

Bionova

Self-Contained Composting Toilet

Bionova Cabin & Cabin Plus

USER MANUAL



Welcome to the Bionova family !

We are happy that you have chosen our product. At Bionova, we have been developing toilet solutions that are not limited by the availability of water or sewage systems for over 20 years, with the vision of contributing to a higher quality of life for many.

Today, our toilet solutions make the lives of hundreds of thousands of people easier all over the world. It is very important to us that the toilet solution you have chosen is of a high quality, has a high degree of reliability, and requires minimal maintenance.

We hope that you enjoy your new product while saving our planet loads of water.

Welcome to the Bionova family !



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what's in the box?

This box contains:

- The toilet
- The user manual
- Carbon-rich Material with shovel
- Nature microbe mix with scoop
- Bottom non-slip pad pack
- Prevent cold sticking water bottles
- Warranty sheet
- Urine container with lid

The vent kit contains:

- Ventilation pipes, white pipes: 6 pcs x 675mm
- Outside pipe, black pipes: 2 pcs x 675mm
- Insulation: 2 pcs x 675mm
- Reduction coupling: 55/110 mm
- Roof flashing
- Insect netting

Extra accessories

(not include but you can shop on www.bionovatoilet.com)

- 30° and 40° pipebends
- Insulation
- Additional vent piping
- Carbon-rich Material (wood shavings)
- Nature microbe mix
- Wet bath cover
- Additional urine container
- Moisture-proof storage bucket

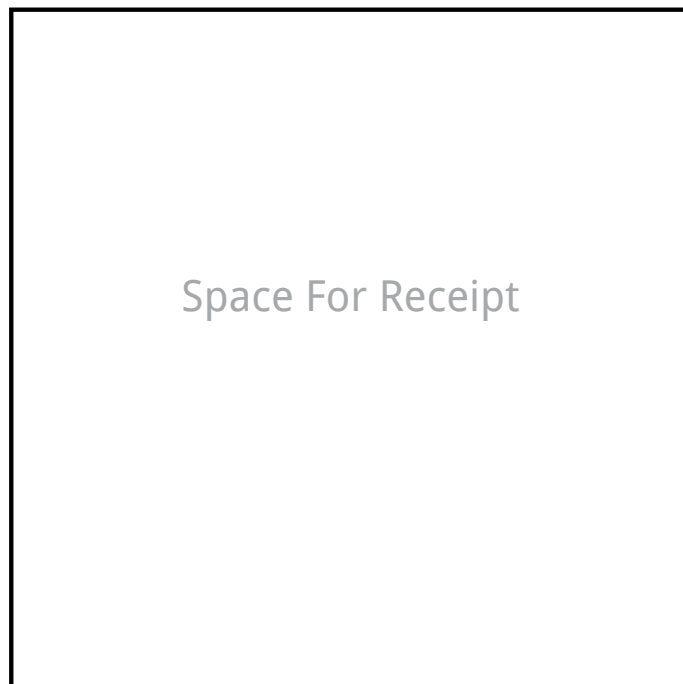
Warranty

This product has a 3-year warranty for manufacturing and/or material defects.

However, this warranty does not apply to normal wear and tear, incorrect use or maintenance, or if the customer has damaged or altered the product in any way.

If you have any questions regarding spare parts or warranty, please contact your nearest Bionova dealer, which you can find at www.Bionovatoilet.com.

Keep Your Receipt



IMPORTANT SAFETY INSTRUCTIONS



READ THE INSTRUCTIONS CAREFULLY BEFORE USE. THE MANUFACTURER IS NOT RESPONSIBLE FOR ANY PERSONAL INJURY OR OTHER DAMAGES ARISING AS A RESULT OF FAULTY INSTALLATION OR IMPROPER USE. SAVE THE USER MANUAL FOR FUTURE REFERENCE!

Safety

This product can be used by children and people with impaired physical, sensory or mental capacity, as well as people with a lack of experience and knowledge of the product, provided that they are monitored or instructed on how to use the product safely and understand the risks that are associated with improper use.

- Toilet packaging and packing materials are not toys. Keep packing material out of reach for children and dispose of it properly.

WARNING! Do not use the toilet if it is damaged or not working properly.

Ensure the functioning of the toilet by regularly checking the following:

1. That the urine container is correctly positioned
2. Whether the mixer is working properly
3. That there is no damage to any load-bearing parts
4. That there is no damage to the cabling
5. Check whether the exhaust fan works properly

Avoid fire risk & burns

The toilet must only be used in accordance with the user manual. Materials not associated with normal toilet use should not be thrown in the toilet. Ensure that all new users of the toilet receive required information on how to use it safely. The toilet is not designed for standing or climbing on. Young children or children who cannot safely use the toilet in accordance with this manual should only use it under adult supervision. Do not allow children to play with this product.

Avoid electric shocks

1. Never use a damaged power cord or plug, and never run the cord over hot surfaces or hard sharp edges.
2. If the power cord is damaged, it must be replaced by the manufacturer, its service agent, or a professional to avoid danger.

Other

- This product is intended for household use only or for a limited number of people with good knowledge of its proper use. We advise against placing urine-diverting toilets in public restrooms.
- Do not make any changes to the product that will alter its specifications.

Cabin & Cabin Plus

The BIONOVA Cabin & Cabin Plus are fully automatic, self-contained and continued biological toilet systems. This means that the waste finishes composting within the unit without having to be set aside in another position.

The composting process takes place using nature's own microorganisms, without the need for any chemicals. Controlled air supply and heat, as well as regular mixing of the compost, accelerates the composting process and converts toilets waste into eco-friendly humus.

- **The Cabin** is suitable for up to 3 people.
- **The Cabin Plus**, with a urine separator, is suitable for 3-5 people.



Cabin

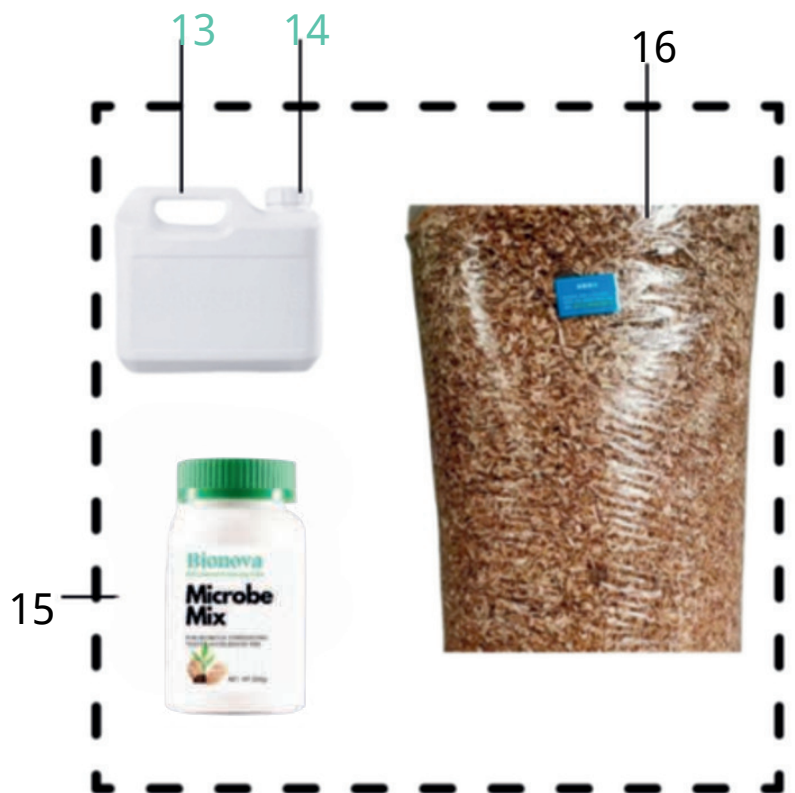
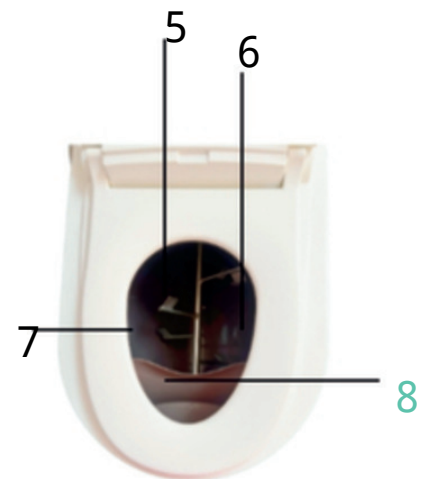


Cabin Plus

The two models are identical in shape and size, but the Cabin Plus has urine separators, urine collectors, and catheters whereas than the Cabin

Technical data

- | | | |
|--------------------|-------------------------|-----------------------------|
| 1. Lid | 6. Strirrer | 11. Bar code |
| 2. Body | 7. Temperature detector | 12. Power connection |
| 3. Control panel | 8. Urine separator | 13. Urine container |
| 4. Seat | 9. Fan | 14. Lid for urine container |
| 5. Compost chamber | 10. Ventilation outlet | 15. Compost microbe mix |
| | | 16. Carbon rich materia |



Measurements

Height: 51 cm (20.0")
Length: 60 cm (23.6")
Width: 47 cm (18.5")
Seat height: 42cm (16.5")



Material

Outer material: High-gloss polypropylene
Inner material: Polyamide and polypropylene

Weight

25 kg (55 lbs)

Volume

Urine container: 5 L
Solid waste container: 20 L

Pipe dimensions

Ventilation pipe: Ø 50 mm (outer diameter)

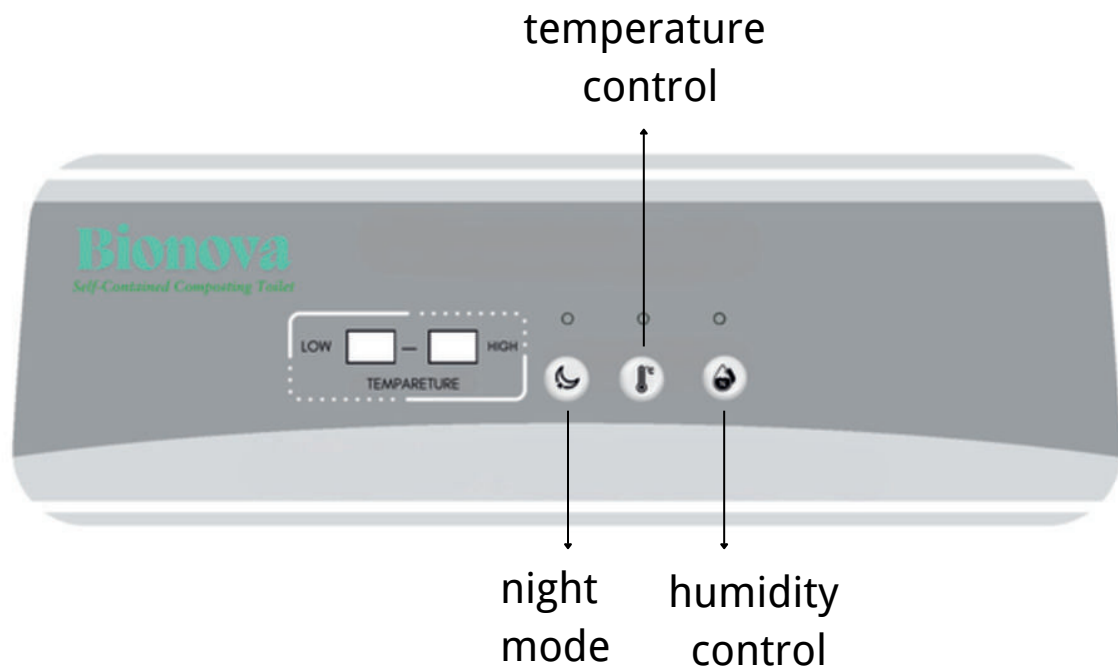
Electrical connection

Grid connection: AC adapter 110/240 V-12 V (1.55 m / 5.1 ft)
Low-voltage connection: 12 V battery cable (1.9 m/6.25 ft)

Power consumption

0.04 kwh/day, 14 kwh/year

Settings



The fan, stirrer, and heater all stop working, and the equipment enters silent mode



You can choose from five temperature ranges; once the heater is triggered, the temperature in the compost bin will be controlled within the set temperature range.



The fan, the mixer and the heater start working to heat and evaporate excess liquid in the compost bin to reduce humidity

Introductions for using your Bionova Cabin

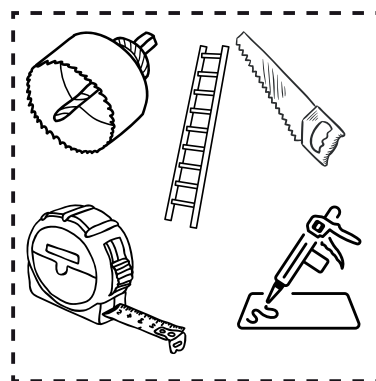
01 Installation



> You will need the following:

Tools required

- Hole saw 50 mm ($1^{31/32}$ ") or jigsaw
- Saw
- Measuring tape
- Asphalt sealant/adhesives
- Ladder



Space required

- Position the unit on a level surface, leaving enough space.
- Check that the floor space is large enough. Required floor space is: width 47cm ($18^{5/8}$ ") x length 60 cm ($23^{1/2}$ ")
- Position the unit on a level surface leaving spaces
- Keep in mind you will need a 240V power point available somewhere near the unit.
- Be mindful of how the vent is to be installed, as this may impact windows, etc.

> Pipe installation

The entire pipe, from the ceiling and up through cold areas such as attic, must be insulated. This is to prevent condensation in the ventilation pipe and to increase natural draught. Insulation is essential, no matter how much or little the toilet is used, even if the toilet is used only in summer. **Do not use bends more than 45°**

1. Set the toilet in position against the wall. The floor must be even and insulated.
2. Measure and make a hole for the ventilation pipe in the ceiling, with a diameter of 50 mm ($1^{31/32}$ ") . Install the ventilation pipe with the non-sleeved end down inside the rubber coupling on the toilet.
3. Measure and make a hole in the roof with a diameter of 50 mm ($1^{31/32}$ ") diameter.
4. Push the pipe up through the hole. Seal it well using asphalt sealant between the pipe and the roof to prevent any leaks.
5. Insulate the pipe from the ceiling up to the top. All pipework in cold spaces must be insulated.
6. Cut the exterior pipe to fit the angle of the roof.
7. Place the roof flashing on the exterior pipe. (use soapy water to make it easier). If you have a tin roof, it is best to get a sheet metal worker to make a junction between the roof and the exterior pipe.
8. Pass the exterior pipe over the ventilation pipe's insulation. Put on the reduction coupling.
9. Adjust the roof flashing and seal firmly with asphalt sealant between the roof flashing and the roof.
10. Fit the insect netting against the stop on the reducing coupling.

02

Starting an empty toilet

1. Open the toilet lid and pour about 2/3 of the carbon-rich material into the compost bin. Add the material over the agitator.




2. For initial use, pour out approximately 4 scoops (about 50g) of the microbe mix, dilute it with roughly 200ml of water, and pour it into the toilet composting chamber to start using it.



3. Plug the power plug into the socket, and close the toilet seat. The toilet will automatically start stirring and exhaust functions, indicating that the toilet is functioning normally.



4. Set the heating control  to the desired level. If you're confused about temperature control, check out www.bionovatoilet.com



03

Use

Always sit down when using the toilet. Sit a little further back than usual so that urine and solid waste are separated.



1

Separate urine as much as possible during use, but don't be too strict -just relax and enjoy yourself!



2



3

Toilet paper that meets the requirements can be decomposed with solid waste.

4



Close the toilet lid and allow the mixer, exhaust fan, and temperature control functions in the compost bin to operate.



IMPORTANT!

Never throw burning or smoldering objects into the toilet!

04


Maintenance

> Add Extra Microbe Mix

If composting results are not satisfactory, you can add around 1-2 scoops (approximately 15-30 grams) of the microbe mix compost accelerator to promote the rapid breakdown of organic matter.



> Humidity control

Pay attention to the humidity in the compost bin during use, if the humidity is too high, you can press the "dehumidification" key  to control the it.


> Daily supplement of bedding material

In daily use, if the Carbon-rich Material is found to be less than the agitator, or if the degradation effect is poor, it can be appropriately supplemented to increase the degradation effect.



(You can find this material container (with spoon) on Bionova's website.)

> Night mode

To be more energy efficient and keep quiet, it is recommended that you press "night mode"  before going to bed, and the toilet will stop working until your next use.

> Prepare for brief absences

If you are away for more than two days, turn the power off; otherwise, the compost will become hard and dry. If there is a lot of liquid, for example, after heavy use, you can leave the toilet running for a limited period (approximately one week).

>At the end of the season

When the season is over and it is time to leave your cottage, unplug the toilet and put the cover in the seat opening. You can also turn off the heat in the toilet room, as the Bionovo Cabin does not freeze or break.

>New season approaching

When the season is approaching and it is time to open up your cottage, it is also time for the Bionova Cabin to be used again after a long break. Check if the compost has become hard. If so, this means that the carbon-rich material has failed; Please clean out the failed material and replace the new gasket in time for use. The finished bedding can be used as organic fertilizer.

05

Cleaning

Bionova Cabin should be cleaned with an environmentally friendly non-abrasive cleaner. This toilet is made of a strong, high-gloss polypropylene material that risks being scratched if an abrasive cleaner or scrubbing pad is used.

We recommend using vinegar concentrate diluted with water (1 part vinegar to 7 parts water) for cleaning the toilet, the integrated funnel in it, the solids container, and the canister. Rinse the urine canister with the solution after each emptying to prevent the formation of urine scale and unpleasant odors. If deposits or odors have already formed, table vinegar can also be used undiluted. Make sure to use undiluted vinegar only in the canister and avoid letting it run through the lid membrane to avoid premature wear.

Cleaning with pure water is not recommended, as this can cause the formation of odors and urine scale. For simple, natural cleaning of all individual parts of the separation toilet, PH neutral cleaners and agents with effective microorganisms are also suitable.

Contact Us

Documentation

This user manual, as well as instructional videos, are available at any time on our website. If you need help with your toilet, you can find information at any time on our website, where you can also easily submit error notifications.

Can't find what you are looking for? Visit the "FAQs" section on our website to find the answers to the most frequently asked questions. If you do not find an answer to your question, please feel free to contact us:

Website: www.bionovatoilet.com

Email: cecilia@bionovatoilet.com

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