DIET

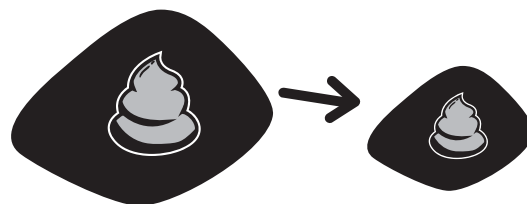
If your cows get rich food supplements, the **dung will be richer**, which will lead to **acidity in the digester**. Slightly reduce the feeding if such supplementing is happening!

If your cow diet gets richer (dairy meals for example), this will increase the quantity of H₂S in your biogas. **Contact us to adjust your biogas treatment.**

LOW



Reduce daily feeding

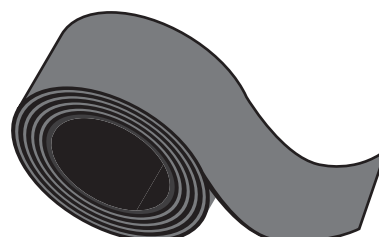


Spare parts

TRANSPARENT FLEXIBLE PIPE replacement: every 2 to 3 years approx. Contact Sistema.bio if you need replacement.



BUTYL TAPE for temporary membrane repair when external damage happens.





Biodigester Specifications

COMPONENT	MATERIAL	SPECIFICATIONS
Feeding tank	HDPE	110L
Dung mixer	Galvanized/Zinc Plated MS pipe	76 cm x 26 cm x 20.5 cm (h x l x w)
Unblocking tool	HDPE	1.7 m
Reactor	LLDPE	Refer to corresponding digester model
Bioslurry tank	HDPE	240L
Pressure relief valve	HDPE and UPVC	6" diameter, 20 mbar back pressure
Isolation ball valve	UPVC	1" diameter
Biogas filter	HDPE	48 mm x 18.5 mm x 20 mm (h x l x w)
Transparent / flexible gas line	PVC	1" diameter
Gas line	HDPE	1" diameter
Water trap	ABS and UPVC	1" diameter
Single burner (when applicable)	Cast aluminum	7 x 45 x 10 cm (h x l x w)
BioStove	Structure: stainless steel or coated mild steel Burner: Cast aluminum	BioStove-2: 19 x 58 x 36 cm (h x l x w) BioStove-3 SS: 10 x 57.5 x 27 cm (h x l x w)

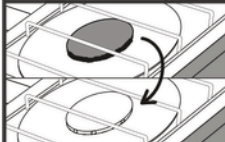
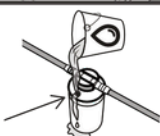
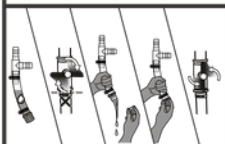
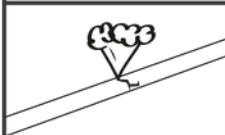
Note: Components might differ depending on the region and the local context of the project.

Digester 3.0 size							
Digester Weight (kg)	Sistema 6	Sistema 8	Sistema 12	Sistema 16	Sistema 20	Sistema 30	Sistema 40
	30	36	49	65	85	114	155



Maintenance And Care Plan

For **customer support** please refer to **page 48**.

IMAGE	ACTIVITY	VIDEO QR CODE		
	Feeding <i>(and removal of settled and floating solids)</i>			
	Use your biogas! So it does not bubble through the PRV!			
	Use your bioslurry! <i>(If you have extra, consider taking it to your fields to donate or sell to neighbors). Extract and apply bioslurry every 3 to 4 times a week or directly to the area of use/application or storage.</i>			
	Agitation of your digester to mix the floating layer with the slurry inside the digester			
	Check Water Accumulation in Gas Line			
	Cleaning the Burner <i>(on need basis)</i>			
	PRV Filling with Water			
	Water Trap Check			
	H2S Filter Media Regeneration <i>(Check for regeneration every month. Regenerate if the media is black)</i>			
	Media replacement <i>(Contact Customer Service to order new)</i>			
	Gas Line Leak Inspection			

O&M summary in the table

VIDEO NAME	UM PAGE	DAILY	2X A WEEK	WEEKLY	BIANNUALLY	ANNUALLY
OM8	14 & 15					
OM13, OM9, OM11, OM12, OM2, OM3, OM4, OM17, TS5 & TS13	21 & 29					
Bioslurry Manual (1), Bioslurry Protocols (2) & Sistema.bio fertilizer Uses Series (3)	24					
OM13	17					
TS1	17					
TS13	21					
OM1	22					
OM6	22					
OM5	23	On need basis - when media turns black				
Contact Customer Service to order new						
N/A	23					

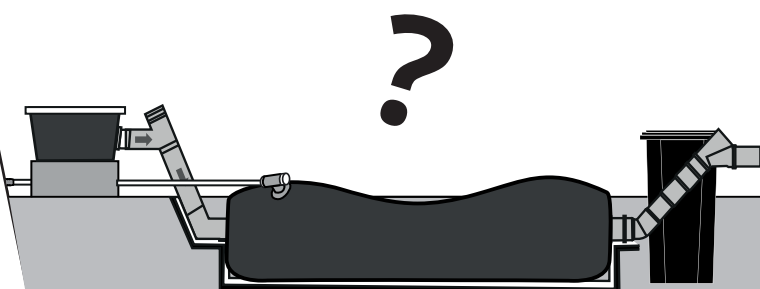
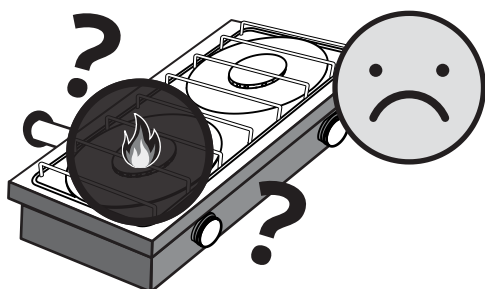


Basic Troubleshooting

SISTEMA.bio®

ISSUE:

- I do not have sufficient biogas to cook
- I do not have biogas in my BioStove, and my digester is flat!



• **Is there enough water in the inlet and outlet pipes?** Make sure they are filled so that biogas cannot escape. Refer to section **"Biodigester startup"** "Fill the reactor with water until water reaches the inlet and outlet elbows." on page 15. Videos: I3, I5.

• **Have you completed your first feeding?** Refer to section **"Biodigester startup"**, "First feeding" on page 16 & 17. Video: OM7.

• **Has enough time passed since the first feeding?** Refer to section **"Biodigester startup"**, "WAIT FOR THE REACTOR TO INFLATE" on page 18.

• **Are you following the feeding instructions?** Refer to section **"How to use your system"**, "Maintain your digester" on page 14 and **"Maximize the biodigester's benefits"**, "FEEDING REGULARITY" on page 30. Videos: OM7, OM8.

• **Is your pressure relief valve filled with water?** Refer to section **"How to use your system"**, "PRESSURE RELIEF VALVE" on page 24. Videos: OM2, OM1.

• **Were the BioStove valves, the water trap or the biogas filter left open?** Close them! Refer to section **"How to use your system"**, "FIRST BIOGAS FLAME" on page 23, "WATER TRAP CHECK" on page 24 and "HOW TO REGENERATE THE FILTER MEDIA" on page 25. Videos: OM6, TS12, OM5.

• **Is there a leak?** Refer to section **"How to use your system"**, "GAS LINE LEAK INSPECTION" on page 25.

• **Cold weather, rainy season?** You can recirculate your bioslurry to improve biodigester productivity during cold seasons. Refer to section **"Maximize the biodigester's benefits"**, "TEMPERATURE & BIODIGESTER PRODUCTIVITY" on page 31.

• **Are the burner and the BioStove installed in different rooms?** Check if somebody else is using the biogas!

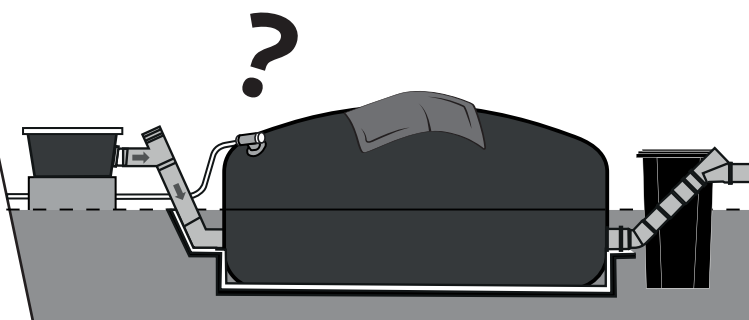
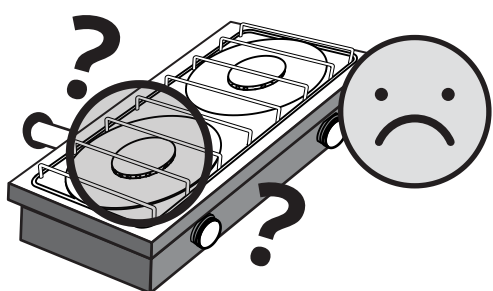
If your biogas production is still low: CONTACT CUSTOMER CARE - SEE PAGE 48.



Basic Troubleshooting

ISSUE:

- I do not have biogas in my BioStove or it does not light, and my digester is inflated!



• **Have you placed a counterweight on your digester?** Refer to section **"How to use your system"**, **"IMPROVE YOUR FLAME USING COUNTERWEIGHTS"** on page 23. Video: TS5.

• **Were the gas valves left closed?** Open them! Refer to section **"How to use your system"** **"Use the energy you produce and maintain your biogas line!"** on page 23. Videos: OM3, OM3bis, OM4.

• **Are you regularly draining your water traps?** Refer to section **"How to use your system"**, **"WATER TRAP CHECK"** on page 24. Video: TS3 & OM6.

• **Is your biogas line sagging?** In biogas line low points, water can accumulate and block the biogas from flowing! Elevate the gas line to direct the accumulated water towards the water trap or the PRV. Refer to section **"How to use your system"**, **"WATER ACCUMULATION IN THE GAS LINE"** on page 24. Videos: TS1, TS6.

• **Is the filtration media in the biogas filter blocking the biogas flow?** Follow the

protocol on page 23 **"How to regenerate filter media, or replace it by new one. Try to burn the gas on your BioStove!** Refer to section **"How to use your system"**, **"HOW TO REGENERATE THE FILTER MEDIA"** on page 25. Video: OM5.

• **Is the gas line folded at any point?** Inspect your gas line and make sure there is no blocking point.

• **If only 1 of the 2 BioStove burners does not have a flame,** the burner valve might be blocked. Contact Customer Care.

• **Are you overfeeding your digester?** Refer to section **"Maximize the biodigester's benefits"**, **"FEEDING REGULARITY"** on page 30. Measure the pH of the bioslurry from your outlet pipe using a calibrated pH meter (please follow pH meter calibration instructions). If the pH level of the bioslurry is low and you continue to feed your digester, it could stop the bacteria from producing biogas. This will lead to too much carbon dioxide and not enough methane.

If your biogas production is still low: CONTACT CUSTOMER CARE - SEE PAGE 48.

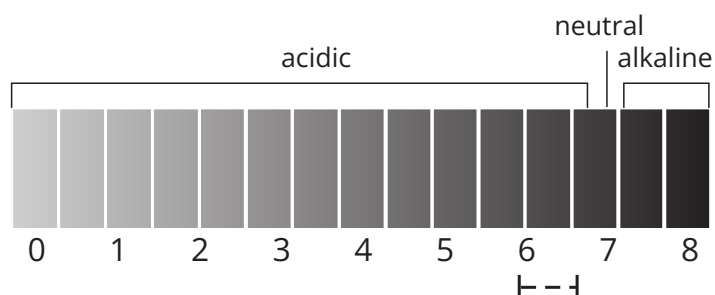


Basic Troubleshooting

SISTEMA.bio®

ISSUE:

- Slight acidification:
pH 6 to 6.5 & biogas
does not burn



1. Stop feeding the reactor & **empty** the digester of biogas through the biogas filter and stay away.

2. Agitate the digester thoroughly.
Video: OM13.

3. Let it rest for 3 days or until it inflates.

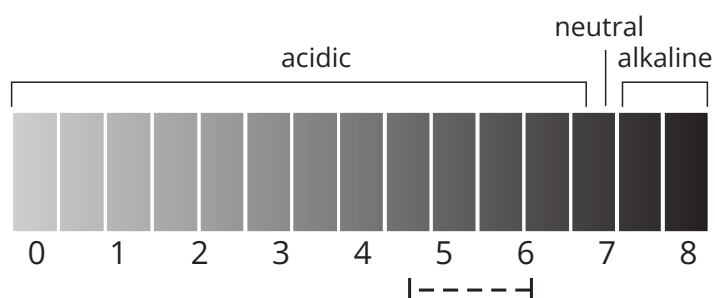
4. Try lighting the biogas stove.

5. If the gas does not burn, repeat from step 1.

If your biogas still does not light: CONTACT CUSTOMER CARE - SEE PAGE 48.

ISSUE:

- Slight acidification:
pH 4.5 to 6 & biogas
does not burn



1. Stop feeding the reactor & drain all the biogas through the biogas filter and stay away.

2. Agitate the digester thoroughly.
Video: OM13.

3. Empty at least half of the digester.

4. Refill the digester with:

A) water mixed with as much bioslurry as possible

B) water mixed with 5-10kg of limestone powder for a Sistema 6 (increasing

proportionally to the digester size).

5. Let it rest for 1-3 weeks or until it inflates.

6. Try lighting the BioStove.

7. If the gas does not burn, empty the digester of biogas through the biogas filter and stay away. Then let it rest for 1-3 weeks or until it inflates and produces a flammable gas.

If your biogas still does not burn: CONTACT CUSTOMER CARE - SEE PAGE 48.

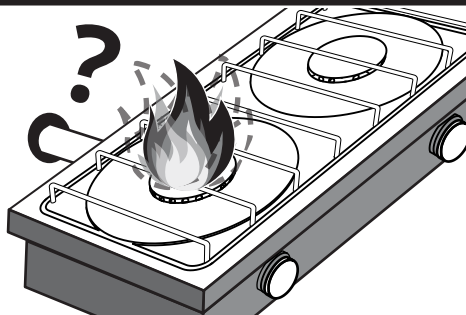


Basic Troubleshooting

SISTEMA.bio®

ISSUE:

- The flame in my BioStove is intermittent/dancing



There might be water accumulated somewhere in the gas line.

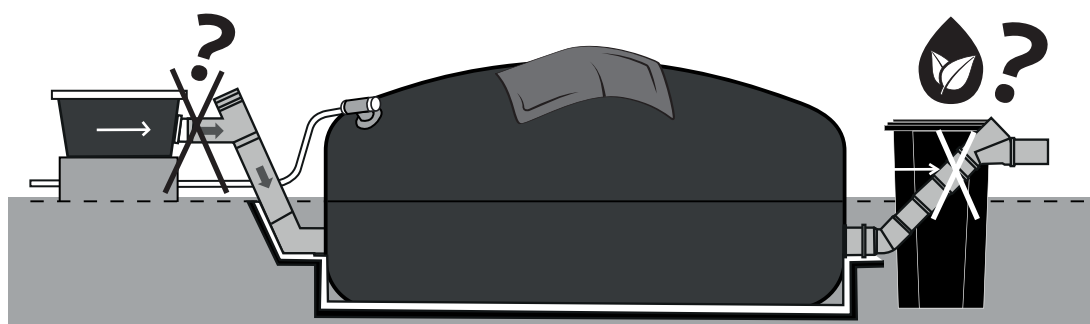
- **Is your biogas line sagging?** In biogas line low points, water can accumulate and block the biogas from flowing! Elevate the gas line to direct the accumulated water towards the water trap or to the PRV. Refer to section "How to use your system", "WATER ACCUMULATION IN THE GAS LINE" on page 24. Videos: TS1, TS6.

- **Are you regularly draining your water traps?** Refer to section "How to use your system", "WATER TRAP CHECK" on page 24. Videos: TS3, OM6.

If your biogas still does not light:
CONTACT CUSTOMER CARE - SEE PAGE 48.

ISSUE:

- The slurry is not entering the digester
- The bioslurry does not come out of the digester



- **If your bioslurry only comes out when the digester is inflated,** there is no problem!

- **Unclog your inlet or outlet pipes** from dry or solid material that may be blocking the flow. Use the unblocking tool provided or a thin, flexible stick (like bamboo) to unblock the pipe through the

Y fitting. Video: TS11.

- **Is the inlet pipe lower than the outlet pipe?** Elevate the feeding tank slightly by placing stones or soil under it. **If your slurry is still not flowing:** CONTACT CUSTOMER CARE - SEE PAGE 48.

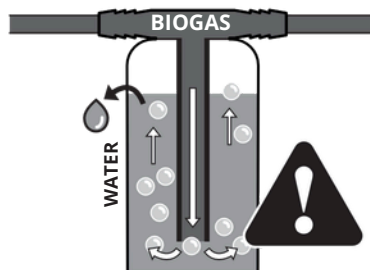


Basic Troubleshooting

SISTEMA.bio®

ISSUE:

- My pressure relief valve bubbles too often!

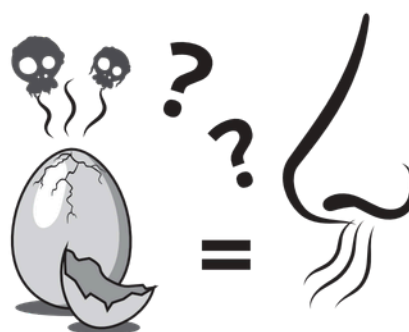
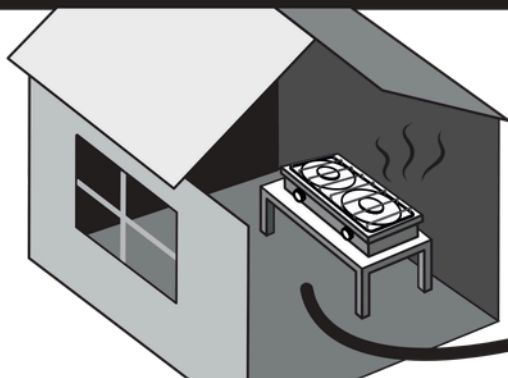


- **Are you filling your pressure relief valve regularly?** Refer to section “How to use your system”, “PRESSURE RELIEF VALVE” on page 24. Videos: OM2, OM1.
- **You might be producing too much biogas!** Please burn your excess gas or use it to warm water in a pan! If it still bubbles regularly,

- progressively reduce feeding. Refer to section “Maximize the biodigester’s benefits”, “DO NOT LET YOUR BIOGAS ESCAPE” on page 31. Video: TS10.
- If your digester still produces too much biogas: CONTACT CUSTOMER CARE - SEE PAGE 48.**

ISSUE:

- There is a gas/rotten eggs smell in the kitchen



- **Does it smell while you light your BioStove?** Do not wait long before presenting the match to the burner to limit the release of unburned biogas. Refer to section “How to use your system”, “IMPROVE YOUR FLAME USING COUNTERWEIGHTS” on page 23. Videos: OM11, OM12.

- **Are you frequently regenerating the media in your filter?** Refer to section “How to use your system”, “HOW TO REGENERATE THE FILTER MEDIA” on page 25. Video: OM5.

- **Were the BioStove valves, water trap or biogas filter left open or not properly closed?** Close them! Refer to section “How to use your system”, “FIRST BIOGAS FLAME” on page 23, “WATER TRAP CHECK” on page 24 and “HOW TO REGENERATE THE FILTER MEDIA” on page 25 Videos: OM6, TS12, OM5.

- **Is there a leak?** Refer to sections “How to use your system”, “GAS LINE LEAK INSPECTION” on page 25 and “Safety”, “Biogas” on page 13.

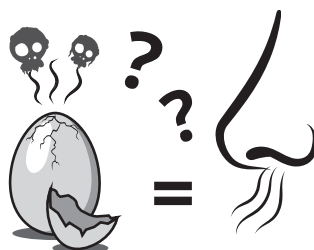
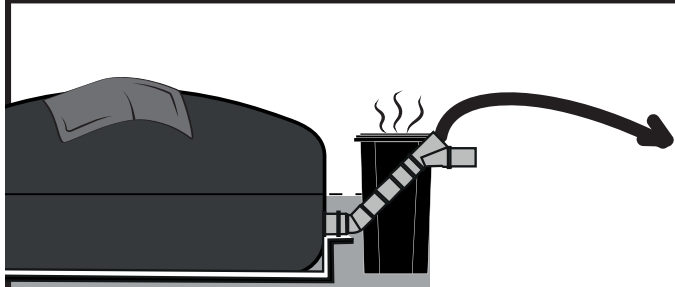
If you still detect a biogas smell in your kitchen: CONTACT CUSTOMER CARE - SEE PAGE 48.



Basic Troubleshooting

SISTEMA.bio®

ISSUE: • There is a gas/rotten eggs smell near the digester



• **Can you see water in the inlet and outlet? pipes** Make sure they are filled so that biogas can't escape. Refer to section **"Biodigester startup"** "Fill the reactor with water until water reaches the inlet and outlet elbows." on page 15. Video: i3.

• **Is your pressure relief valve filled with water?** Refer to section **"How to use your system"**, "PRESSURE RELIEF VALVE" on page 24. Videos: OM1, OM2.

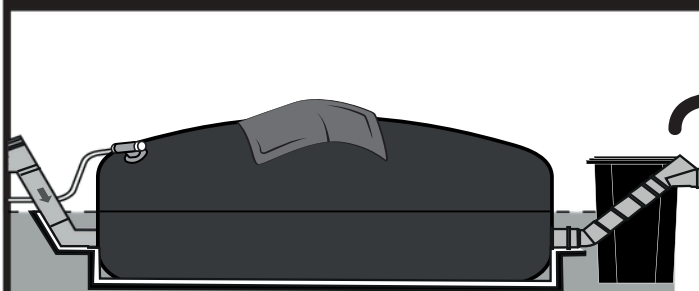
• **Is there a leak?** Refer to section **"How**

to use your system", "GAS LINE LEAK INSPECTION" on page 25.

• **Is your biogas filter properly tightened and with the filter gasket?** Refer to section **"How to use your system"**, "HOW TO REGENERATE THE FILTER MEDIA" on page 25. Video: OM5.

Is the transparent pipe between the digester and the filter cracked? CONTACT CUSTOMER CARE - SEE PAGE 48.

ISSUE: • My bioslurry stinks!



• **Are you overfeeding your digester?** Refer to section **"Maximize the biodigester's benefits"**, "FEEDING REGULARITY" on page 30, and follow the instructions page 40 and page 20. Measure the pH of the bioslurry from your outlet pipe using a calibrated pH meter (please follow pH meter calibration instructions). If the pH level of the bioslurry is low and you continue to feed your digester, it could keep the bacteria from producing

biogas: too much carbon dioxide and not enough methane.

Are you feeding your digester with organic waste other than animal dung? Some wastes are too rich to be properly digested and require specific control of the feeding quantities! CONTACT CUSTOMER CARE - SEE PAGE 48.



Disposal

- The **packaging** of your biodigester kit is **recyclable**. We recommend you to take it to the nearest **recycling center or equivalent***.
- Used **ferrosorp** from the filtering media can be disposed of in the bin or added to **compost to enrich it with iron and sulphur** -shred first!
- Once the **20 year lifetime** of your **digester is over** and it is no longer in use, take its **components** to a **local recycling center**.

- If you **need information on recycling centers**, feel free to call us.



*The deactivated filter media should be **handled with caution as it can take fire**. Kept away from flammable material and quickly applied to soil to minimize the risk of fire. Follow instructions page 25.



Details To Keep In Mind

Technician's name:

Installation date:

Type of feedstock
fed to the digester:

Daily volume of feedstock
to be fed to the digester:

Dilution:

Serial number:

CLIENT SIGNATURE
acknowledging
training reception:

[illegible]

[illegible]



Monitoring And Service Visit Schedule

MONITORING VISITS	
MONITORING 1 (M1)	
Date of Visit	
Technician Name	
Instructions Given to Client	
Client Signature	
MONITORING 2 (M2) WILL BE DONE REMOTELY/ ON THE PHONE	
Date of the Call	
Customer Agent Name	
Instructions Given to Client	
Client Signature	
MONITORING 3 (M3)	
Date of Visit	
Technician Name	
Instructions Given to Client	
Client Signature	

For **customer support** please refer to **page 48**.

SERVICE VISITS	
SERVICE VISIT 1 (SV)	
Date of Visit	
Technician Name	
Instructions Given to Client	
Client Signature	
SERVICE VISIT 2 (SV)	
Date of Visit	
Technician Name	
Instructions Given to Client	
Client Signature	
SERVICE VISIT 3 (SV)	
Date of Visit	
Technician Name	
Instructions Given to Client	
Client Signature	



About this section.

This section provides a general summary of the warranty. Detailed terms and conditions are defined in the user and partner contracts, which take precedence.

WARRANTY PERIOD

The Seller gives a warranty of one (1) year starting on the date of installation, applicable when there is any damage in the material and manufacturing process of the Sistema.bio components. Further, the Seller gives a warranty of ten (10) years exclusively for the geomembrane of the digester starting also on the date of installation.



For the black membrane of the biodigester!

WHAT IS COVERED BY THE WARRANTY?

It is important to note that the warranties do not cover any damage caused by any negligence of the Buyer, accidents, vandalism, alteration of the Sistema.bio components by the Buyer or abnormal storage and or non-compliance, on the part of the Buyer, with the risk and prevention instructions and with the user manual.

The warranties herein above are limited to repairs, replacement or product change and/or raw materials in general, labor and transportation expenses. The Seller's liability to the Buyer shall not exceed the cost of the product. The Seller shall not be liable for consequential losses in any form.

RESPONSIBILITIES BEFORE INSTALLATION

In the period between delivery and installation (Pre-Installation), the farmer or implementation partner shall be responsible for the safe custody of the unit and all its components.

Any damage occurring during this time including but not limited to rodent bites, physical breakage, environmental exposure, or natural disasters will not be covered under warranty. If any component is found to be damaged or missing, mishandling, lost, stolen, or tampered with prior to installation, the cost of repair or replacement shall be borne by the farmer or the partner.

Sistema.bio reserves the right to inspect and verify the claim before approving any replacement or repair. The decision of the Sistema.bio will be final and binding in all warranty-related matters.



At Sistema.bio, your safety and well-being are our top priorities

Your Safety and Feedback Matter. If you ever experience or witness a safety problem, risk to your health, unfair treatment, or any other concern related to the biodigester system or the way our team works with you, please let us know. Please report your concern*.

Important Safety Notice

Your safety is very important to us. We strongly recommend that you read and follow all safety instructions in this user manual and use the biodigester system as described.

If you choose not to follow these instructions, the company cannot accept responsibility or liability for any accidents, injuries, damage to property, or other harm that may occur.



How To Report A Concern*



We're here to listen, act, and ensure everyone stays safe. Don't hesitate to reach out!

1. CONTACT US:

• Global Customer Success

Email: customersuccess@sistema.bio

• Customer Care, India

Email: customercare.india@sistema.bio

Phone: +91 9607606660

• Customer Care, Africa (Kenya & Uganda)

Email: customercare.africa@sistema.bio

Phone: +254 711 082888

• Customer Care, LATAM

Email: atencionalcliente@sistema.bio

Phone for Mexico: +52 1 55 9199 2411

Phone for Colombia: +57 310 3482 564

• Website Request Form

You can also directly submit a request on our website.



2. ANONYMOUS REPORTING

You can also submit an anonymous report through our online form.





SAFETY IN THE KITCHEN



RISK OF TOXICITY AND DEATH DUE TO Hydrogen Sulphide (H₂S)

If inhaled in long term, it can lead to breathing difficulties, illnesses and death.

PREVENTION

- Frequently **regenerate or replace the filter medium** in the biogas filter as instructed in the User Manual.
- **DO NOT release too much unburnt gas to flow** for long before lighting the fire.
- Put ignition source on the stove and then turn on gas knob for gas to flow
- Conduct frequent **biogas line checks**.
- A biogas leak gives an **unpleasant smell** like **decaying matter or rotten eggs**.
- Once a leak is detected indoors, **LEAVE** the house as there is risk of toxicity and **CLOSE** the isolation valve to **STOP** the biogas flow.



IF YOU NOTICE A FOUL SMELL (*ROTTEN EGGS*)

- Open the windows and doors and get out of the house.
- If eye irritation, coughing, shortness of breath, nausea, and headache are severe, call emergency services.

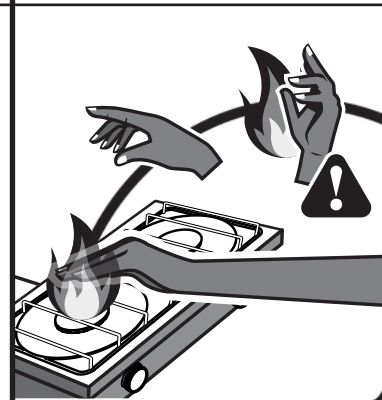
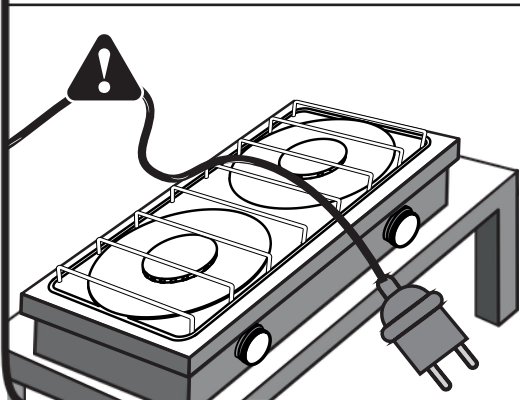


RISK OF FIRE AND BURNS

DO NOT let any wires or connections go over the stove. Place the BioStove on a solid and a steady surface.

DO NOT place curtains or any other inflammable object near the flames.

BE CAREFUL while using the BioStove as you can burn yourself.



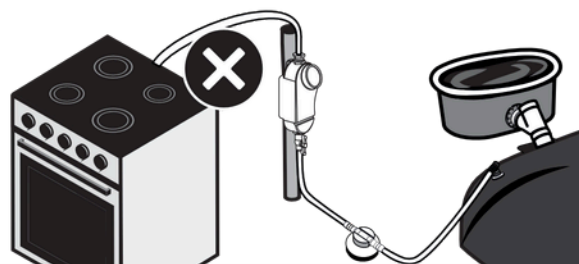
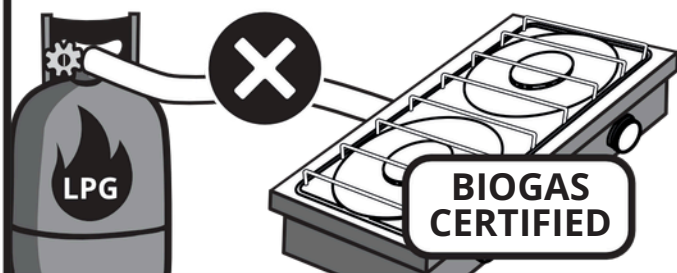


Safety Advice For Farmers

SISTEMA.bio®

DO NOT connect the BioStove to any gas source other than the biodigester.

DO NOT connect the biogas line to a natural gas stove.



IN CASE OF FIRE

- CLOSE the isolation valve to STOP the biogas flow.
- Evacuate the area.
- If safe to do, fight small fires using water or a fire extinguisher if available.

IN CASE OF A BURN

- Run cold water over the burnt area.

Call for Help: Call emergency services if symptoms are severe.

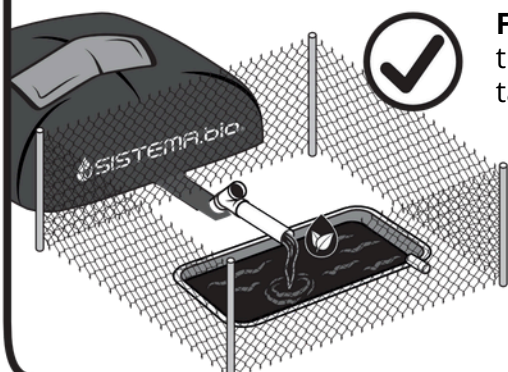


SAFETY AT THE BIODIGESTER



RISK OF DROWNING

PREVENTION



Fence or cover the bioslurry tank at all times.



DO NOT leave children unattended around the biogas system and the bioslurry tank.





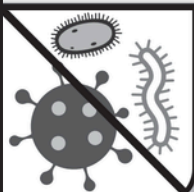
Safety Advice For Farmers

SISTEMA.bio®

IN CASE OF AN ACCIDENT



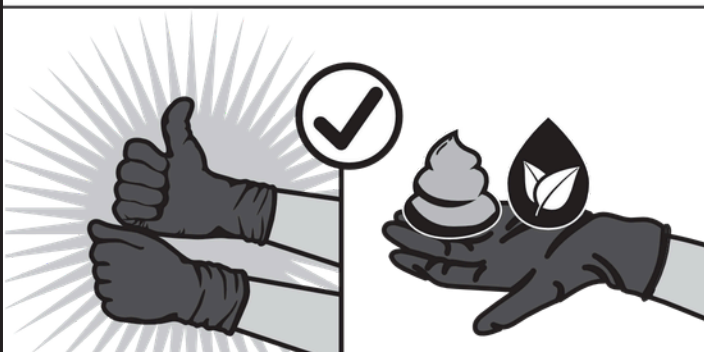
In case of falls into the bioslurry tank, help retrieve the animal/person from the pit and provide first aid assistance, then seek medical help immediately.



RISK OF INFECTION DUE TO PRESENCE OF BACTERIA IN BIOSLURRY AND MANURE

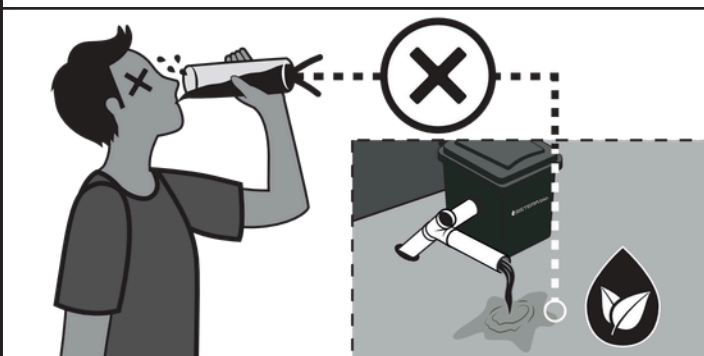
Use gloves when handling manure and bioslurry

Wash your hands with soap and water



DO NOT drink bioslurry

Wash your vegetables



IN CASE OF EXPOSURE TO BIOSLURRY



General Safety Tips

- **Wear Protective Gear:** Always use gloves when handling manure and bioslurry.
- **Emergency Contacts:** Keep a list of your local emergency numbers in an accessible location e.g. hospital, clinic, dispensaries and fire engines where applicable.
- **For SKIN contact:** Wash the area with soap and water for at least 3 min.

- **For EYE contact:** Use clean water and rinse for 5 min.
- **If ingested or inhaled:** Seek medical help immediately.

In case of such incidents, please contact Sistema.bio using the customer care number provided in Page 48.



Customer Care

SISTEMA.bio®

IMPORTANT!

Please remember to call us when:

- When you change phone number, so we can update your latest phone number and keep close communication with you!
- When the status of your digester has changed, for example: if your digester does not work anymore and needs servicing, or if you do not use your digester anymore!



THANK YOU FOR KEEPING CLOSE COMMUNICATION WITH US!



Local Sistema.bio Customer Care

Please refer to **page 48** to get the regional and global customer care phone numbers and email addresses.



If you have any issues, please contact Sistema.bio Customer Care. Scan the QR code to see the up-to-date list of regional phone numbers and emails on our website.

sistema.bio/for-farmers/#contact-customer-care

Sistema.bio User Manual 3.0

3rd Edition, 2026. All rights reserved © 2026 Buen Manejo del Campo, S.A. de C.V.

Av. Álvaro Obregón 213, Roma Nte., Cuauhtémoc,
06700 Ciudad de México, CDMX.

www.sistema.bio

This work, its edition, and its characteristics are the property of Buen Manejo del Campo, S.A. de C.V.

Reproduction, in whole or in part, direct or indirect, in Spanish or any other language, is prohibited without the prior express written authorization of the owner of the intellectual property rights, as provided by the Federal Copyright Law. Made in Mexico.



FOR MORE INFORMATION, VISIT

www.sistema.bio

#CreatingValueFromWaste

 www.sistema.bio

 [Sistema Biobolsa / Sistema.bio](#)

 [Sistema_bio](#)

   [Sistema.bio](#)

