

VEVOR[®]

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WATER FILTER (UV-C POND BIO PRESSURE FILTER) INSTRUCTION MANUAL

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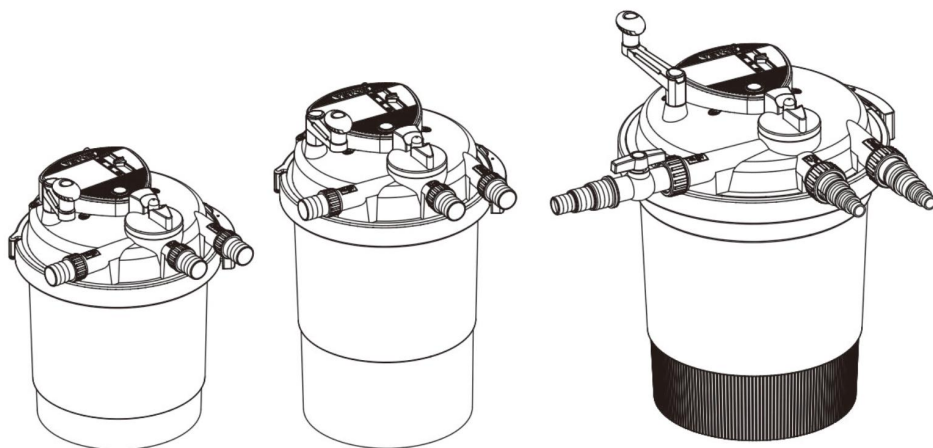
WATER FILTER

MODEL:

CPF-2500

CPF-3500

CPF-10000



NEED HELP? CONTACT US!

Have product questions? Need technical support? Please feel free to contact us:

 CustomerService@vevor.com

This is the original instruction, please read all manual instructions carefully before operating. VEVOR reserves a clear interpretation of our user manual. The appearance of the product shall be subject to the product you received. Please forgive us that we won't inform you again if there are any technology or software updates on our product.

Before operating this appliance, please read this instruction manual completely and keep it handy for future reference.

INSTRUCTION FOR USE

Use these instructions to familiarise yourself with the device before you use it for the first time. It is imperative that you observe the safety guidelines on the proper and safe use of this device.

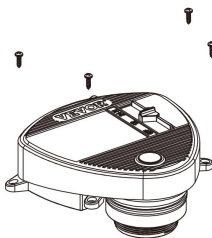
For safety reasons, children and young people under 16 years of age, as well as people who can not recognize potential hazards or who are not familiar with these instructions, must not use the device.

Please keep these instructions in a safe place! In the event of a change of ownership, please pass these instructions on to the new owner along with the product.

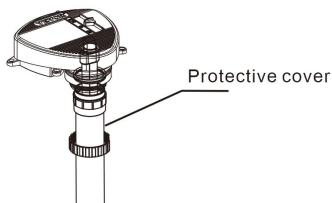
ATTENTION

Please follow these steps and read the instructions carefully before using the filter.

1. Remove the screw holding the lamp cap with a screwdriver.



2. Carefully lift the lamp cap up, and remove protective bushing over glass tube.



3. Re-insert the lamp holder assembly and lock with a screwdriver.

SYMBOLS

	Water goes through the pump into the filter.
	Water goes through the filter into the pond.
	Water from the cleaning outlet goes into the sewerage system or flower bed, etc.

UNPACKING

1. When unpacking, if external damage is visible which could impact the function of important parts of the equipment, please inform the carrier of the defects immediately, on the same day if possible, and insist on the facts being recorded in writing. Then contact your supplier who will take care of everything else.
2. Before use, be sure to remove the protective bushing under the lamp cap assembly, and then re-lock the lamp cap assembly.

CONVENTIONAL USE

1. The pressure filter with integrated UV is a sealed pressure filter system for biological and mechanical filtering of normal pond water with a temperature of +4C to +35C.
2. This pressure filter is exclusively intended for private use for cleaning garden ponds with or without pond fish.
3. Never filter liquids other than water.

SAFETY INSTRUCTIONS

CAUTION:

The C series UV-Clarifier device is a kind of stationary type machine that is fixed with a UV-C lamp. Unintended use of the appliance or damage to the housing may result in the escape of the dangerous UV-C radiation. UV-C radiation may, even in little doses, cause harm to the eyes and skin. Appliances that are obviously damaged must not be operated. This device is not intended for use by persons or children with impaired physical, sensory or intellectual impairments, or if lacking in experience and or know-how, unless they are under supervision or have been trained in the use of the device by a person responsible for their safety. Children or persons under 16 years old, persons who can not distinguish danger, or persons unfamiliar with this instruction are not allowed to use this device.

1. Electrical installation must be in accordance with the provisions of the domestic.
2. Extension cable and adapter (such as socket board) must be suitable for outdoor use (To prevent water splashing).
3. Make sure that the filter UV is equipment with a measured fault current not greater than 30mA via a fault current protection switch(FI or RCD).
4. Power supply connection section of the wire shall not be lower than with the abbreviated symbol HO5RN-F rubber cable.
5. If you have problems or difficulties, please seek help from electrical professionals.
6. The electrical data of the supply must correspond to the data on the label.
7. Dangerous ultraviolet radiation, UV rays are harmful to your eyes and skin. Never operate the lamp outside the container.
8. Do not operate this product if the connecting cable, UV lamp or there is any breakage on the shell.
9. If someone in water can not run this product.
10. In addition to the clear requirements in the manual, do not open the

equipment or other accessories.

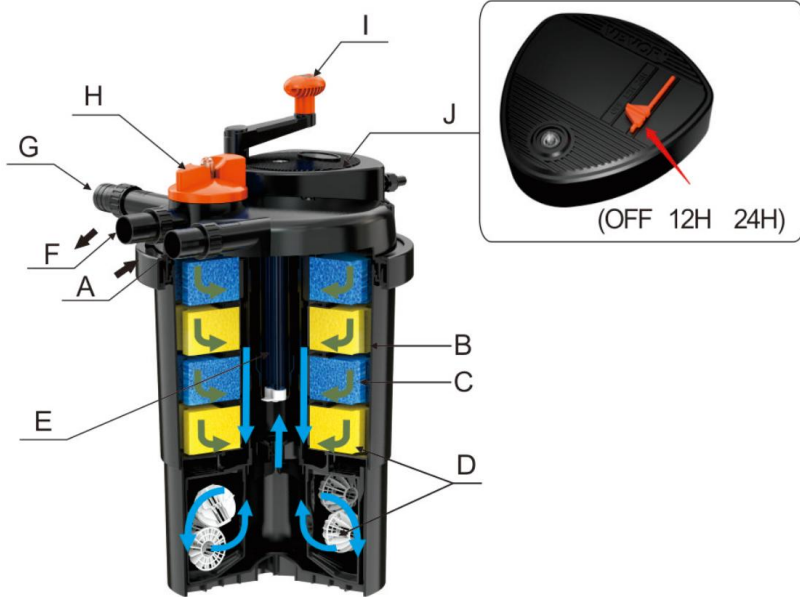
11. Before any operation on the equipment, cut off all the power of the equipment.
12. Equipment, the interface and the plug are not waterproof, so do not allow the underwater laid or installation.
13. Keep dry.
14. Need a pump(separately buy)to run this product.The maximum head of the pump shall not exceed the maximum pressure that the product can withstand.
15. The internal pressure shall not exceed 0.3 bar(when the red buoy in the middle of the function switch floats, it means the inner filter sponges should be cleaned).
16. Hoses that connect the filter and pump must withstand pressure greater than the maximum head of the pump.
17. In normal work, you should ensure the function switches to "filter".Only when cleaning, switch to "clean".
18. Before starting up the filter, check the connected hoses and the clamp are correct.
19. If it is a frost day, you have to remove the filter.
20. Install the filter where it will not be exposed to direct sunlight.
21. Type Y attachment: If the supply cord is damaged, it must be replaced by the manufacturer, its service agent or similarly qualified persons in order to avoid a hazard.
22. **GROUNDING INSTRUCTIONS** - This appliance must be grounded. In the event of a malfunction or breakdown, grounding will reduce the risk of electric shock by providing a path of least resistance to electric current. This appliance is equipped with a cord having an appliance-grounding conductor and a grounding plug. The plug must be plugged into an appropriate outlet that is installed and grounded in accordance with all local codes and ordinances.
23. **WARNING** - Improper connection of the appliance-grounding conductor can result in a risk of electric shock. Check with a qualified electrician or service representative if you are doubt whether the appliance is properly grounded. Do not modify the plug provided with the

appliance; if it will does not fit the outlet, have a proper outlet installed by a qualified technician.

FEATURES

1. Integral filter system, filter effect is remarkable.
2. With a complete UV-C clarifier, the UV lamp can be timed and set at will at OFF, 12 and 24 hours. The correct use can effectively improve the water quality to ensure that the water is clear and healthy.
3. Patented cleaning technology, easy to maintain.
4. Suitable for garden ponds, koi ponds, etc.

HOW THE FILTER WORKS



The pressure filter with integrated UV is a sealed filter system for the biological and mechanical cleaning of pond water.

A. Water inlet

The pump is connected to the water inlet with a pressure hose.

B. Vortex system

Under the action of gravity, suspended solids and mud are separated.

C. Mechanical filtration

When the water is through the filter sponge into the internal, dirt particles will be stopped by the sponge surface.

D. Biological clarifying

The pores of the filter sponge form a large inner surface which microorganisms can colonize. The yellow and blue filter sponges differ in

size and density. This creates zones in which the water can flow at different speeds. Zones with a high flow speed (blue filter sponges) favor the colonization of microorganisms that convert ammonium to nitrate via nitride(nitrification). Zones with a low flow speed (yellow sponges) support the colonization of anaerobic microorganisms, which reduce nitrate to nitrogen(denitrification).

Biological materials can help cultivate all kinds of anaerobic bacteria, and the anaerobic bacteria will turn the nitrate into ammonia gas.

Note: CPF-2500 does not contain biochemical materials.

E. UV-C filtration

As the water flows out, it is briefly exposed to ultraviolet radiation under the UV lamp. This kills off germs and bacteria and inhibits algae growth. The water subsequently flows from the edge into the filter in a circular fashion.

F. Water outlet

At the water outlet, the clarified water is fed back into the garden pond via a pressure hose or a watercourse, etc.

G. Cleaning connection

When cleaning the filter, a drainage hose can be connected to the cleaning connection, which diverts the dirty water into the sewerage system or onto a flower bed.

H. Function switch

The function switch is used to switch between normal water discharge into the pond "filter" and the cleaning connection "clean".

I. Cleaning handle

When the function switch is on the "clean" position, the sponges can be cleaned by turning around the cleaning handle. Please turn the function switch back to the "filter" position when the cleaning process ends.

J. UV timing switch

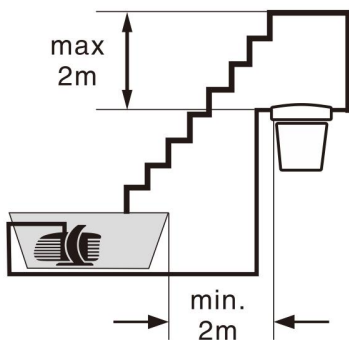
It is recommended to set 24 hours in summer and 12 hours in spring and autumn. The UV lamp can be turned off when the temperature is low in winter or when the filter is just starting to work.

Definition of clear water

The clear water is achieved if the fish or stones at the bottom of the pond can be seen at a depth of 1m.

1. The installation of the filter

- 1) Install the filter so that it is safe from flooding. Secure your filter so that it will not fall into the pond. It should be placed at least 2m from the edge of the pond.
- 2) Dig a hole beside the pond, bedded filters below the clamp or clip. Or put the filter in a strong and smooth place.
- 3) In order to facilitate work on the filter, installed to ensure that the lid can open.
- 4) Pumping height (the vertical height of the outlet to the pond water), more than 1m to choose a correspondingly more powerful pump.



5. Connecting hoses

We recommend warming the hose with hot water, pushing it onto the spiral stepped hose adapter and securing it with a hose clip.

This makes the connection more watertight.

1. Try to choose a larger diameter hose to connect the filter.
2. For hoses that are longer than 4m, please always use hoses that correspond to the upper value of the scale.
3. In order to avoid pressure loss, cut the spiral stepped hose adapter at the relevant points for each hose.

6. Cleaning connection

Connected to the cleaning connection. This allows you to drain the dirty water directly into the sewerage system or onto a flower bed.

Starting on the pressure filter

Before each start-up, you should check that the connected hoses and the clamp are sitting correctly. The function switch must be set to the "filter" symbol. It is imperative that you read and follow the safety instructions before start-up.

- 1) Switch on the pump. Caution! The UV lamp must not be operated without water flowing through it.
- 2) Check all the sealing connections. If there is leaking, it should be adjusted.
- 3) Pass the filter on the power supply.
- 4) The filter system with integrated UV must be running permanently, 24 hours a day.
- 5) The UV lamp must be replaced after 8,000 hours of operation in order to ensure that the filter UV continues to operate with optimum effectiveness.
- 6) The filter system must be cleaned regularly.

Attention: in the case of a new installation, the pressure filter only reaches its full biological cleaning effectiveness after a few weeks. Extensive bacterial activity only starts at a temperature of +10°C or above.

Washing the filter sponges

Suspended matter and dirt are deposited in the filter sponges over time. These deposits reduce the effectiveness of the filter, so the filter sponges should be cleaned regularly, e.g., every week.

The filter sponges should be cleaned when cloudy or even dirty water flows out of the water outlet and back into the pond. (When the red indicator in the function switch is floated on).

- 1) Turn clockwise until it clicks into the "clean" position.
- 2) Turn the cleaning handle, and the clean gear will be squeezed into the

sponge to achieve mechanical cleaning.

3) The filter will now be rinsed. Once clean water can be seen through the transparent spiral stepped hose adapter at the cleaning connection, turn anti-clockwise until it clicks into the "filter" position.

4) The filter is now operating again. Check the water flow into the pond.

5)

REPLACEMENT OF THE FILTER SPONGES

If the water flow is too small due to dirty filter sponges, and can not be improved by cleaning the handle. The filter sponges must be washed or replaced.

Please do not use any chemical cleaning agents so as not to kill off the microorganisms in the filter sponges.

1. Disconnect the mains plug of the filter.
2. Switch off the pump and ensure that it cannot be switched on unintentionally. Remove all hoses by unscrewing the union nuts.
3. Remove the protective buckle, then open the clamp.
4. Lift off the lid with the filter sponge assembly. Place the lid upside down on another clean surface. The filter sponges are lying with the filter plate facing up.
5. Remove the diversion pipe anti-clockwise, and remove the screws on the gear and the separate plate.
6. Remove the filter sponges to replace or clean them.
7. Pull off the filter sponges part and clean them under flowing water. Give the filter sponges a good squeeze.
8. Clean the container, filter sponges, O-ring and the edge of the container by spraying them with a water hose.
9. Put the sponge part as follow, put it on a separate plate, fix the leanness gear set, and fasten the diversion pipe.
10. Place the O-ring onto the upper edge of the container (To easily fit, you should make it wet). Press down on the lid.
11. Put the clamp in the right place, pull on the pull tab, and finally, push

the safety latch in.

12. Fasten all hoses with flat seals or flow vane to the corresponding connection by screwing the union nuts on tight.

13. Start the pressure filter up again.

Note: As for the difference between models, please refer to the actual prevail.

CLEANING THE QUARTZ TUBE AND REPLACEING THE UV LAMP

1. Unscrew the screw on the lid.
2. Pull out the UV head, then you can clean the quartz glass tube.
3. Clean the quartz glass tube with a wet cloth.
4. Remove the fixing nut on the quartz glass tube.
5. Pull out of the quartz glass tube then you can replace the UV lamp.
6. Check the quartz glass tube set. Change it if broken.
7. Set up all parts of the filter as before and start up the filter again.

Note: as the difference between models, please refer to the actual prevail.

WEARING PARTS

- | | | |
|------------|-------------------|-------------|
| 1. UV lamp | 2. Filter sponges | 3. Seal set |
|------------|-------------------|-------------|

TROUBLE SHOOTING

FAULT	POSSIBLE REASON	MEASURES
UV lamp indicator is not on	1. Main plug of filter UV not connected. 2. Defective UV lamp. 3. Faulty connection. 4. The turn-on time of UV lamp is set at CFF or 12H.	1. Connect the mains plug of the filter. 2. Replace the UV lamp. 3. Check the electrical connection. 4. To reset the turn-on time of UV lamp.
Water not getting clear	1. Unit not been used for long. 2. Low pump flow. 3. Water is extremely dirty. 4. Fish and animal population is too much. 5. Filter sponges are dirty. 6. Quartz glass tube is dirty.	1. Full effectiveness of biological cleaning is only reached after a few weeks. 2. Reset the flow of the pump or change the pump. 3. Remove algae and leaves from the pond, or change the water. 4. Guideline: approx 1Kg fish to every 1000 cbm of pond water. 5. Clean the filter sponges. 6. Clean the quartz glass tube.
No water discharge from pond inlet	1. Function switch set to "clean". 2. Mains plug of the pump is not connected. 3. Pond inlet blocked.	1. Reset function switch to "filter". 2. Connect the mains plug of the pump. 3. Clean the inlet of pond.

STORAGE

In order to prevent frost, you must drain the water, clean and check the filter after use. Then store it in a dry place.

TECHNICAL PARAMETERS

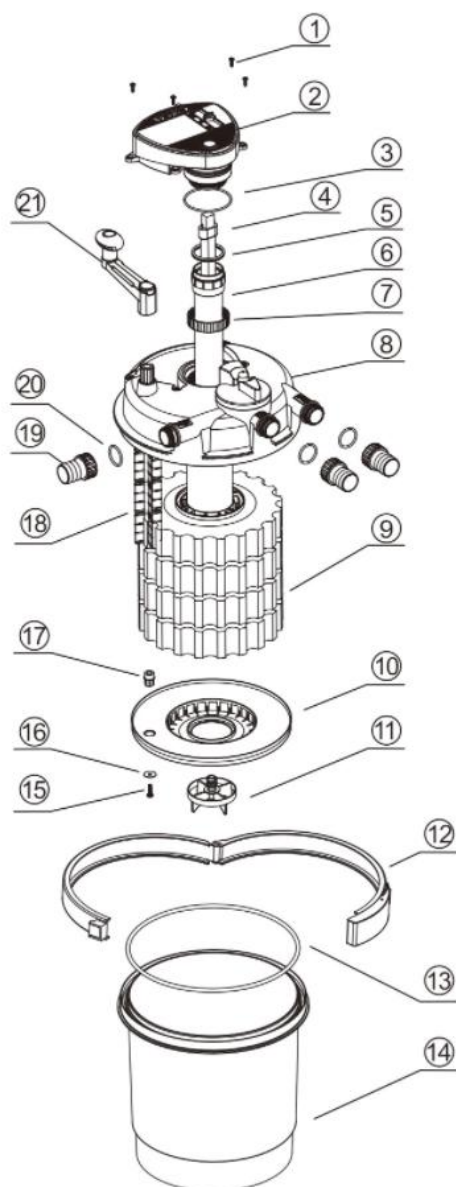
Model	CPF-2500	CPF-3500	CPF-10000
Voltage	110-120V/60Hz		
Power of UV-C	13W	13W	13W
Max flow-through	6000L/h	7000L/h	10000L/h
Outlet/Inlet hose adapter	$\frac{3}{4}''/1''/1\frac{1}{4}''$		$\frac{3}{4}''/1''/1\frac{1}{4}''/1\frac{1}{2}''$
Strainer surface	8m ²	8m ²	20m ²
Ponds with fish	3m ³	4m ³	6m ³
Decorative ponds	6m ³	8m ³	12m ³
Filter volume in litres	16L	20L	25L

CRITERIA: POND SIZE AND WITHOUT FISH POPULATION

PUMP FLOW		2000L/h	3000L/h	4000L/h	6000L/h	8000L/h	10000L/h
CPF-2500		1m ³	1.5m ³	2m ³	3m ³	/	/
		2m ³	3m ³	4m ³	6m ³	/	/
CPF-3500		1.5m ³	2m ³	2.5m ³	3m ³	/	/
		3m ³	4m ³	5m ³	6m ³	/	/
CPF-10000		/	/	3m ³	4m ³	5m ³	6m ³
		/	/	6m ³	8m ³	10m ³	12m ³

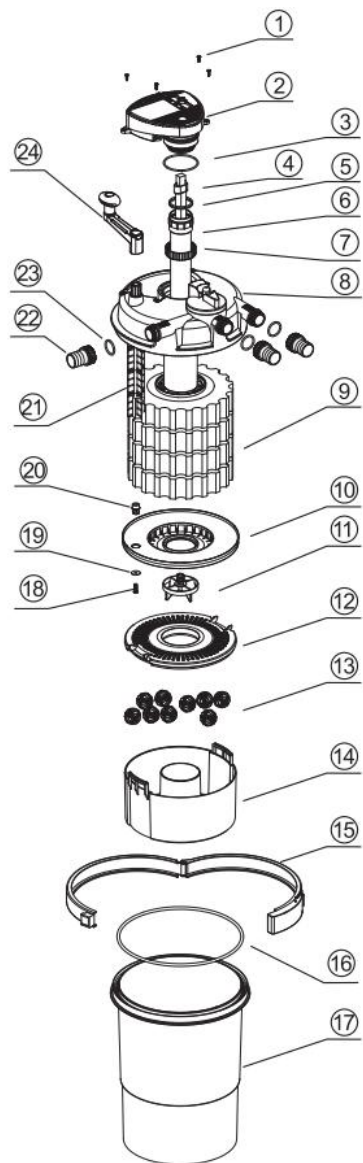
PART LIST

CPF-2500



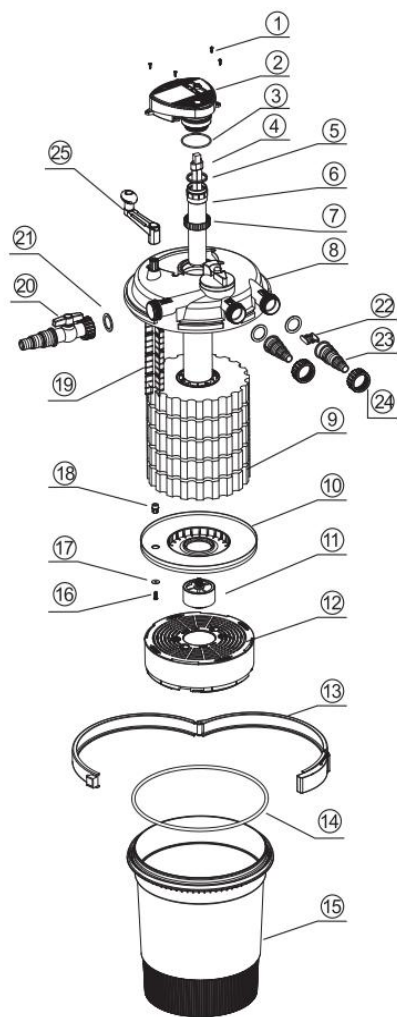
No.	Name
1	Screw 1
2	UV head
3	O-ring 1
4	UV lamp
5	O-ring 2
6	Quartz glass tube set
7	Fixing-nut
8	Lid
9	Sponge
10	Separate plate
11	Sponge fix part
12	Clamp
13	O-ring 3
14	Container
15	Screw 2
16	Washer
17	Down bearing
18	Clean gear set
19	Inlet&Outlet
20	O-ring 4
21	Cleaning handle

CPF-3500



No.	Name
1	Screw 1
2	UV head
3	O-ring 1
4	UV lamp
5	O-ring 2
6	Quartz glass tube set
7	Fixing-nut
8	Lid
9	Sponge
10	Separate plate
11	Sponge fix part
12	Filter basket cover
13	Bio ball
14	Filter basket
15	Clamp
16	O-ring 3
17	Container
18	Screw 2
19	Washer
20	Down bearing
21	Clean gear set
22	Inlet&Outlet
23	O-ring 4
24	Cleaning handle
	Screwdriver

CPF-10000



No.	Name
1	Screw 1
2	UV head
3	O-ring 1
4	UV lamp
5	O-ring 2
6	Quartz glass tube set
7	Fixing-nut
8	Lid
9	Sponge
10	Separate plate
11	Diversion pipe
12	Filter basket set
13	Clamp
14	O-ring 3
15	Container
16	Screw 2
17	Washer
18	Down bearing
19	Clean gear set
20	Drain outlet
21	Gasket
22	Flow impeller
23	Inlet&Outlet
24	Inlet&Outlet nut
25	Cleaning handle
	Screwdriver

ENVIRONMENTAL PROTECTION

This product is subject to the provision of European Directive 2012/19/EC. The symbol showing a wheellie bin crossed through indicates that the product requires separate refuse collection in the European Union. This applies to the product and all accessories marked with this symbol. Products marked with this symbol cannot be discarded with normal household waste but must be taken to an electrical and electronic equipment collection point for recycling.



MADE IN CHINA

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