

USER MANUAL Version 1.9 FOR A BETTER TOMORROW III



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Caring for the environment, everyone's responsibility.

The Ecofrog project was born in 2015 as a solution to a growing demand of our society in recent years: the creation of cleaning systems that are environmentally friendly and healthy for their users. Despite the fact that a priori cleaning systems, by nature and definition, should be environmentally friendly and healthy for living beings, most of the solutions applied are not. What is more, a large part of these solutions generate polluting discharges into our rivers and seas, causing increasingly significant environmental problems in quantitative and qualitative terms. But also problems with the health of their users, whether they are families or cleaning professionals.

Ecofrog Official defines the business activity of the Ecofrog project. It brings together the manufacture, import and marketing through its network of exclusive distributors and importers at national and international level.

The exclusive ECOFROG cleaning system consists of the generation of ozone and its instantaneous dissolution in water. The resulting product, ozonised water, cleans, disinfects, degreases and deodorises. It is sustainable and therefore environmentally friendly.





Welcome to the Ecofrog family!

Today, Ecofrog has a range of products capable of covering multiple needs:

In this manual we present Avatar, our flagship, with multiple applications in the professional field.

In the same line, we have more models to cover different needs:

- **Wash by Ecofrog**, the perfect complement to Avatar so that it can be used in industrial dishwashers.

for use in industrial dishwashers.

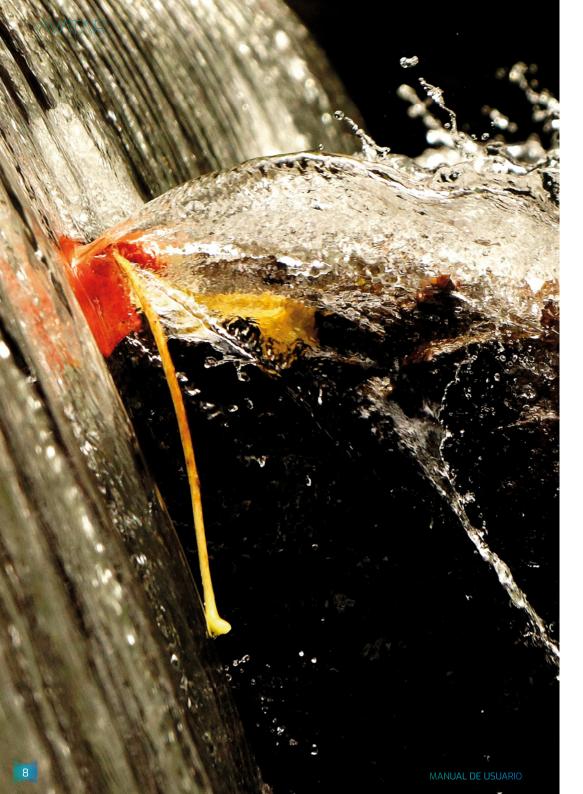
- Elektra, intended for mainly domestic use.
- **Commercial Purifier**, for industrial environments with higher flow rates.



REDUCE | REUTILIZA | RECICLA

Find out all the information through the social networks of Ecofrog Official:

- www.ecofrog.es
- in @ecofrog
- @ecofrog.oficial
- **f** @EcoFrog.Oficial



The Ecofrog system

The effectiveness of the Ecofrog system, applied in the domestic sphere, has allowed the project to be developed in other professional channels and areas. These sectors, with different needs and requirements to those of the domestic sector, require an urgent shift towards sustainable and healthy cleaning and disinfection. Hotels, restaurants, hospitals, schools, geriatric centres, laundries, spas, gyms and other businesses are already benefiting from this technology for the immediate generation of ozonised water.









Savings

Sustainable

Harmless

Logistics

For a better tomorrow



Ozone technology and its properties

Washing with ozonised water is the most effective method of disinfection, with the additional advantage of not generating additional advantage of not generating chemical spills.

The properties of ozonated water guarantee the reduction of viruses, bacteria and other pathogens on surfaces and industrial machinery.

What is ozonated water?

Ozonated water is the result of generating ozone (O3) "in situ", whose molecule is composed of three oxygen atoms and its immediate dissolution in water.

Properties:

- > Cleans and degreases all types of surfaces.
- > High disinfectant power for all types of non-porous surfaces.
- > No chemical residues.
- > No rinsing required.
- > Does not leave odours.
- > Acts in less time than other chemical products due to its high oxidising power.

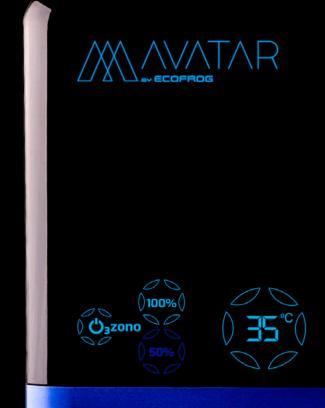
The entire Ecofrog product range generates ozone, which is injected into the water. This mixing of the gas with the water, thanks to our technology, significantly increases the natural stability of the ozone, making it possible to clean and disinfect. Due to the disinfectant nature of ozone, the ECOFROG system also allows a significant reduction in the consumption of chemical products in general and a practically complete reduction of microorganisms in the disinfection of surfaces.

*Bactericidal activity test no. 492324 carried out in the laboratory by ACONSA at a maximum water temperature of 35°C.

^{*}Accreditation standard UNE-EN 13697:2015 + A1:2020 (bactericidal, fungicidal) and UNE-EN 14476:2019 + A2 (viricidal).

Notes and preliminary considerations on this handbook

- 1.- Always keep the manual in a place where it can be accessed whenever you need to consult it.
- 2.- Before using the product, read the manual carefully and follow all instructions and safety measures specified therein.
- 3.- The manual describes the performance of the product in detail, so the company is not responsible for any other uses that the end consumer may make and that are not described in this product manual.
- 4.- Our company is not responsible for any damage resulting from misuse of the product that is not indicated in the manual, or for failure to comply with the safety and prevention measures indicated in the manual, or for an operating error in accordance with the instructions in this manual.
- 5.- Do not disassemble, repair or modify this product, or tamper with it, as any action of this type will result in the loss of the product warranty. In case of failure or problem with Avatar, please contact your nearest distributor or the official ECOFROG technical service by calling +34 93 114 06 17. Under no circumstances remove or break the warranty seal of the product, since any manipulation of the same will result in the loss of the product warranty.
- 6.- Keep the Avatar packaging for a period of 14 calendar days to return the product.
- 7.- Do not use or insert a power adapter other than the one originally supplied by our company for this equipment, as its use could cause permanent damage to the unit's circuits during use.



MANUAL DE USUARIO



- 8.- The manufacturer shall not be held responsible for any damage or malfunction that may occur due to any kind of impact or blow that the product may have received once it has been delivered or installed by the official service.
- 9.- Our company is not responsible for any loss, direct or indirect damage caused by users or third parties due to incorrect use of Avatar.
- 10.- The contents of this manual may be subject to change without notice. You can always find the latest version of the manual published in this QR code:

International



Content of the packaging

In the product box you will find the following items:

- Avatar.
- Avatar protective case designed as a multipurpose bag.
- Explanatory sheet to download the user manual.
- Mounting bracket for hanging Avatar.
- Mounting screws and plugs (6 mm Ø).
- 1 Power transformer.
- 1 Hose for water supply 3/4".
- 1 Tap.
- 11/2" tap connector.
- 1 Tap bracket with screws and plugs.



Uses of the product

Avatar is an environmentally friendly device with multiple applications. It is easily connected to the washing machine, in the kitchen, or in any other area with electrical and water outlets. Once in operation it will dissolve ozone in tap water providing its biocidal qualities.

Thanks to Avatar's double water outlet, it can also be used as a dispenser for cleaning and disinfecting floors, glass, worktops and surfaces in general. Once extracted from the generator in its vaporiser, we can remove dirt and disinfect 99.9%* of the non-porous surfaces treated.

The ozone generated by Avatar is immediately dissolved in the mains water. Once extracted from the generator in its vaporiser, we can remove dirt and disinfect 99.9%* of treated non-porous surfaces.

Avatar does not store water at any point in its circuit. This avoids possible contamination of the water.

Avatar can work with hot water up to 35°C. It has 3 ozone production levels: high level (100%), low level (50%) and no ozone level (0%), controllable via the touch button on the right-hand side of the machine.

Avatar performs the following actions:

- > Cleans
- > Disinfects
- > It degreases
- > It does not require rinsing and does not generate chemical residues, making it eco-sustainable.

*Bactericidal activity test no. 492324 carried out in the laboratory by ACONSA at a maximum water temperature of 35°C.

*Bactericidal activity test (UNE 13697:2020 STANDARD), fungicidal activity (UNE 13697:2020 STANDARD) and viricidal activity (UNE 14476:2019 + A2 STANDARD).

Technical specifications

Model:	Avatar	
Power supply:	Input: AC 100 - 240V/50 - 60 Hz Output: 12 Vdc	
Electric power:	12 W	
Ozone level (3 levels): 100% - 50% - 0%		
zone concentration: 0.5 - 1.2mg/L		
Maximum ozone effectiveness in water:	2 hours in open container (1)	
	5 hours in closed vessel (2)	
Minimum water pressure:	2.5 bar - 35 PSI	
Maximum water pressure:	3.5 bar - 50.8 PSI	
Water flow rate:	6l/min to 11l/min	
Operating temperature:	Water 5-35°C	
Product dimensions:	38 cm x 25.5 cm x 8.1 cm	
Net weight:	2.8 kg	

⁽¹⁾ Bactericidal-fungicidal activity test nº 500872 - 501060 carried out in the laboratory by ACONSA.

Instructions for use and safety

This product user manual provides information on the possible health hazards that may result from exposure to ozone, as well as on the safety measures to be taken during the generation of ozone for dissolution in water, the handling of the product to obtain ozone and in the application of the ozone generated with regard to its possible uses as a cleaner, disinfectant, degreaser and deodoriser.

- Before using the product, read the manual carefully, and follow all instructions and safety measures specified therein.
- The maximum water inlet pressure is 3.5 Bar static (50.8psi).
- If you connect Avatar to the washing machine, use only the new hose provided with this unit.

- To clean Avatar, use a soft cloth dampened with ozonated water. Do not clean Avatar equipment with chemicals.
- Avatar requires its own transformer for electrical connection.
- Avatar is designed for professional use, but is also suitable for domestic use. Its application in business, commercial or industrial contexts is possible in its function as a natural disinfectant in surface cleaning and washing machine cleaning up to and including 12 kg (ask your dealer for the industrial model Ecofrog Commercial Purifier).
- Avatar normally operates in a temperature range of 5°C to 35°C.
- Do not use Avatar with the lid open.
- M Do not install Avatar horizontally or at any angle.
- MEVER use a power transformer other than the one supplied with Avatar.
- / Install Avatar in a properly ventilated location.

⁽²⁾ Bactericidal activity test nº 506896 - Ozone effectiveness at 5h of production in closed container carried out by ACONSA.

Warnings/safety measures

- Ozonated water is not flammable or combustible.
- Do not apply ozonated water on unpackaged food.
- In case ozonated water comes into contact with eyes or skin, wash with plenty of water.
- In case ozonated water is accidentally swallowed, rinse mouth with plenty of water.

rinse your mouth with plenty of water and consult your doctor indicating the symptoms you are suffering from.

symptoms you are suffering from.

- The use of respiratory protection is not necessary if the instructions for use regarding the generation of ozone are followed. instructions for use regarding ozone generation and its dissolution in water and the maximum exposure limits established for this operation are followed. In the event that the machine is not installed in an adequately ventilated place, it is advisable to use a mask as a precaution.
- USE IN LAUNDRY: This system used in a closed-circuit laundry does not emit gases that could affect the user.

The exposure limits for ozone, according to different international organisations, are as follows:

OZONE EXPOSURE LIMITS				
FDA (Food and Drug Administration)	It requires that ozone production from indoor medical devices shall not exceed 0.05 ppm.			
OSHA (Occupational Safety and Health Administration)	Requires workers not to be exposed to an average concentration of more than 0.10 ppm for 8 hours.			
NIOSH (National Institute of Occupa- tional Safety and Health)	It recommends an upper limit of 0.10 ppm, which should not be exceeded at any time.			
EPA (Environmental Protection Agency)	It sets a maximum 8-hour average outdoor concentration of 0.08 ppm.			
WHO (World Health Organisation)	It sets a limit of 0.10 mg/m3 for a maximum daily average of 8 hours.			

Occupational ozone exposure limits determined by INSST 2011:

OZONE EXPOSURE LIMITS				
INSST (National Institute for Safety and Health at Work)	It establishes different VLA-ED® exposure limit values depending on the type of work performed or its duration:			
	HEAVY Duty: 0.05 ppm or 0.10 mg/m³			
	MODERATE duty: 0.08 ppm or 0.16 mg/m³			
	LIGHT Duty: 0.10 ppm or 0.20 mg/m³			
	HEAVY, MODERATE OR LIGHT WORK ≤ 2 hours: 0.20 ppm or 0.40 mg/m³			

According to the conditions under which ozonised water is produced, the ozone concentrations in the air do not exceed the values for 8 hours of occupational exposure. ozone concentrations in the air do not exceed the values established for 8 hours of exposure in the workplace. Taking into account that the normal use of the equipment is between 5 seconds and 1.5 minutes (10 litres/minute), ozone exposure would be minimal. Under normal conditions of use, and following the instructions in this product manual, no special protective measures are required, taking into account adequate ventilation of the area and the production times of the ozonised water.

Risk identification of the substance generated in-situ ozone.

Exposure to ozone gas (O_3) may cause headaches, eye and respiratory tract irritation.

The level of exposure depends on the duration of ozone generation and the work to be carried out. It is therefore very important to follow the instructions in this manual regarding the use of the product and to respect the exposure limits in order to avoid possible risks and their consequences.

Although the working concentration of the machine would not produce any adverse effects and the generation time is low, basic first aid measures are given in case of suspicion.

First aid:

> First-aid measures after inhalation: Remove person to fresh air and keep in a breathing position as a precautionary measure.

- > First-aid measures after eye contact: Rinse with water as a precaution.
- > First-aid measures after skin contact : Wash with plenty of water as a precaution.
- > First-aid measures after ingestion : Call a doctor if you feel unwell.

See full safety data sheet.

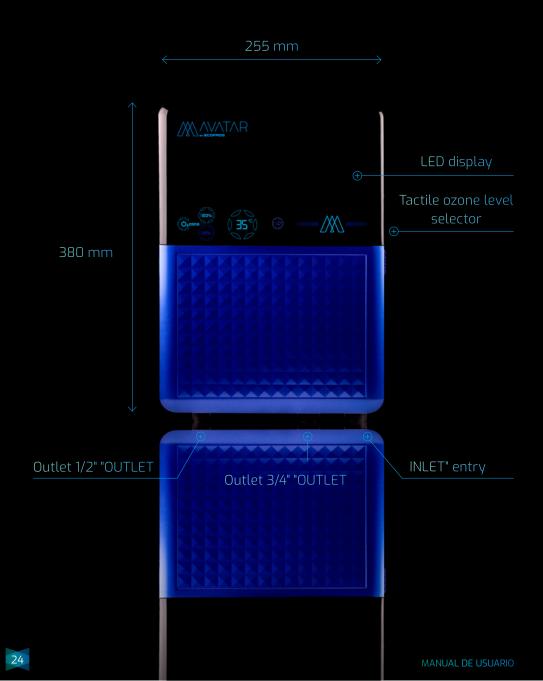
Installation and start-up of Avatar

- 1. Hang Avatar in the location assigned for installation.
- 2. Connect the water supply hose.
- 3. Purge the water line for 5 seconds. To do this, run water through Avatar using the hose and tap.
- 4. Connect Avatar to the power supply.
- 5. Start enjoying its properties and benefits.

Water Requirements

The water pressure range of 2.5 to 3.5 bar static is optimal for Avatar to work properly. Water quality may affect the performance of the device. If you have any doubts about the quality of the water available in your installation, please contact Ecofrog technical support.

Avatar Dimensions



JACK type connection

Tactile ozone level selector

81 mm

25

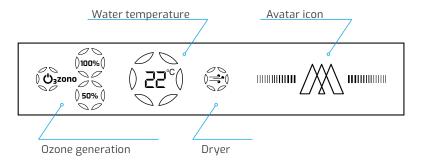


WELCOME TO (R) EVOLUTION



LED panel

The control panel shows how Avatar works:



Avatar is automatic and will start generating ozone when water passes through it. The LED panel lights will only come on when water is flowing through the system.

Stand-by:



When Avatar is in Stand-by it means that it is connected to the mains and ready to operate automatically as soon as water flows into it without the need to press any buttons.

Ozone generation:

Avatar has a blue touch button on the right side to control the level of ozone generation. By default, every time Avatar starts up it will generate 100% ozone level and only by touching the button you can change the percentage. With one press Avatar will go to 50% ozone generation and with another press it will stop generating ozone in the water. Pressing the button once more will reset Avatar to 100%.



100% generation



Generation at 50%.



NO Generation



Advice of use for washing machine:

For whites and clothes with difficult stains it is suggested to choose 100% generation level.

For more delicate laundry (linen, silk...) it is suggested to choose generation level of 50%.

Water temperature:

The control panel shows the temperature of the water that Avatar is working with. If the sensor fails and the temperature is not displayed correctly, this does not mean that the device will stop generating ozone.



Dryer:

The dryer starts automatically when Avatar is in operation and stops when Avatar stops working. After 3 hours from the last extraction, the dryer will run for a random amount of time depending on the amount of moisture in the dryer.



Note: The dryer is used to remove internal moisture and ensure the efficiency of the device.

In operation

The Avatar icon will light up blue and progress bars will light up as a sign that Avatar is working correctly and generating ozone.



Fault indicators

If a fault occurs, the light will change to red and flash. Avatar is able to detect on which element the fault has occurred and will indicate this on the control panel:



In the event of a fault, please contact the distributor who supplied you with the equipment or, failing that, contact Ecofrog by e-mail at sat@ecofrog.es or by telephone on +34 673 140 320.

Problem solving

1. The equipment does not turn on

There is a problem with the power supply or the hose.

Be sure to check the cables for a secure connection as well as that the hose is connected correctly to the "INLET" or "OUTLET" inlet and that the cold water tap is turned on. Then unplug and re-plug the Avatar power cord.

2. Failure of the ozone generator (Fig.1)

Unplug Avatar and restart it within 3 minutes. If the light is blue on restart, the unit is working properly. If the light flashes red, contact your dealer or send an email to the Official Technical Service at sat@ecofrog.es.

3. No or intermittent water flow from the outlet

It may be that some particles of limescale or residue in the water have clogged the Avatar pipes. Swap the hoses so that you connect the water pipe to the Avatar's "OUTLET" outlet and the extraction (or outlet) hose to the "INLET" inlet and direct it into a bucket. Then turn on the water tap and let the water circulate in Avatar for a minute or two.

By circulating the water in Avatar in the opposite direction to the usual circuit, the aim is to flush out the element that may be creating the blockage. If the problem persists, contact your distributor or send an email to the Official Technical Service at sat@ecofrog.es.

4. There is foam in the bucket after the first few uses.

Detergent residues on your laundry and/or in the washing machine are being removed. It may take several washes depending on the amount of residues left on the fabrics and/or in the washing machine.

5. Avatar beeps in a loop and LED panel does not light up.

If Avatar emits a looping beep and the LED panel does not light up on start-up, it may be due to excessive pressure which causes the machine not to come into service. This problem is external to Avatar and is not due to a malfunction of the machine. The solution is to install a pressure regulator at the inlet of AVATAR. The pressure must not exceed 3.5 bar static to ensure optimum operation.

In the hypothetical case that the static pressure is exceeded, a pressure regulator must be installed at the AVATAR water inlet.

Instructions for use

In order to obtain ozonised water for application on surfaces and/or utensils, it is important to bear in mind that the machine generates about 5.5 litres per minute with a static water pressure of 3.5 Bar, which is more than enough time to generate the necessary quantity for the purpose described.

The exposure time for the production of ozonised water shall be a maximum of 5 minutes in an adequately ventilated area. The ozonised water obtained must be used for the cleaning, disinfection, degreasing and deodorising uses described within a maximum time of 2 hours in an open container and 5 hours in a closed container from the time the ozonised water is obtained.

Under normal conditions of use, no special protective measures are required, but adequate ventilation of the area and production times must be taken into account. It is recommended to use the outlet shower supplied with Avatar and always immerse it in the filling container.

Instructions for use in CLOTHING WASHING

Avatar can work with washing machines up to a maximum load of 12 kg.

Once installed, Avatar will automatically interact with the washing machine, so you don't have to alter your habits and can continue to use it as usual. the washing machine, so you will not have to alter your habits and you can continue to use the washing programmes use the washing programmes you used to use before.

It is advisable to always work with the Avatar ozone concentration at 100% except for more delicate clothes (linen, silk...) where it is suggested to choose a generation level of 50%.

Note: See ozone generation section on page 28.

We recommend that you pre-treat difficult stains as you did before using Avatar. For common stains, the use of Avatar will allow you to reduce practically all detergent or stop using it completely.

Cleaning and disinfection of surfaces

Efficacy and safety:



Maximum use temperal ozonated water: 35°C. Maximum use temperature of



- *Fill and label container: - 2 hours in an open container
- 5 hours in a closed container



Avoid spraying directly on food

	Conditions of application in cleaning and disinfection:	In contact with food	no contact with food
Cleaning	Step 1: Fill and label the sprayer and/or buckets marked with "O ₃ " with ozonated water.	03	
	Step 2: Remove larger organic remains manually or mechanically if necessary.	(P)	
	Step 3: Spray or soak the surface with plenty of ozonated water. Spray directly on the surface at a distance ≤ 20 cm.	0100	
	Step 4: Allow to act according to the degree of dirt.		
	Step 5: Clean with a scourer/cloth/paper until organic remains and dirt are removed, rub/scrub the surface. Dry with paper/dry mop/rubber squeegee.	M	<u> </u>
Disinfection	Step 6: Spray or soak the surface again with plenty of ozonated water. The recommended acting times are in accordance with the UNE 13697 and UNE 14476 standards. **	3 ** * * * * * * * * * * * * * * * * *	
	Step 7: Dry the surface with paper/cloth/dry cloth.	PA	

Work tables, cutlery, kitchenware, utensils, slicers, choppers, machinery in general, irons, ovens, grills, refrigerating rooms, display cabinets, living room / terrace tables, chairs, coffee makers, beer handles, surfaces in general.

Floors (parquet, tile, PVC...), walls, glass, garbage cans, bathrooms, tiles, shelves, mirrors.

* Times are based on the following studies:

- > Bactericidal-fungicidal activity test no. 500872-501060 carried out by the ACONSA laboratory on 02/17/2021 Ozone effectiveness for 2 hours in an open
- > Bactericidal activity test no. 506896 carried out by the ACONSA laboratory on 07/30/2021 Ozone effectiveness after 5 hours of production in a closed contai-

^{**} Ecofrog guarantees complete disinfection on: Bacteria according to EN 13697 (tested contact time: 5 min) and fungi according to EN 13697 (tested contact time: 15 min).





Frequently asked questions

Do stubborn stains have to be pre-treated?

We recommend that you treat stains as you have always done before. Using Avatar, difficult stains should be treated in the same way as before.

Will Avatar work with industrial washing machines?

No, Avatar está diseñada para trabajar de manera óptima con lavadoras de hasta 8 kg, y puede trabajar hasta un máximo de 12 kg. Para lavadoras de mayor capacidad y sistemas industriales disponemos de un modelo específico diseñado para ello. Para usos industriales, contacte con su distribuidor autorizado o con el departamento comercial de Ecofrog a través de email info@ecofrog.es.

Does Avatar work with all types of water?

Avatar works with all qualities of water supplied by the public water supply in homes and businesses, but the better the water quality (less limescale, for example) the better the results. If you use hard water, we recommend that you use a water softener and/or pre-filter for chlorine. It should not be used with salt water.

Is it possible to drink water extracted from Avatar?

Avatar water should not be drunk or ingested.

Ozonated water should only be used for hygiene and disinfection purposes.



Warranty specifications

Avatar is warranted to be free from defects in material and workmanship for normal use for a legally established period from the date of purchase. The warranty is given only to the original purchaser.

The warranty is subject to the following conditions: any damage or malfunction caused by negligence, abuse or misuse in accordance with the user manual is not covered by this warranty. Also, any defect or damage caused by service not authorised by the manufacturer is not covered.

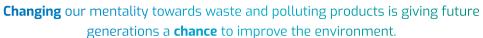
The manufacturer will, at its option, repair or replace a defective appliance or the part or parts of the appliance that is or are covered by the warranty. As a matter of warranty policy, the manufacturer will not refund the customer's purchase price.

To receive warranty service you must return the defective appliance or appliance accessories covered by proof of purchase to the dealer or the dealer's authorised insurer. All transportation costs for parts or units, submitted under this warranty shall be borne by the purchaser. Unless this warranty is expressly renewed or extended by the dealer, any repaired or replaced part of the unit is warranted to the purchaser for the duration of the unexpired portion of the original warranty and always being a minimum of 6 months from the date of repair of such part.

Machines tampered with by a non-official or unauthorised service technician will lose any warranty as soon as they have been tampered with improperly.

Please keep the original invoice or purchase contract of the device in order to certify the duration of the warranty.









- Avatar's box and packaging parts are made from recycled material.
- The protective sleeve that Avatar comes with is made from environmentally friendly polypropylene: no water is used in the production process, it disintegrates if permanently exposed to the sun and is made from pollutant-free materials.
- The system's sleeve is designed to be reusable as a multi-purpose bag.



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