



 support@homebiogas.com  www.homebiogas.com



INSTALLER GUIDE

Take your installations
to the next level

 support@homebiogas.com  www.homebiogas.com

HOMEBIOGAS®

THE ESSENTIAL CLIENT CHECKLIST



Before the installation, we need to ask the customer the following questions:

1. Full name & Address?

.....

2. Help the customer choose a suitable location:

1. Is there a place in the sun for the HomeBiogas system?

We recommend a minimum of 6 hours of direct sunlight (depending on local climate).

Suggest to always have an alternative location in mind.

2. What is the pipe length between the HomeBiogas system and the stove location?

- The maximum length will always be up to 40 meters. We highly recommend making it shorter. To increase the flow and pressure, the 10 mm pipe should be as short as possible. The shorter the pipe, the better performance of the stove.

3. Where will the stove be located? Indoor or outdoor?

We recommend indoor to not depend on the outdoor conditions.

4. Is there a water source?

Make sure there is enough water to fill the system:

HBG 2 – 1200 liters
HBG 4 – 2600 liters
HBG 7 – 4300 liters

5. If there is no water available on-site, there are alternatives such as:

- Using a water pump to pump from a close water point.
- Storing water in a place higher than the system.
- Bring stored water in a truck or IBCs.

6. Is there a water hose available?

If not, bring one.

7. Are there any trails on the way?

- We recommend to avoid the gas pipe crossing any walking trail to prevent the pipe damage.
- If yes, excavations are needed. Bring the correct tools. Remember that the gas pipe needs to go at an angle to avoid condensed water accumulation in the pipe.
- There is an alternative: to install gas pipe above the ground (section 9)

8. How close can a car get to the place where the system will be installed?

It should be as close as possible since the manure buckets and tools are heavy (or if a water truck is needed).

9. What are the kitchen walls made from?

10. What challenges could the gas pipe have?



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PRE-INSTALLATION







Before installation we need you to check that you have done all of the following tasks:






1. Check that all the questions in section 1 are answered.
2. Bring extra BOX A and BOX B.
3. (Recommendation) If you have a cylinder/roll of 20mm pipe, bring it.
4. Bring a correct tool to drill the kitchen walls
5. Arrange all the tools needed (section 3)
















INSTALLER DRESS CODE AND EQUIPMENT CHECKLIST

	Explanation	Name	Amount	Must have
		HomeBiogas shirt	2 units	<input checked="" type="checkbox"/>
		Work Pants	2 units	<input checked="" type="checkbox"/>
		Rain boots	2 units	<input checked="" type="checkbox"/>
		Toolbox	1 unit	<input checked="" type="checkbox"/>










	Explanation	Name	Amount	Must have
	Connection to bits	18V impact drill	1 unit	<input checked="" type="checkbox"/>
	Cut wood and metal	jigsaw with batteries	1 unit	<input checked="" type="checkbox"/>
	Drill walls and concrete	18V hammer	1 unit	<input checked="" type="checkbox"/>
	Connection to butterfly drill and small screws	18V screwdriver/drill	1 unit	<input checked="" type="checkbox"/>
		battery 18V 5 AMP	2 units	<input checked="" type="checkbox"/>








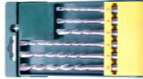


	Explanation	Name	Amount	Must have
		Set of bits + extenders	2 units	
		Bit extender	3 units	
		Flat screwdriver	1 unit	✓
		Phillips screwdriver	1 unit	✓
	For 20mm bands	T. 6	2 units	✓

	Explanation	Name	Amount	Must have
	For 38mm band	T. 7	2 units	✓
	For 110mm band and 38 mm band	T. 7	2 units	✓
	For gold band and installation of suspended gas pipe	Plier	1 unit	✓
		Hammer	1 unit	✓
	Open water connections	Plier Type Patents	2 units	✓
	Clear HBG surroundings	Secateurs	1 unit	✓



	Explanation	Name	Amount	Must have
	Cut 20mm and 10mm pipes	Pipe Cutter	2 units	
	Clear HBG surroundings	Wet wood saw	1 unit	
		Jigsaw raker	5 units	
		Set of butterfly drills / cup 16 and 22 mm Drill cup 44 mm - Only for Toilet Installations	1 unit	 
		Screws	1 bag	
		Screw anchor	1 bag	

	Explanation	Name	Amount	Must have
		90 angle screw adapter for screwdriver Only for Toilet Installations	1 unit	 
	Concrete drill	14 mm diameter concrete drill bit- 40 cm long suitable for hammer	2 bag	
	Concrete drill	16 mm diameter concrete drill bit- 40 cm long suitable for hammer	2 units	
	Wood drill	Set of 6-16 wood drills adapted for impact	1 unit	
	Metal drill	Set of iron drills 6-16	1 unit	
		A set of 6-12 concrete drill bits adapted to the hammer	1 unit	














	Explanation	Name	Amount	Must have
		Large + medium zip tie	1 bag	✓
		STAR 13-23mm clamp	50 units	✓
		10mm Squeeze gold clamp	10 units	✓
		STAR 105-127mm clamp	1 unit	✓
		Plastic pipe clamp for 20 mm	Potex 100	

	Explanation	Name	Amount	Must have
		U Clamp for ground fixation	20 units	✓
	Write installation date on HBG gas filter	Markers	2 units	✓
		Liquid Soap	1 unit	
		Level 1.2 m	1 unit	✓
		Tape measure (meter)	2 units	✓
		Sand Bag X56 for HBG7- 2L	1 unit	✓
























INSTALLER DRESS CODE AND EQUIPMENT CHECKLIST

	Explanation	Name	Amount	Must have
		Sand Bag X40 for HBG2- 1L	1 unit	✓
		1.5 m leveling board	1 unit	✓
		Rake	1 unit	✓
		Hoe	1 unit	✓
		Shovel	1 unit	✓

	Explanation	Name	Amount	Must have
		Brown Nut Lock Grip 20mm	50 units	✓
		Gray Nut Lock Grip 20mm	50 units	✓
		3/4 Thread T connector	15 units	✓
		3/4 Thread L connector	15 units	✓
		3/4-3/4 Thread Valve	15 units	✓
		Reducer 20 mm to 10 mm	5 units	✓




	Explanation	Name	Amount	Must have
		Straight connector 20-20mm	10 units	
		90-Degree Connector 20-20mm PP	10 units	
		20mm T connector	10 units	
		Lip Seal 110mm	10 units	
		Connectors to a local pipe to fill the system	2 units	


	Explanation	Name	Amount	Must have
	Open pipe blockage	Stalband Only for Toilet Installations	50 units	 
		Lighter	1 unit	
		Stabilizer rope 4mm	2 units	
	Cut 38 mm pipe and rigid pipe for underground gas pipe installation	40 mm pipe cutter	1 unit	 
	Drill wood, plastic or drywall 5-30mm	Cone Drill	1 unit	

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APPROPRIATE INSTALLER ATTIRE AND VEHICLE EQUIPMENT



 Use HomeBiogas T-shirts, work pants and shoes

 Organize your tools to be able to find everything easily



 Organize the car to be able to find everything easily

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CHECK THE DIFFERENCES



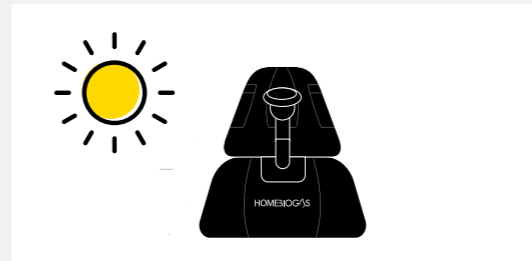
On the Field – check the differences between the pre- installation plans and the on-site reality:

1. Choose the best location according to section 6
2. Check the stove location and all the gas pipe path
3. Check the availability of water, sand, and electricity (for electrical tools, if needed)
4. Map all the gas pipe. Start from the stove and finish on the HomeBiogas system. Check where the drainage kits will be installed (lowest points).

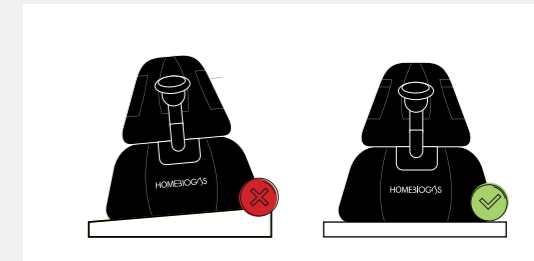


6

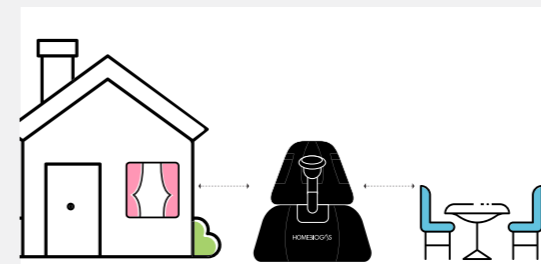
HOW TO CHOOSE THE BEST LOCATION FOR THE SYSTEM



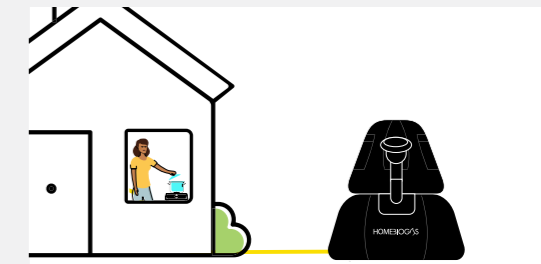
Sunny area



Leveled, firm, and flat area



The system “feels” better not close to windows and sitting areas



Close to the kitchen and in a comfortable place for daily usage

Check that there are no sewage pipes, water pipes below the system, or electrical boxes/tools within 5m radius.

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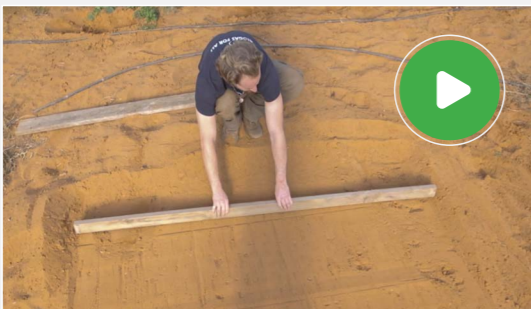
LEVELED AREA



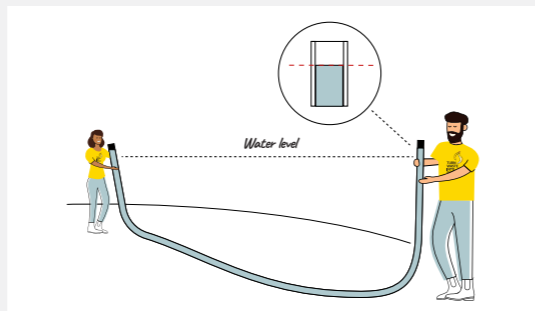
Make sure the area is leveled, firm, flat, and stabilized:

- HBG 2 - 2 x 3.3 meter
- HBG 4 - 2.5 x 4.2 meter
- HBG 7 - 2.7 x 5.2 meter

There are two options to level the area:



With garden tools



With water level

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INSTALL THE HOME BIOGAS SYSTEM



Assembly video:

0:23 Check there are no parts missing

0:42 Pull the digester cordsute

0:47 Put rubber rings on inlet and outlet flange

0:55 Put rubber rings and lubricate pipe

1:12 Insert inlet and outlet pipes to the digester

1:33 Connect bottom sink cords

1:55 Fill the system with water

2:18 Lubricate and connect sink pipe and upper cords

3:00 Connect outlet cord

3:47 Add sandbags

4:15 Remove filter stickers and insert it

4:30 Connect T-connector

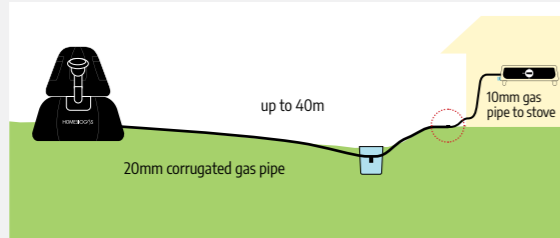
4:53 Gas pipe installation

7:15 Stove connection

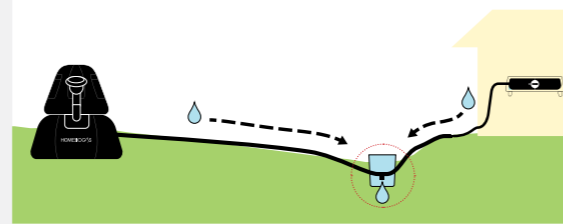
GAS PIPE INSTALLATION CRITERIA AND GUIDELINES



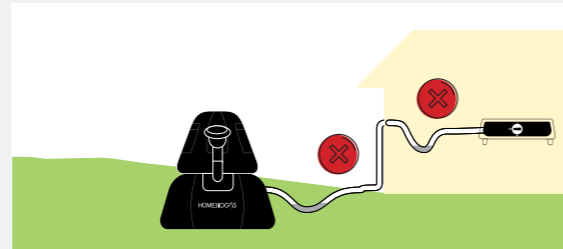
1. Start installation from the stove.
2. The 10mm gas pipe is meant for indoor use and should be installed as close to the stove as possible.



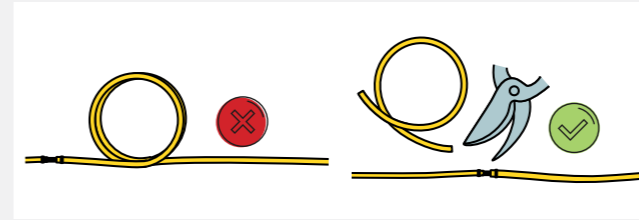
3. Gas pipes should be at a continuous and slight angle so that the water will flow towards the lowest point. Water drainage should be on the lowest points.



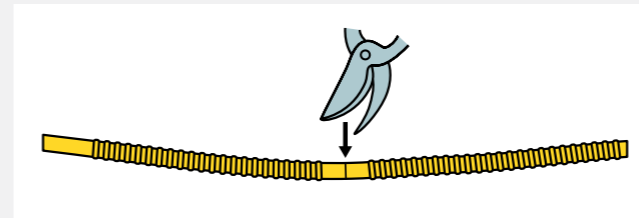
4. All gas pipes should be stretched out/straightened along their routes. There should be NO U-shaped bends along the pipe, where water will collect and block gas flow.



5. Cut gas pipe to the length required: do not coil the excess.



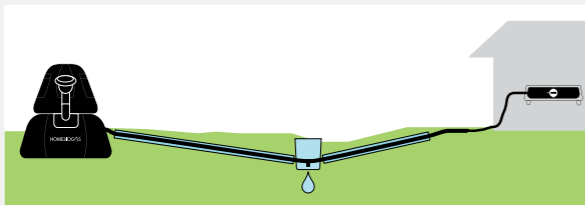
6. Cut 20mm corrugated gas pipe at the middle mark of the smooth sections along the pipe





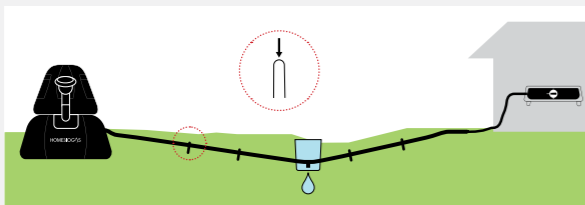
Choose the installation method most suited to your system's location and surroundings:

1. Gas pipe installed underground



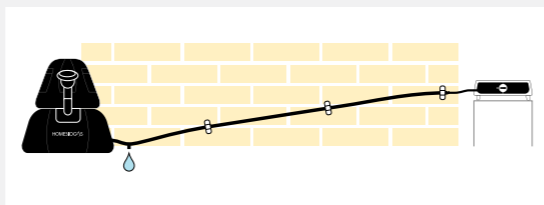
Pass gas pipe through a rigid pipe (PP/PVC 40mm) for protection

2. Gas pipe above-ground

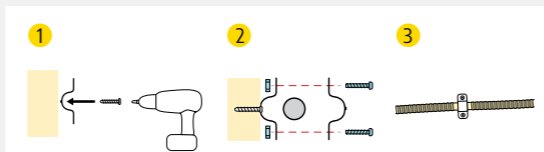


Anchor gas pipe to the ground with U-stakes provided.

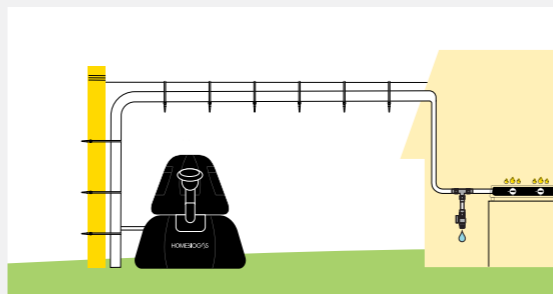
3. Gas pipe fixed onto wall or nearby structure



Use the pipe clamps provided to secure gas pipe to the wall on every 4th smooth interval (105cm) - purchase suitable anchoring screws for each set of clamps. Use screw anchors for concrete or brick surfaces.



4. Gas pipe suspended on overhead line



Install poles/structures of the required height, if necessary. Securely attach strong cable/rope/wire across the poles - take care to maintain constant slope across the line, with no low points. Suspend gas pipe from the line with wire at 50cm intervals (smooth sections of the pipe).



CHECK YOUR INSTALLATION



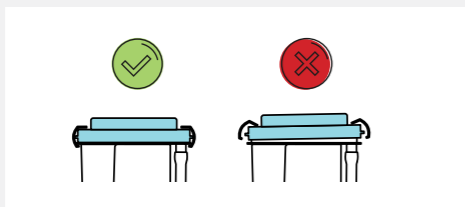
Please check your system according to the following list.

Confirm each item has been completed.

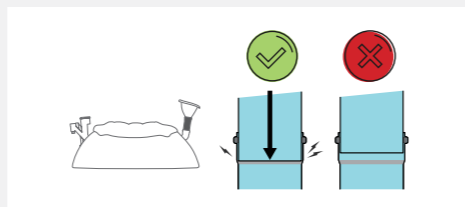
This will ensure your system functions smoothly and prevent potential system damage.

Check with a ✓ once the step is completed

- Gas Outlet Cap is pushed down completely and locking clips are fastened



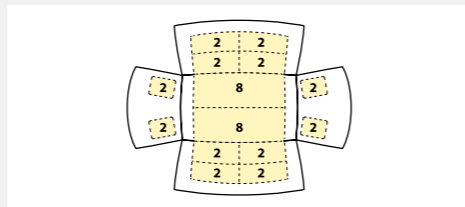
- Waste inlet & Combined outlet inserted completely



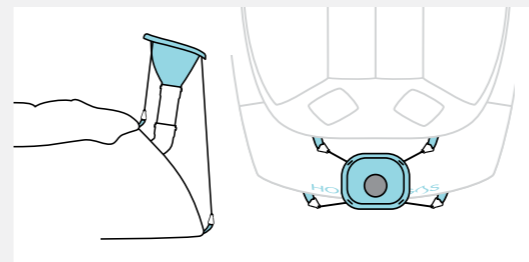
- Waste inlet & Combined outlet inserted completely



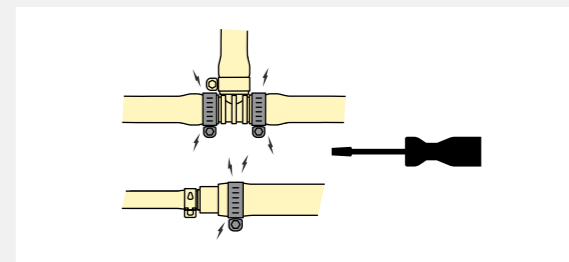
- Waste inlet & Combined outlet inserted completely



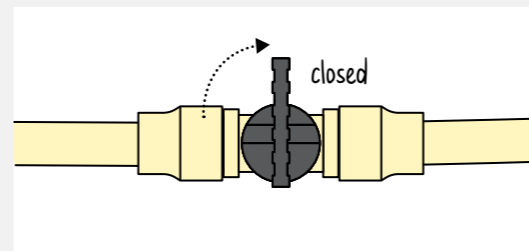
- Sink anchoring cords correctly attached



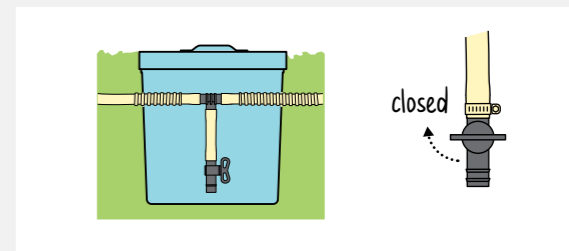
- Steel bands on 20mm gas tube securely tightened



- Gas valve closed (until activation complete) & gas valve on the ground level



- Water Drainage Outlet valve closed

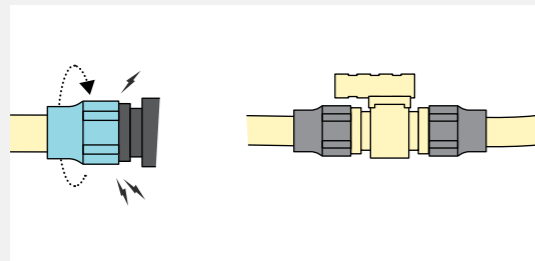


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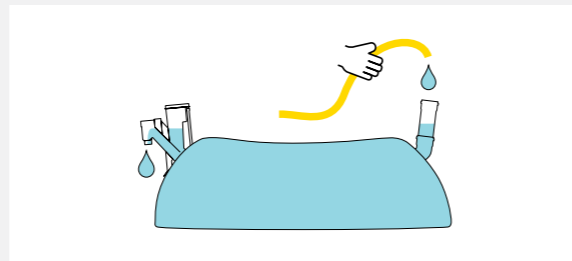
CHECK YOUR INSTALLATION



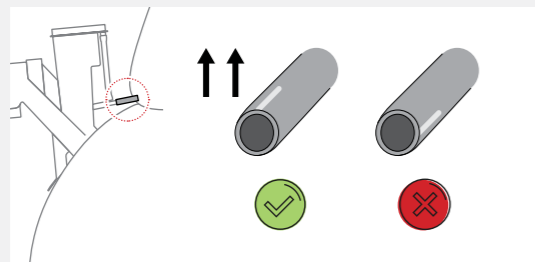
All gas connectors screwed tight



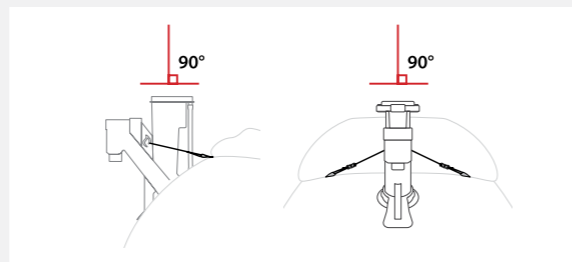
Digester filled until water flows from fertilizer outlet



Marking on Gas Tank Outlet pipe is facing upwards



The combined outlet is aligned 90° vertically and not leaning in any direction



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CUSTOMER INSTRUCTIONS AFTER THE INSTALLATION



HOMEBIOGAS 2
DAILY USE

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DAILY USE

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BIO-TOILET

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Register and document the installation using HomeBiogas' WhatsApp Bot.

Add this number to your contact list:

+972 52-2953740

[Follow registration steps here >](#)

