



cvROBO L1

ART.NO. 120111

EN

**MANUAL**

Robot vacuum cleaner with mopping function

## 1. General information

### 1.1. SAFETY AND INTENDED USE

- Read the following manual before using cvROBO. Observe all the instructions on safety, use and maintenance. Store this manual for future reference. Observe all the audio warnings uttered by cvROBO, besides the advice concerning the battery and the charging dock.
- cvROBO must not be used by children aged 8 years or younger and by persons with reduced physical, sensory or mental abilities. Non-expert or untrained persons may only use cvROBO if supervised by a person responsible for their safety.
- This robot is not a toy. Supervise or keep away small children and domestic animals when cvROBO is operating.
- Do not leave the robot's electrical parts, battery or charging dock exposed. Make sure that the domestic mains voltage matches the rated voltage of the charging dock supplied.
- cvROBO was designed exclusively for being used in indoor domestic environments. Do not use cvROBO to collect burning materials or ash.
- Do not use cvROBO to vacuum liquids, detergents, solvents or other chemical substances, except those indicated in the "Routine maintenance" chapter. Do not use the tank with the water dispenser and the micro-fibre cloth to clean rugs.
- Do not use the mopping function for carpets and furniture tops.
- Do not use the product at a temperature of above 40°C or below 10°C or when there are liquids and sticky substances on the ground.
- Before using the robot, collect fragile objects, garments, clothing and shoes, newspapers and magazines, ribbons, strings and curtains from the floor, as they could hamper or prevent the regular cleaning cycle of cvROBO.
- Do not use the product to clean long-haired carpets.
- Dark surfaces with little reflection can cause cvROBO to misinterpret the surface.
- Do not leave power cords running along the floor or any objects connected to them that could be dragged by cvROBO or damaged by tipping over or falling.
- Do not place anything on top of cvROBO – neither objects nor animals.
- Do not move the machine by holding the protective cover of the laser distance sensor or the collision bumper.
- Always handle the appliance with both hands
- Do not spray or pour liquids on cvROBO.

- If there is an access to a balcony in the cleaning zone, use the FORBIDDEN ZONE function (see page 13) to prevent the robot from entering it and thus guarantee its safe operation.
- cvROBO does not contain any components that can be repaired by the end user.
- Move cvROBO from the charging dock before performing cleaning and maintenance.
- Prior to each use, check the battery and verify whether there are any signs of damage or leakage. Do not charge batteries that are damaged or show signs of leakage.

## 1.2. BATTERY AND CHARGING

- Only use the original battery charger to charge cvROBO. The product cannot be used with any other type of charger. The use of other battery chargers will immediately void the warranty.
- If the charger has a damaged cord or plug, it must be replaced with an original spare part.
- Only use original batteries for cvROBO L1.
- The charging dock must only be installed in environments protected against rain or thunderstorms.
- In case of thunderstorms, protect the charging dock against current overloads.
- Never touch the charging dock with wet hands.
- Make sure that the voltage of the domestic power network matches the rated voltage of the battery charger supplied.
- The battery must be removed before disposing of cvROBO.
- Do not place the battery near sources of heat.
- Do not immerse the battery in a liquid.
- Technical assistance must be carried out by authorised personnel. cvROBO does not contain any components that can be repaired by the end user.

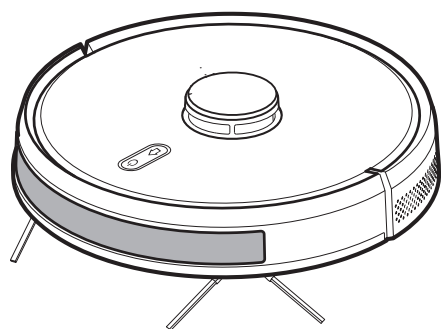
## 1.3. LASER SAFETY

- The laser distance sensor of the product complies with the IEC60825 standard for class 1 laser products and doesn't produce dangerous laser radiation.

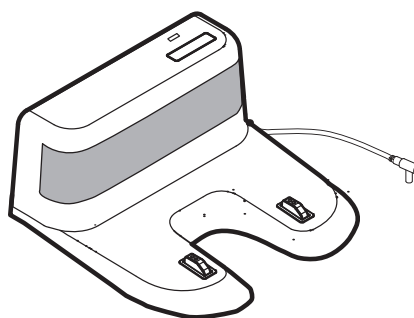
## 2. Material provided

After opening the packaging, check that the following components – all supplied with cvROBO – are present:

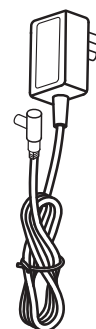
### cvROBO L1



*cvROBO L1*

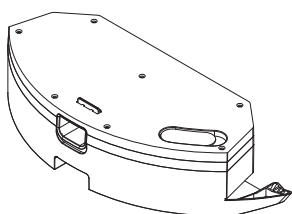


*charging dock*

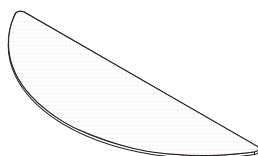


*charging dock  
charger*

### Accessories



*tank with water  
dispenser*

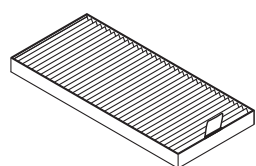


*floor mop*

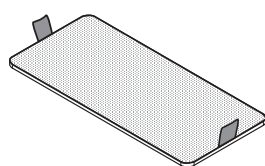


*brush cleaning  
comb*

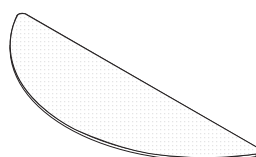
### Spare parts



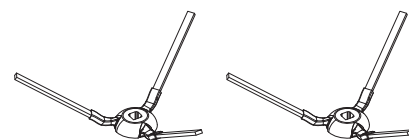
*HEPA filter*



*sponge filter*



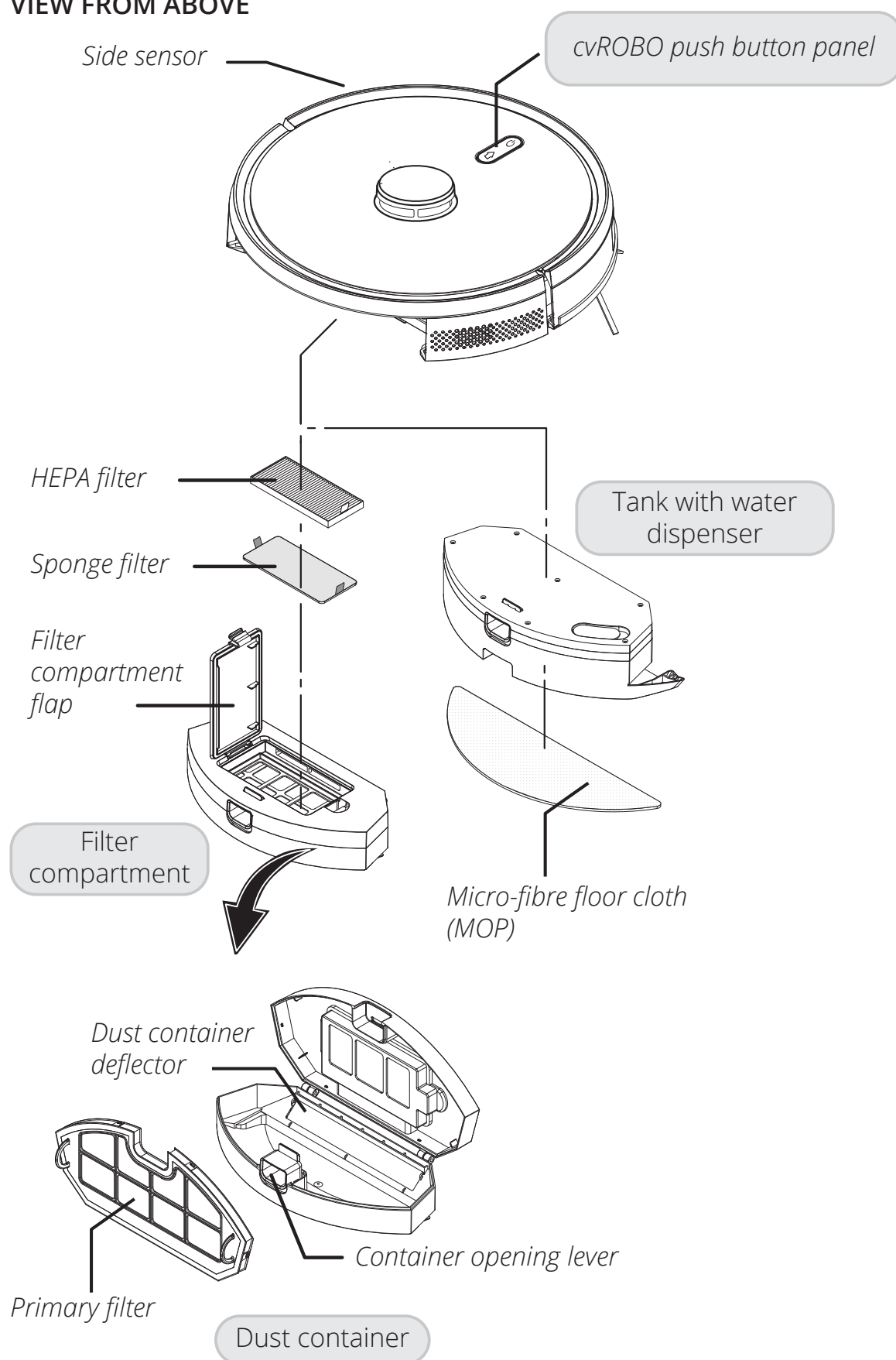
*floor mop*



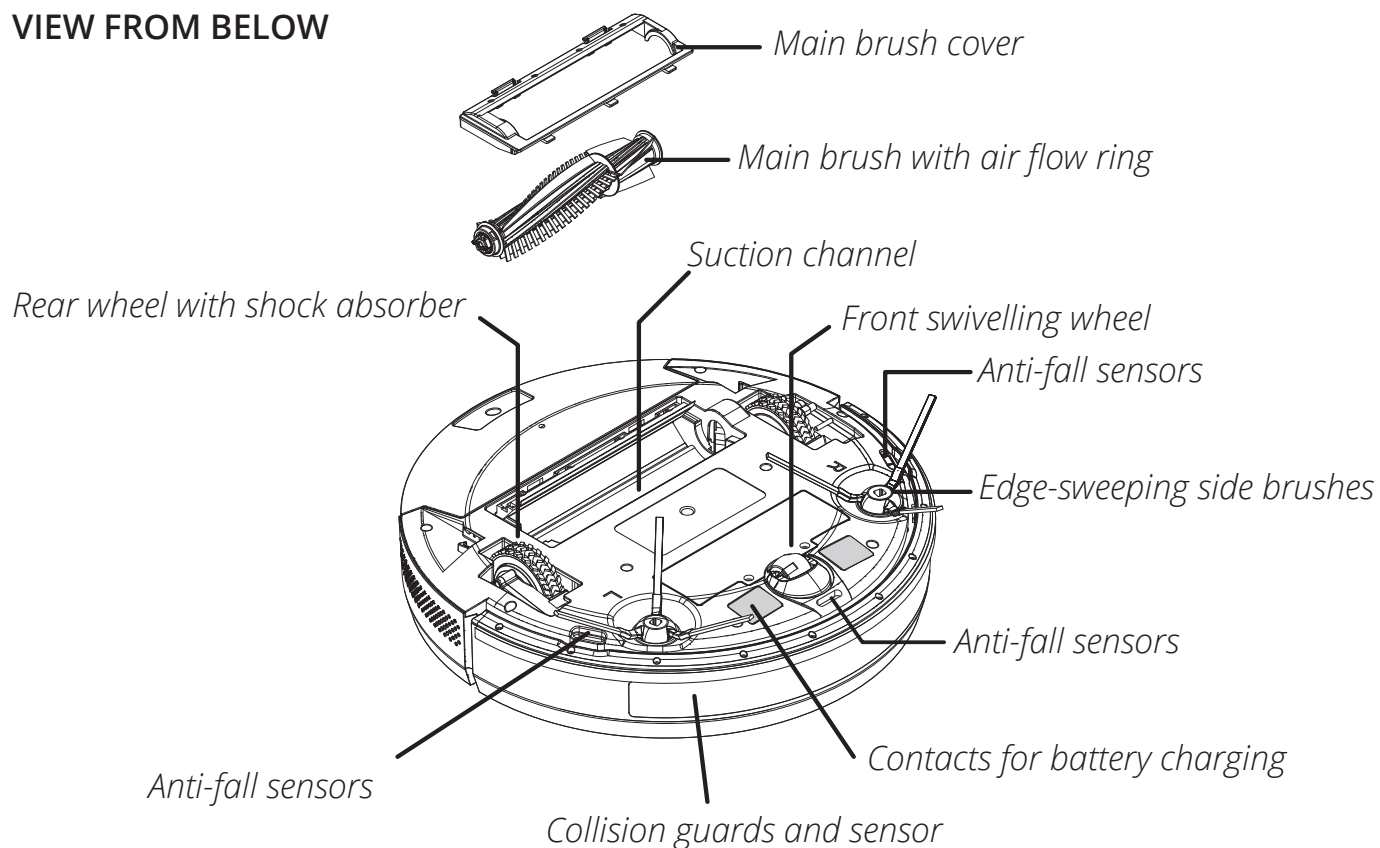
*edge-sweeping side brushes*

## Description of the components

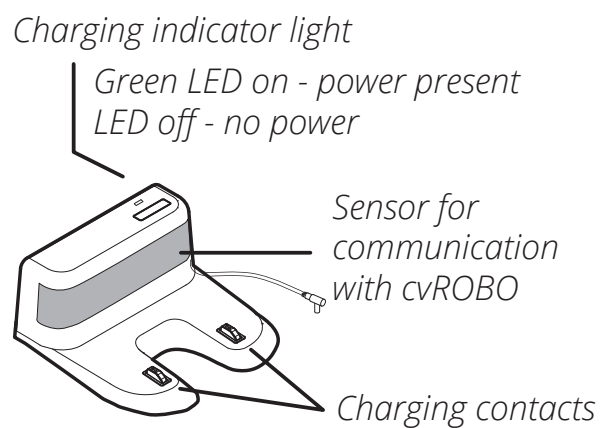
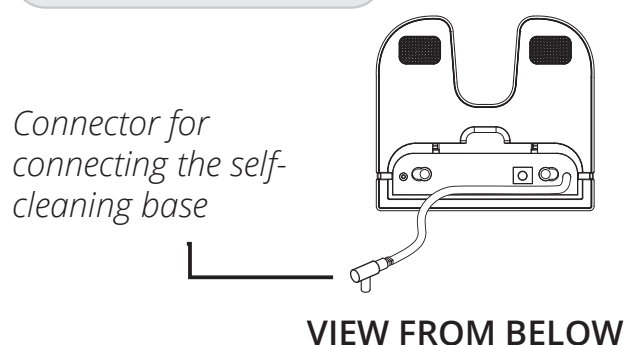
### VIEW FROM ABOVE



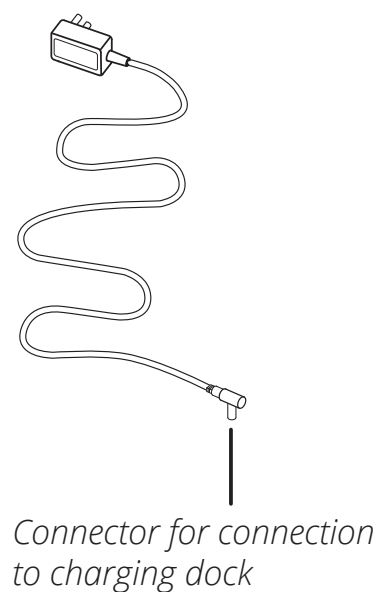
## VIEW FROM BELOW



## cvROBO charging dock



## 220 V battery charger



### 3. cvROBO specifications

Charging dock charger	Volts (VAC)	AC 100–240 V DC 24–1 A
Motor power	Watts (W)	30
Frequency	Hz	50/60
Lithium battery	mAh	5200
Height	cm	11
Diameter	cm	35
Sound power level**	dB	<65
Mapping	Laser	
Charging system	Automatic, via the charging dock	
Dust container emptying	Automatic, via the docking station	
	Manual, by extracting the container	
Compatibility with operating systems	iOS   Android	
Compatibility with voice assistance devices	Amazon Echo	Google Home
Voice messages	EN / IT / DE / FR	
WiFi frequency	2,4 GHz	

\*\* At maximum suction level during vacuum cleaning.

### 4. Installation

#### Domestic environmental conditions

For optimal results, the temperature of the domestic environment must be between 10°C and 40°C.



**Please note!** Prevent direct sunlight from reaching the charging dock as it may interfere with the communication and hamper the regular operation of cvROBO.

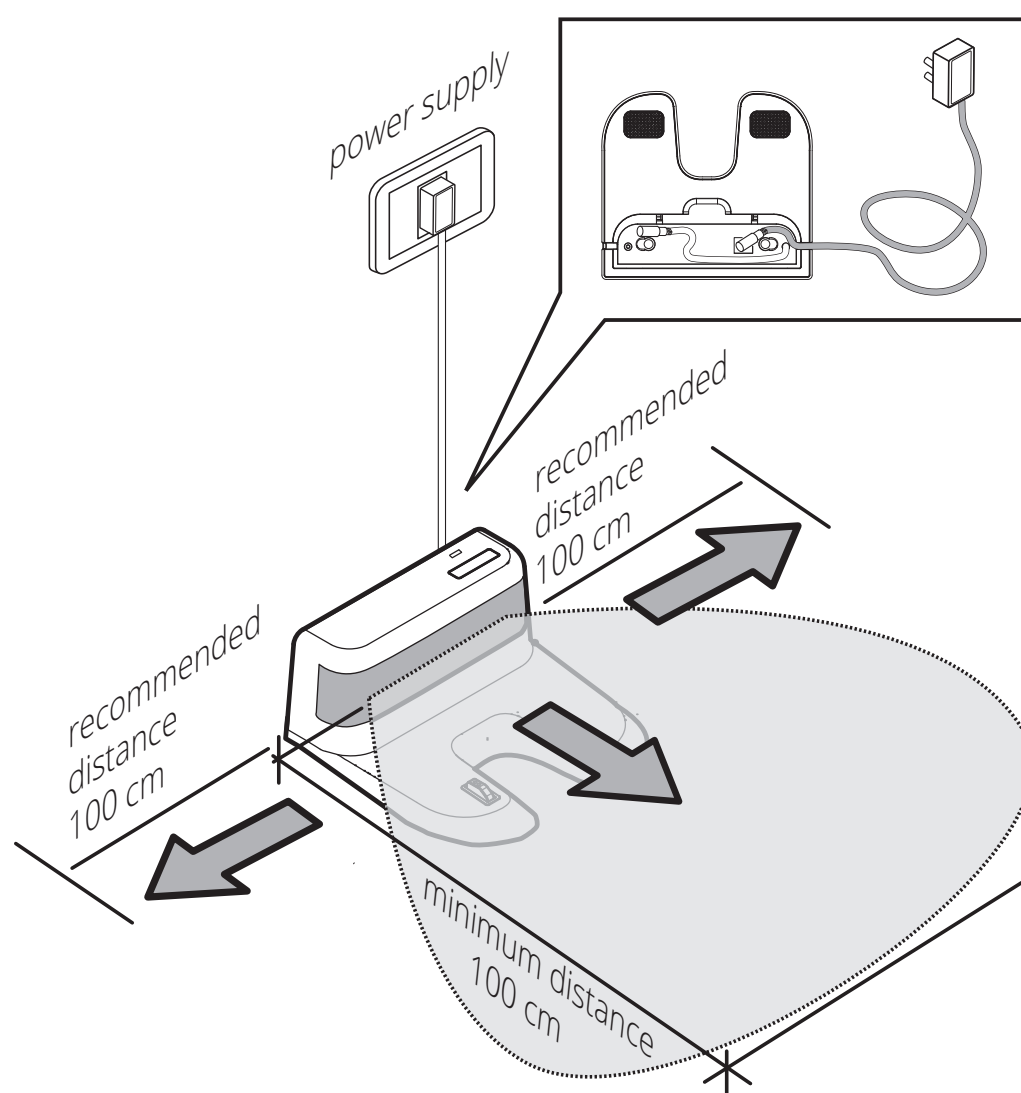
## Installing the charging dock without the docking station

Position the charging dock at least 100 cm away from stairs, empty zones and walls, so that cvROBO can leave the charging dock freely.

Make sure that the floor is flat and that the rear part of the self-cleaning base on


which the robot is inserted touches the wall.

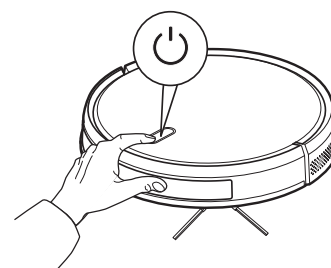
Make the electrical connection to power the charging dock as shown in the picture.



**Connecting the charging dock to the power supply**

## Activating/deactivating the automatic self-cleaning function

The self-cleaning function can only be performed with the self-cleaning base. To disable this setting, move cvROBO off the self-cleaning charging base and simultaneously press and hold for 3 seconds the  button and the front collision guard, or disable it via the cvROBO app.

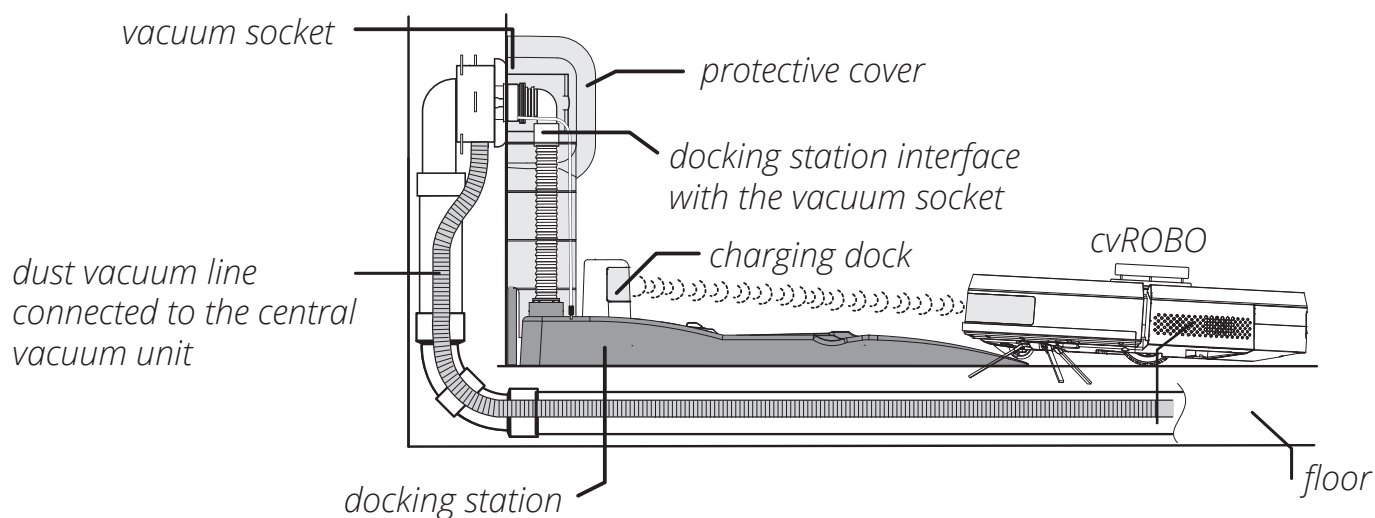


## Installing the charging dock with the docking station

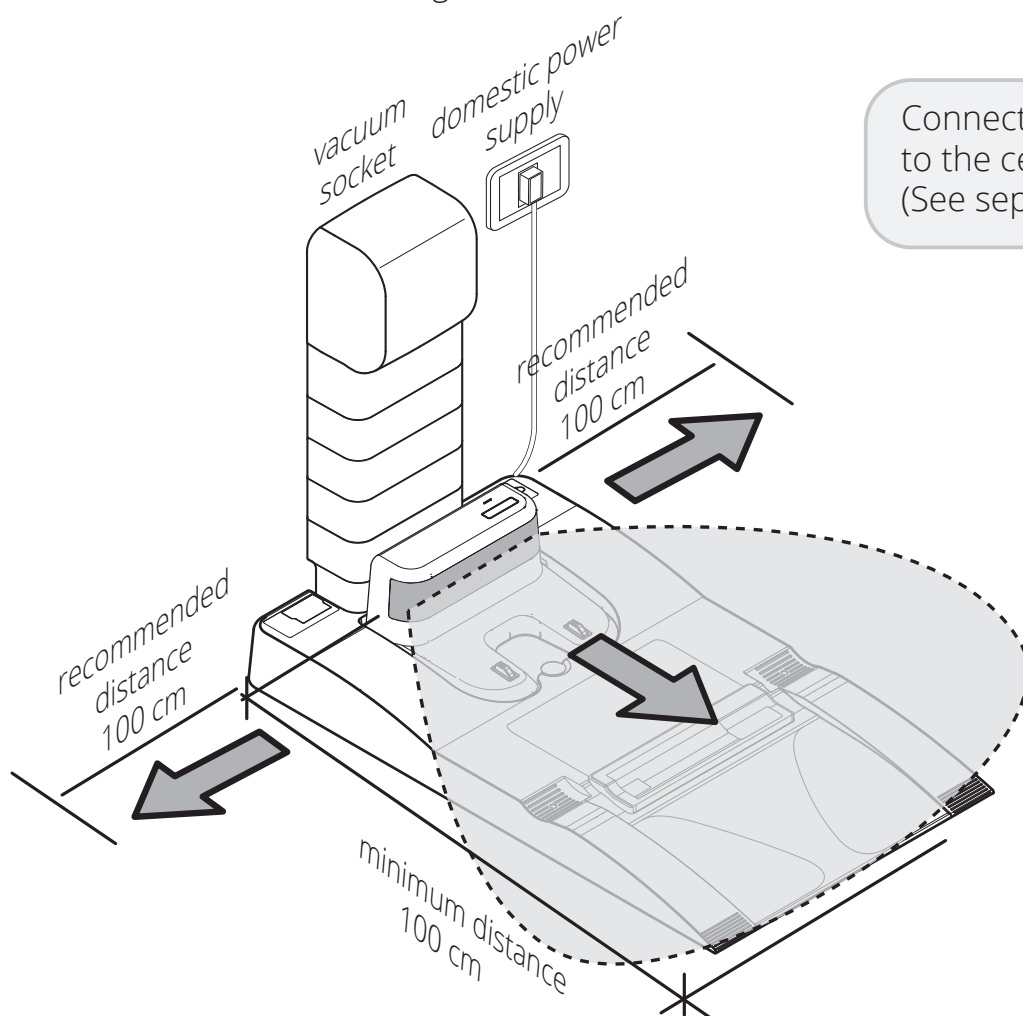
In this solution, the docking station is connected to a central vacuum unit to

eliminate the dust collected by cvROBO without the user's direct intervention.

### 4.1. CONNECTION DIAGRAM



Connect the docking station to the central vacuum unit.  
(See separate manual).

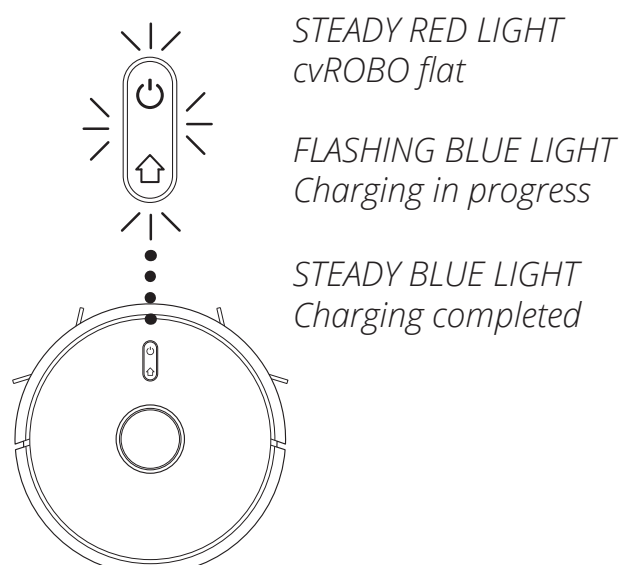


## 5. Charging the battery

### First cvROBO charge

When charging cvROBO for the first time, place it on the charging dock until the battery is fully charged.

Once charging terminates, the flashing blue light on the push-button panel becomes steady.



### Total charging time

If the battery is completely flat, it may take roughly 2 hours to charge completely.


### Low battery level

If the battery level is below 20%, cvROBO will not be able to function.

In such case, it must be placed manually on the charging dock and left there until the battery charges fully.

### Stand-by

Once cvROBO has been fully charged, it enters the STAND-BY mode.

To reactivate cvROBO, press the button  for 1 second.

### Battery replacement

When the battery is exhausted, it must be replaced with a new original one. The instructions for replacing the battery are included in the spare part's package.



**Warning!** Leave cvROBO to charge on the charging dock until the flashing blue light turns off.



### Please note!

If prolonged periods of non-use are expected, charge the battery fully, remove it and store it in a cool and dry place.



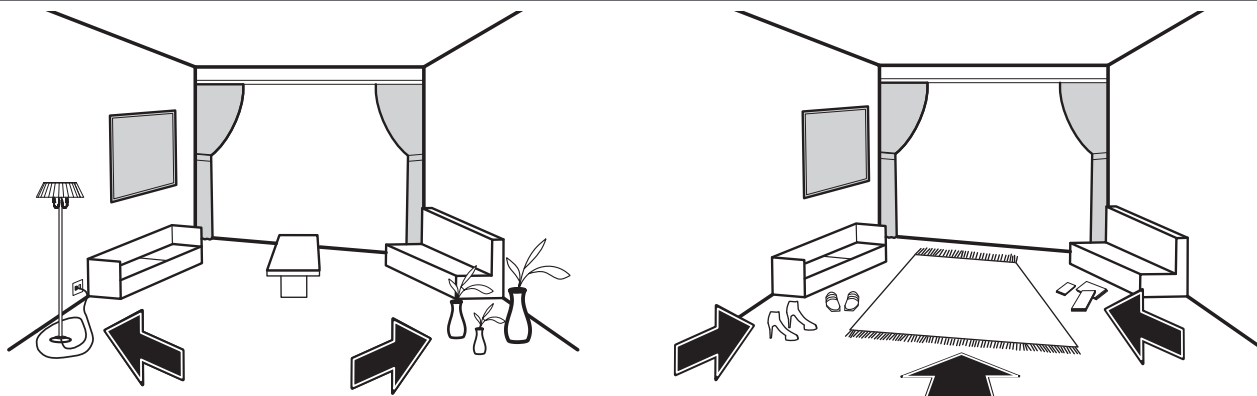
Lithium batteries constitute special solid waste that must be disposed of according to the applicable regulations.

## Tips for use

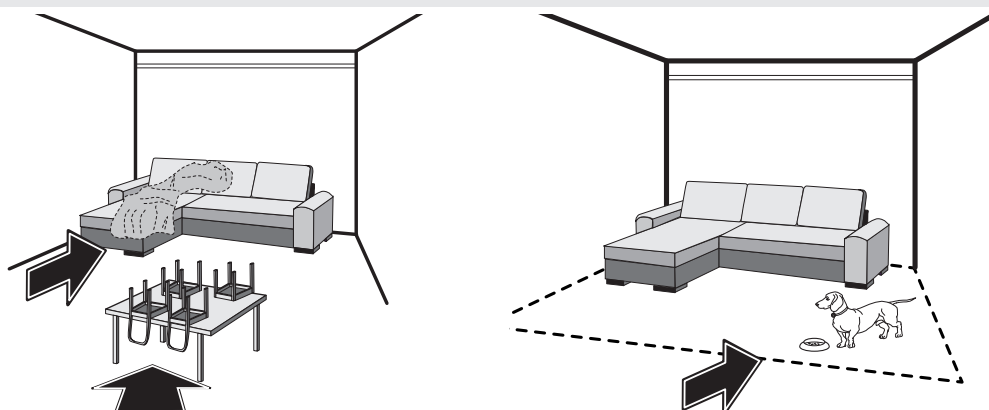
For improved cleaning efficiency, inspect the areas involved beforehand and prepare them as follows:

- Before each use, fully charge the battery.
- Orient the self-cleaning base preferably towards the center of the cleaning area.
- Clear the surfaces of the home from any obstacles that can be struck during cleaning, move any objects lying in the way such as electrical cables, shoes, handbags with straps, magazines and newspapers, remove light rugs, vases and fragile furnishings, toys scattered on the floor, place chairs above the tables, raise curtains or sofa covers with fringes touching the floor, and lift bowls for pet food.
- Be careful with objects in precarious balance that can be struck by the robot directly or indirectly. Check that any open doors are not closed after colliding with cvROBO, preventing it from returning to the charging dock.
- cvROBO performs its cleaning cycle regularly even if domestic animals are present. Any zones of the home to be excluded from cvROBO L1's path can be delimited using the FORBIDDEN ZONE function of the app.
- Anti-fall sensors emit infrared light which is reflected in the floor. If there is no reflection, cvROBO interprets it as a risk, eg a staircase. Dark surfaces with little reflection can cause cvROBO to misinterpret the surface.

## AVOID



## RECOMMENDED

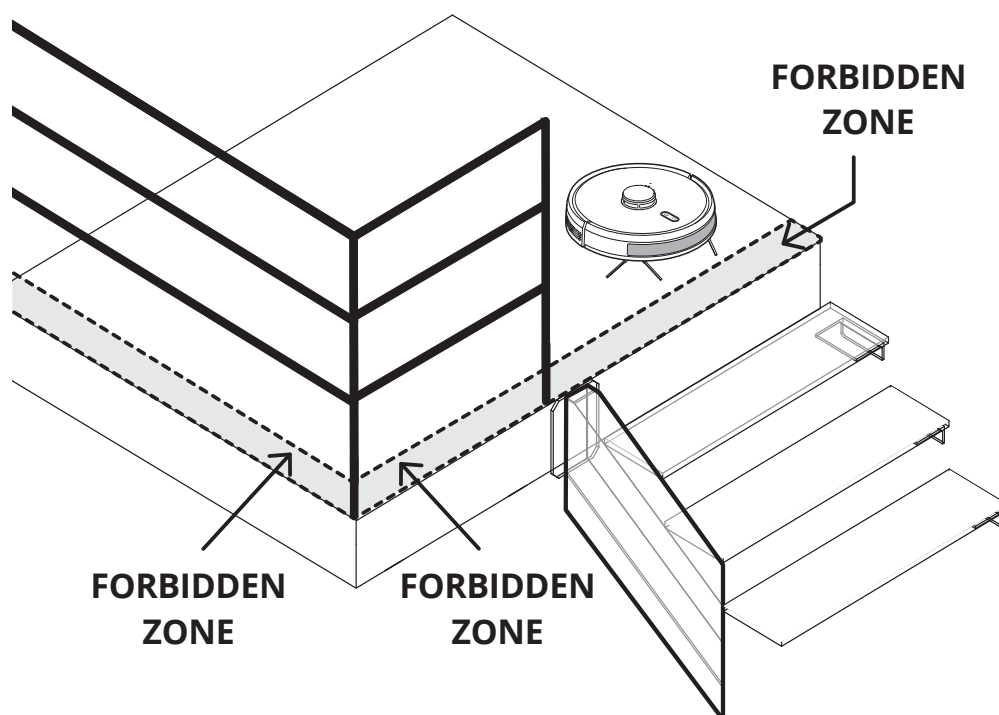


### FORBIDDEN ZONE

Use cvROBO L1 app to exclude areas of the house from cleaning.

### Anti-fall sensors

- cvROBO is equipped with anti-fall sensors to stop it in presence of stairs (balconies, middle floor, etc...) However, if the accidental fall of the robot can cause damage to things or people, it is highly recommended to increase safety by inserting FORBIDDEN ZONES with the cvROBO app.

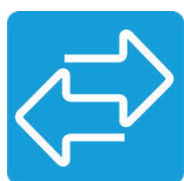


## 6. Cleaning programmes

These programmes can be activated via the cvROBO app which you download by scanning the QR code.

**NB!** The illustration may slightly differ from the ones in the app.

More features are available in the app which also has a FAQ help page.



cvROBO

cvROBO app for  
Android and iOS platforms

### Smart cleaning



Smart

Start cleaning

After pressing the above commands cvROBO starts and automatically calculates the optimal cleaning route by choosing which path to take to cover all the accessible rooms.

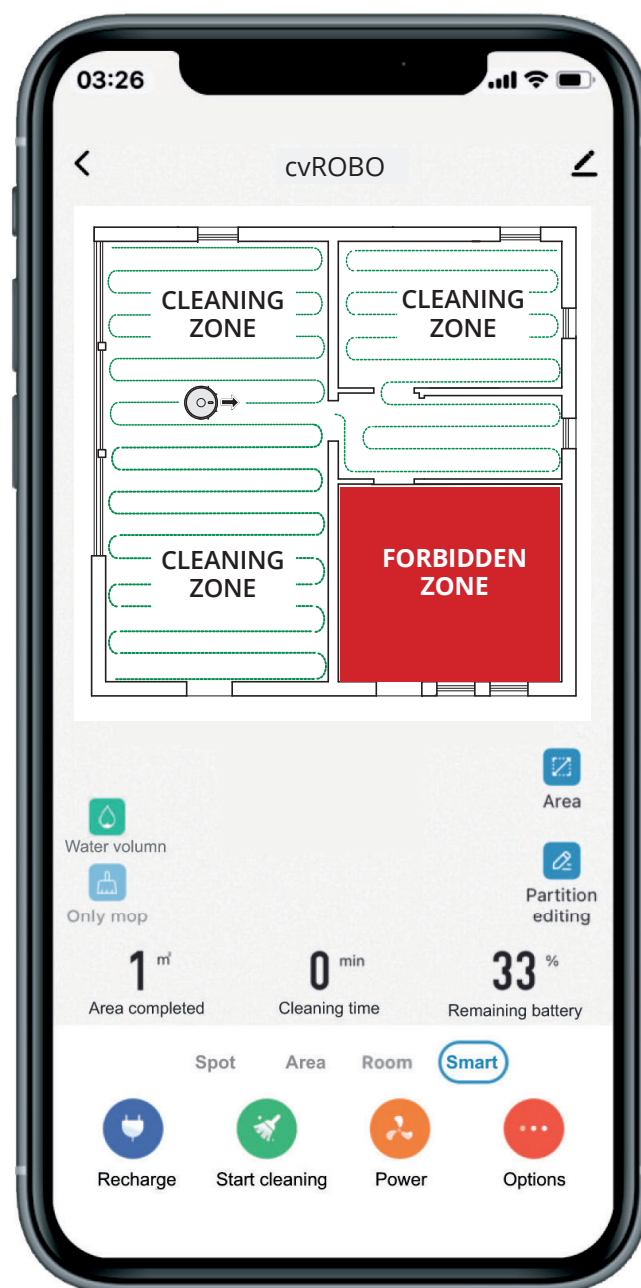
Once cleaning terminates, cvROBO returns to its charging base, empties the dust container (if the self-cleaning base is mounted) and charges the battery automatically.

### Forbidden zone



Via the cvROBO app it is possible to create virtual barriers, one or more forbidden areas where the robot won't clean.

Do not move the robot casually and frequently when it is cleaning. If the positioning fails, the robot would abort previous mission, make a map and do the cleaning again. Also it may not find the charging base.



## Area cleaning



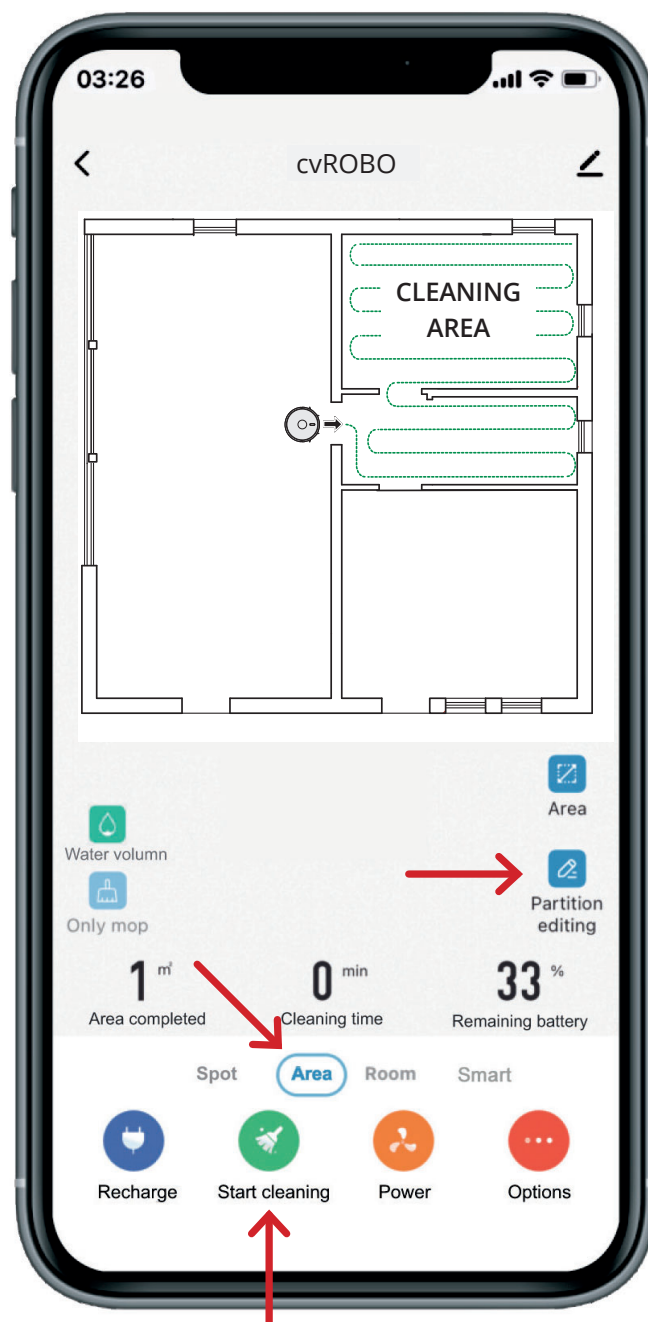
After pressing the above commands cvROBO starts to clean the specified area.

## Partition / room editing

After pressing the above commands cvROBO starts to clean the specified area.

After saving the mapping of all the rooms in the house, it is possible to create the size and position of one or more specific areas to be cleaned. cvROBO will activate to clean only specific areas.

Once cleaning terminates, cvROBO returns to its charging base, empties the dust container (if the self-cleaning base is mounted) and charges the battery automatically.



## Spot cleaning



When a local area needs a deep sweep the user specifies a point on the map in the app. Then cvROBO will automatically drive to the center of the point and clean a area of 1.5m x 1.5m.

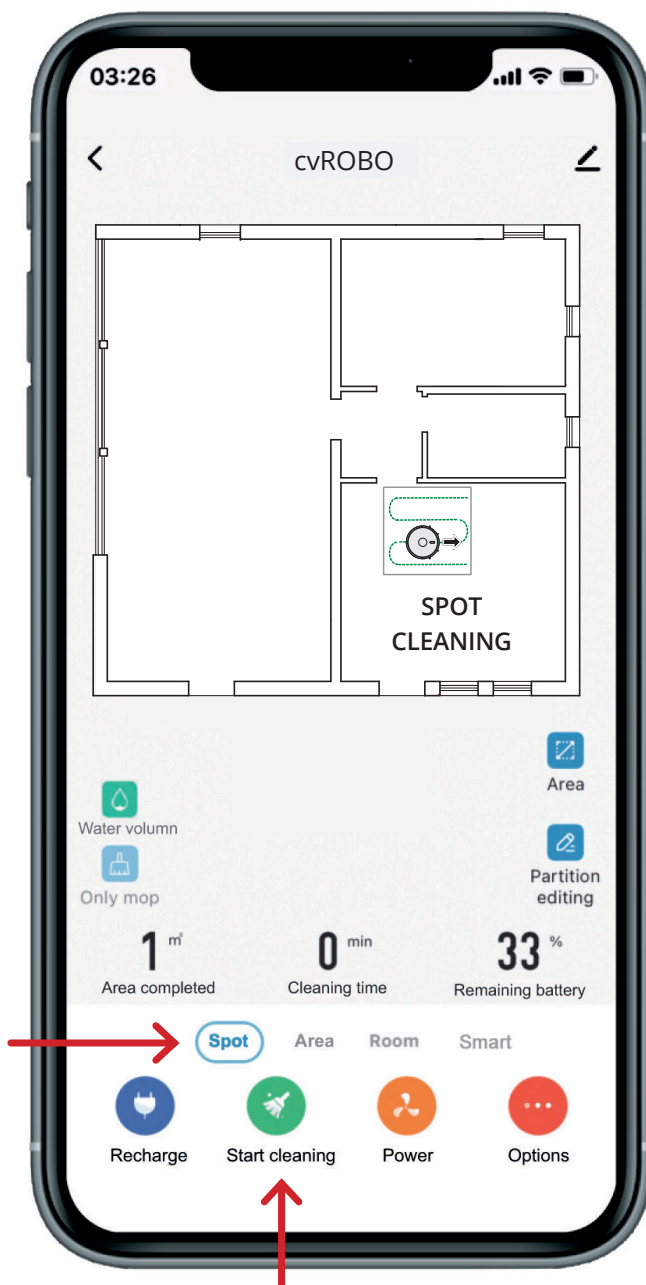
It is possible to set several consecutive passes of cvROBO.

Once cleaning terminates, cvROBO returns to its charging base, empties the dust container (if the self-cleaning base is mounted) and charges the battery automatically.



### Please note!

Do not move cvROBO casually and frequently when it is cleaning. After moving, please put the robot near the original position. When it starts again, it will try to reposition itself. After successful positioning, it would follow the planned path and continue to work. If the positioning fails, cvROBO would abort previous mission, make a map and do the cleaning again. Also it may not find the charging base.



### App features

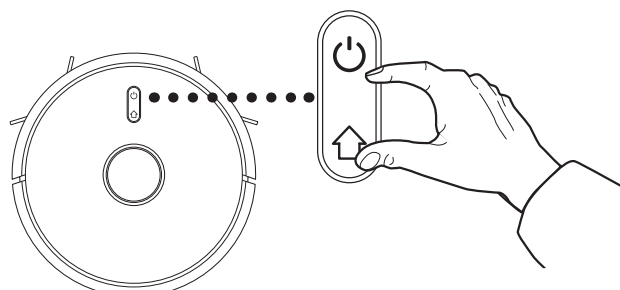
- The app contains more features than explained in this user manual such as;
- Individual timer settings for each area
  - Manual mode
  - Suction power and water volume
  - Merge / divide room
  - Name rooms
  - Personal cleaning modes for areas and order
  - FAQ











## 7. cvROBO control modes

cvROBO has two control modes:  
cvROBO push-button panel and cvROBO app

### Operation with the push-button panel

The push-button panel allows for using the following control modes:



Function	Buttons on cvROBO	
SWITCH-ON cvROBO switches on (check the battery charge as explained on page 7)		press the button for 6 seconds
CLEANING CYCLE START the SMART cleaning programme activates		press the button briefly
PAUSE / RESTART puts the cleaning programme in pause/ restart mode		press the button briefly
RETURN TO CHARGING BASE the robot returns to the charging base wherever it is located		press the button briefly
DUST CONTAINER AUTOMATIC CLEANING (only with docking station)		with cvROBO mounted on the self-cleaning base, press the button twice rapidly. The central vacuum unit activates and the cvROBO dust container empties
SPOT CLEANING PROGRAMME		press the button for 3 seconds
REPEAT CLEANING CYCLE		press the button twice
SELF-CLEANING FUNCTION DISABLING / ENABLING the automatic self-cleaning function is disabled /enabled again		simultaneously press and hold for 3 seconds the  button and the front collision guard
SWITCH-OFF cvROBO switches off with any set cleaning programme		press the button for 6 seconds

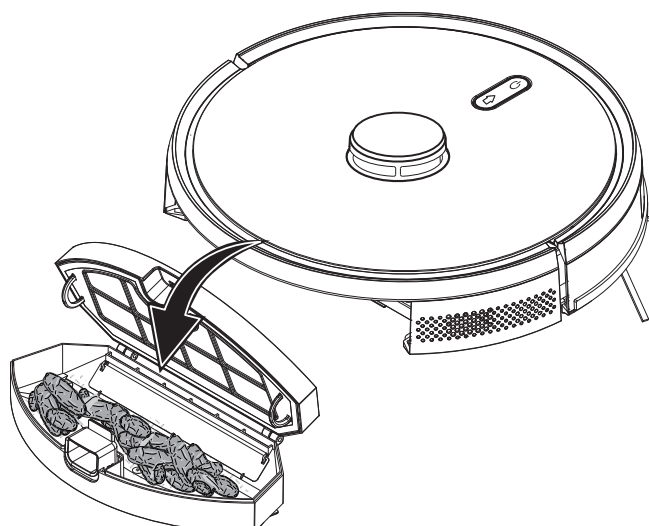
## 8. Cleaning modes

cvROBO has two cleaning modes: DUST REMOVAL (STANDARD) - FLOOR WASHING  
The modes are enabled automatically on the basis of the type of container/tank inserted on cvROBO.

### 8.1. DUST REMOVAL (STANDARD)

cvROBO cleans floor surfaces using the edge-sweeping side brushes and the main brush.

The dust collected is conveyed to the dust container which is then emptied automatically on the self-cleaning base, or manually by the end user.



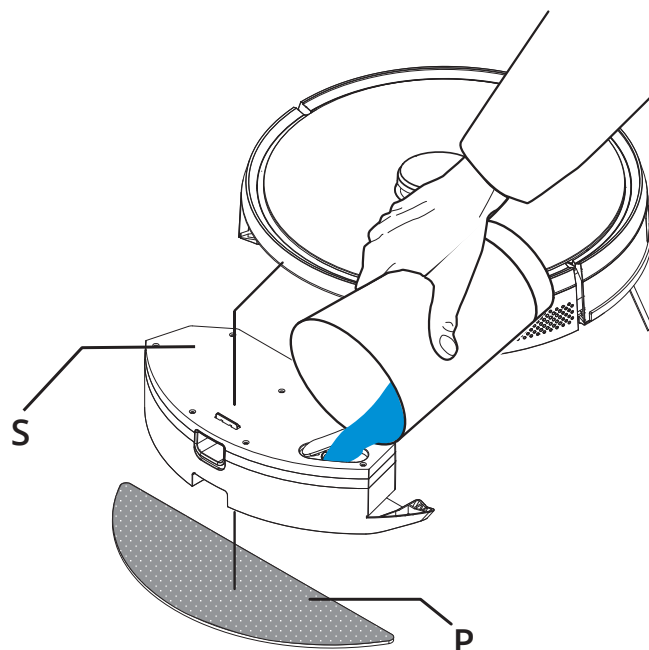
#### **Please note!**

cvROBO will not start unless the dust container is mounted on it.

## 8.2. FLOOR WASHING

cvROBO cleans floor surfaces using the water contained in the tank (S) and the MOP micro-fibre cloth (P) which retains moisture depending on how much water was dispensed by cvROBO.

With the cvROBO app it is possible to choose the level of water dispensed to the MOP.



### Please note!

- when using the FLOOR WASHING mode, it is necessary to move the rugs along the cleaning route.
- the tank with dispenser must be filled completely with water alone (at 30°C) as indicated.
- at the end of the washing cycle, empty the tank of any residual water, wash the cloth used and mount the dust container back on.



### Please note!

With the water tank inserted, cvROBO collects dust with the brushes and conveys it to the suction channel without activating the suction turbine.

## 9. Routine maintenance

To guarantee optimal performances from cvROBO, complete the single routine maintenance operations listed in this chapter.

The maintenance intervals listed in the table are subject to change in relation to the type of domestic environment, the presence of pet animals and how frequently the robot is used.

**Indicative routine maintenance schedule**

		With self-cleaning base	Without self-cleaning base
dust container	empty the dust container	empties automatically when the robot returns to the self-cleaning base	after every use
self-cleaning base	clean thoroughly by removing dirt residues	every 10 cleaning cycles	--
primary filter HEPA filter sponge filter	clean each filter thoroughly by removing dirt residues, filters should not be washed	weekly visual inspection and clean when necessary	weekly visual inspection and clean when necessary
side brushes left (L) - right (R)	clean thoroughly by removing hair, threads and residues using the comb supplied	weekly visual inspection and clean when necessary	weekly visual inspection and clean when necessary
main brush	clean thoroughly by removing hair, threads and residues using the comb supplied	weekly visual inspection and clean when necessary	weekly visual inspection and clean when necessary
charging dock	clean the sensors on the front of the charging dock using a damp cloth	every 30 cleaning cycles	every 30 cleaning cycles
	clean the contacts of the charging dock using a damp cloth	every 20 cleaning cycles	every 20 cleaning cycles
sensors	clean all sensors on cvROBO using a damp cloth	every 20 cleaning cycles	every 20 cleaning cycles
casters	clean thoroughly by removing hair, threads and dirt residues	every 10 cleaning cycles	every 10 cleaning cycles
tank with water dispenser	fill with water only	empty after every use	
MOP floor cloth	wash under running water	after every washing cycle	



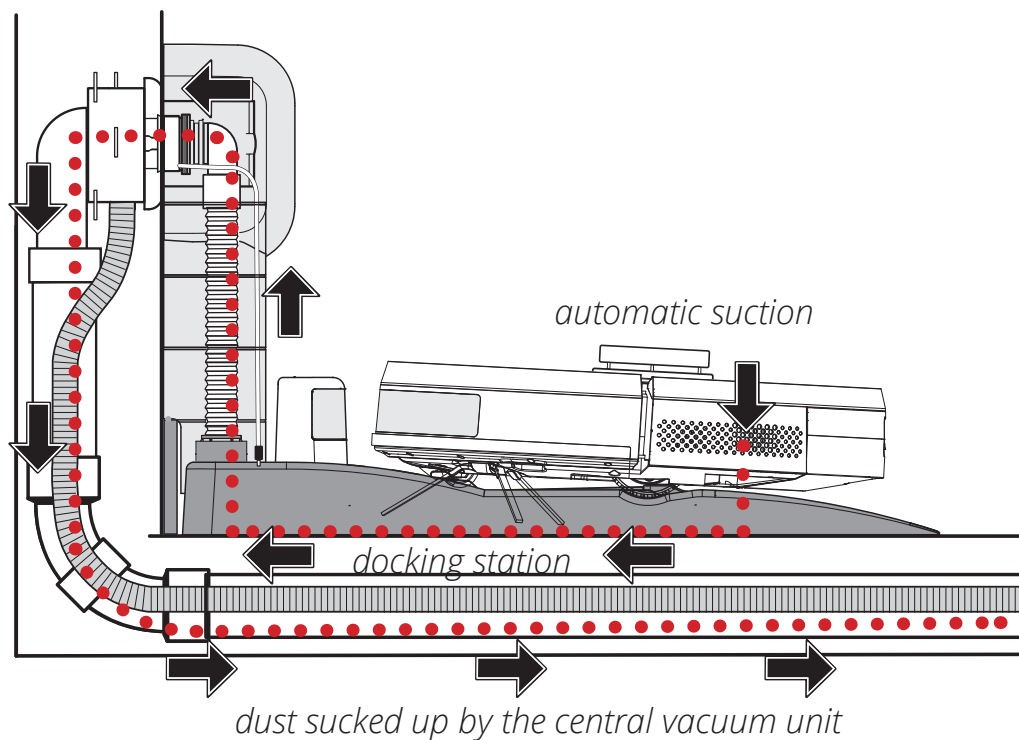
People who are sensitive to contact with dust should always wear personal

protective equipment (suitable face mask and gloves) before cleaning the filters, brushes and dust container.

## 9.1. CLEANING THE DUST CONTAINER - (SELF-CLEANING FUNCTION)

### With docking station

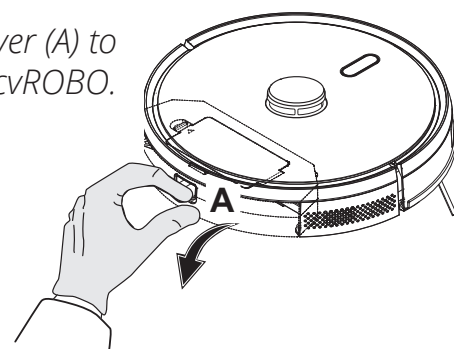
The dust container is cleaned automatically when cvROBO returns to the docking station.



### Periodic inspection of the dust container

We recommend periodically checking the dust container manually and clearing it thoroughly from any materials not sucked up by the central vacuum unit.

1 - Press the opening/closing lever (A) to remove the dust container from cvROBO.

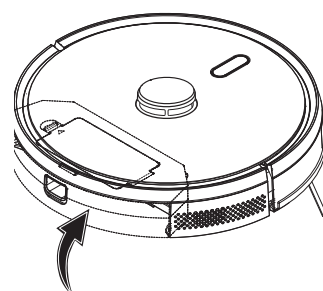


2 - Open the dust container, empty it completely and clean it with a cloth.



3 - Press the lever (A) again and insert the container until you hear a CLICK.

**CLICK**



## 9.2. CLEANING/REPLACING THE FILTERS



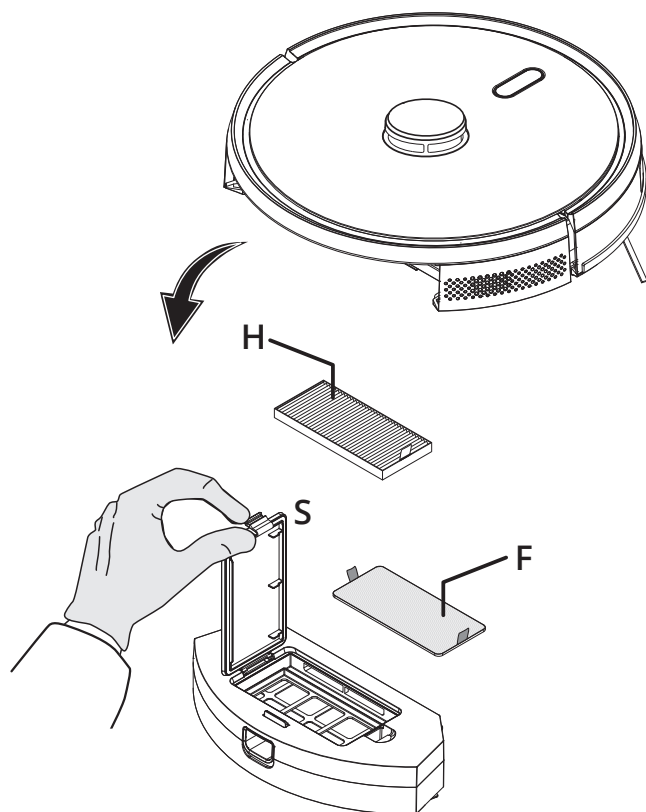
**Warning!**  
Filters shall not be washed.

### Hepa filter and sponge filter

1 - Remove the dust container and open the flap (S) of the filter compartment.

2 - Extract the HEPA filter (H) and the sponge filter (F).

3 - Clean each filter thoroughly by removing dirt residues.

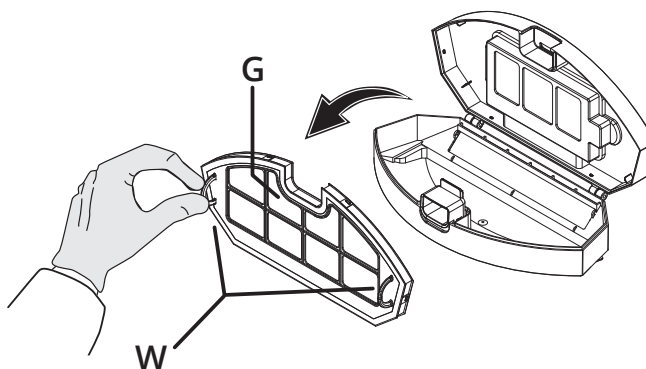


### Primary filter

1 - Open the dust container, empty it and clean it thoroughly.

2 - Extract the primary filter (G) by pulling the two rings on the side (W).

3 - Clean the filter thoroughly by removing dirt residues.



Wear personal protective garments before emptying the dust container or cleaning the filters and brushes.

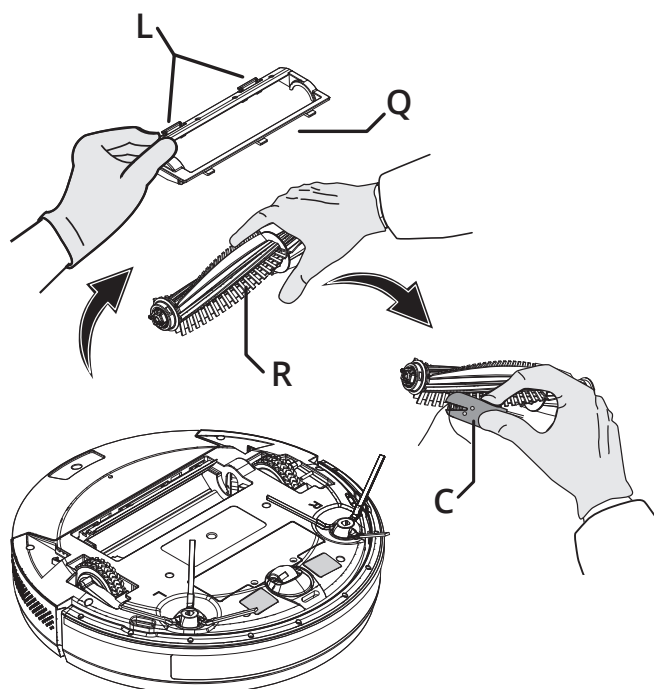


### 9.3. CLEANING/REPLACING THE BRUSHES

We recommend using the comb (C) supplied with cvROBO.

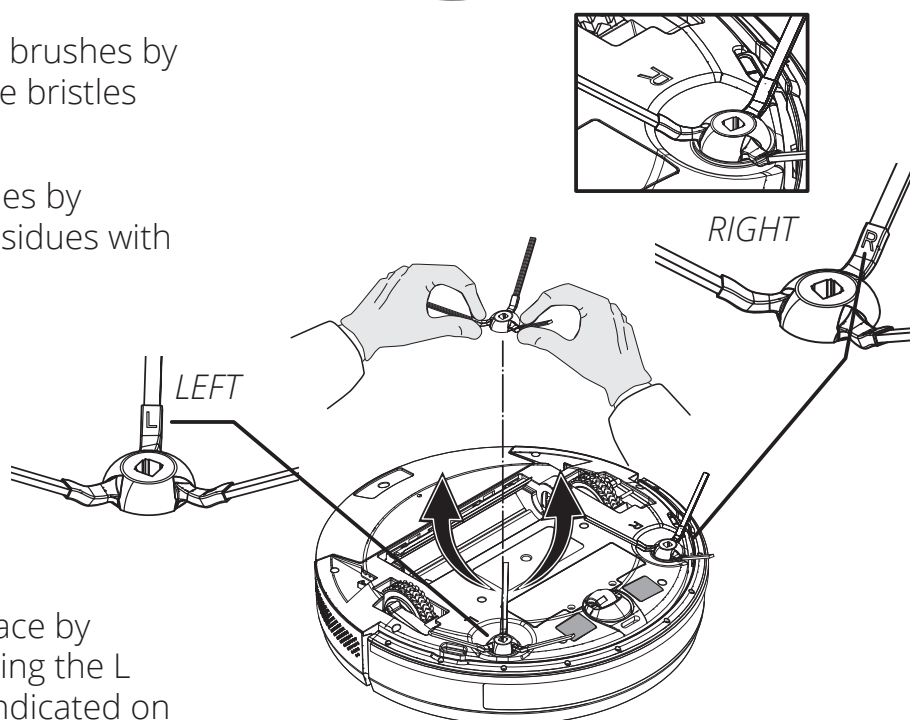
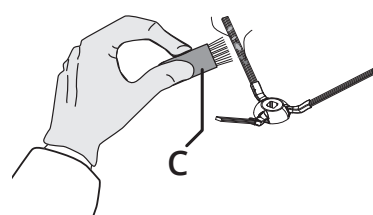
#### Cleaning the main brush

- 1 - Open the cover (Q) using the two levers (L).
- 2 - Extract the main brush (R) from its housing.
- 3 - Thoroughly clean the bristles of the brush by removing hair, threads and residues with the comb (C) supplied.
- 4 - Put the brush back into its housing and close the cover.



#### Cleaning the edge-sweeping side brushes

- 1 - Extract the edge-sweeping brushes by simultaneously pulling the side bristles with your hands.
- 2 - Thoroughly clean the bristles by removing hair, threads and residues with the comb (C) supplied.



- 3 - Put the brushes back in place by applying pressure and observing the L (Left) and R (Right) positions indicated on the bristle supports.



#### Warning!

Check the integrity of the brushes and replace them if they are broken.

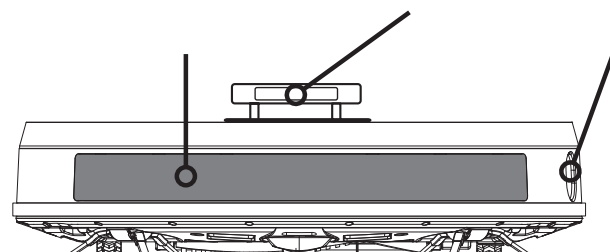
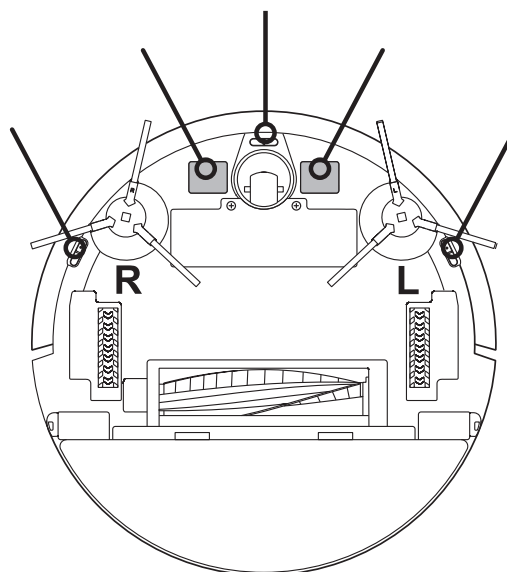
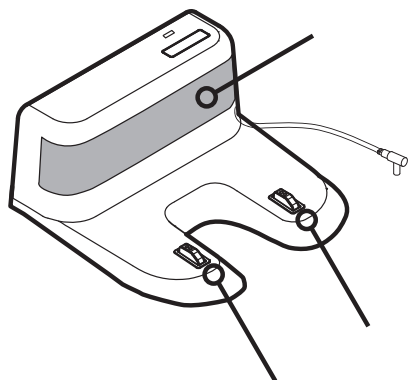


Wear personal protective garments before emptying the dust container or cleaning the filters and brushes.

## 9.4. CLEANING THE SENSORS

Use a damp cloth to clean all the sensors and indicated charging contacts on cvROBO and on the charging dock.

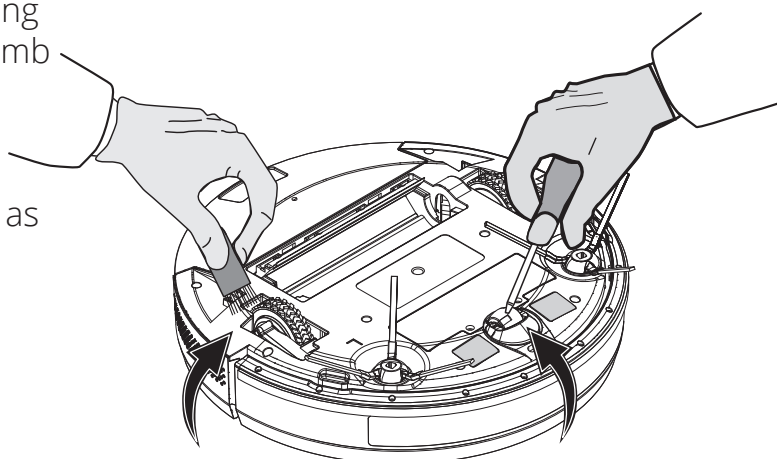
Do not use solvents or chemical products.



## 9.5. CLEANING THE WHEELS

Thoroughly clean the wheels by removing hair, threads and residues using the comb supplied.

Use a screwdriver to extract the front wheel and clean the residues properly, as shown in the picture.



### **Warning!**

Check the integrity of the brushes and replace them if they are broken.



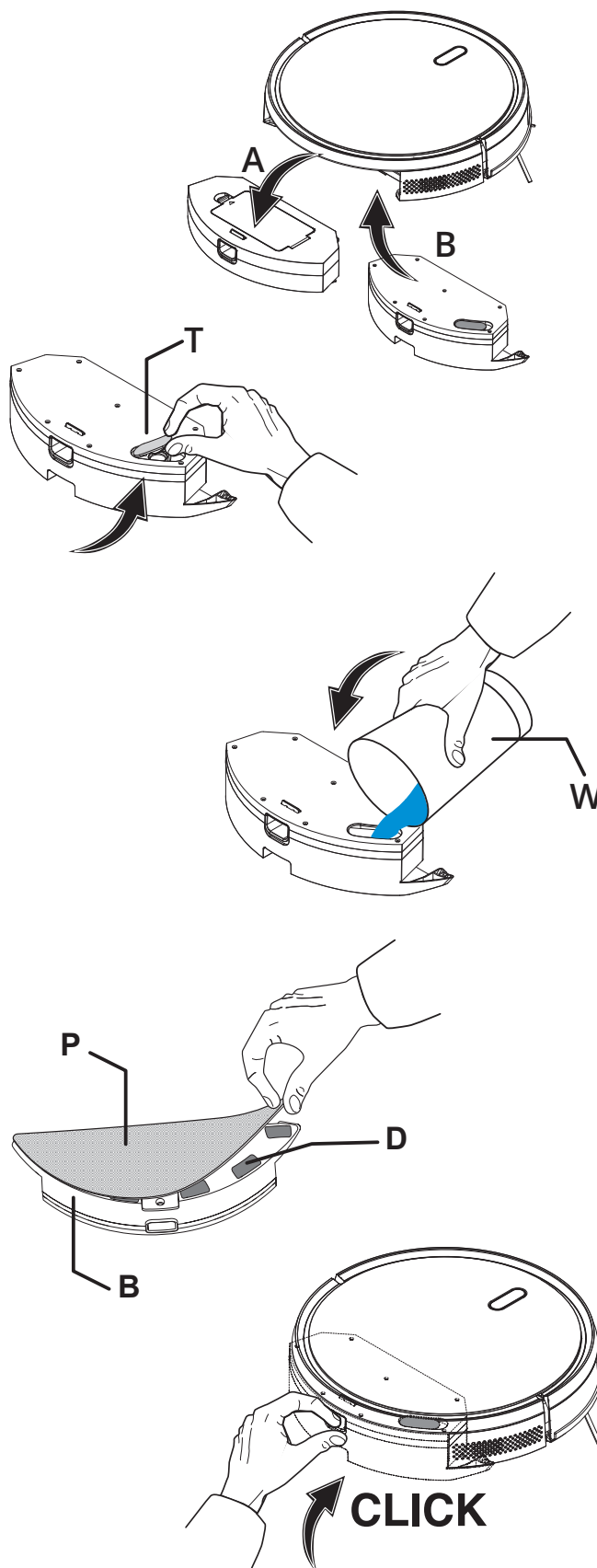
Wear personal protective garments before emptying the dust container or cleaning the filters and brushes.

## 9.6. TANK WITH WATER DISPENSER

Before using the FLOOR WASHING mode, the tank with the water dispenser must be filled with water and then emptied at the end of the washing cycle.

### Tank filling

- 1 - Extract the dust container (A) to insert the tank with the water dispenser (B).
- 2 - Open the cap (T) located on the top side of the tank.
- 3 - Pour water into the tank using a suitable container (W) and close the cap.



**Warning!** The tank with dispenser must be filled with water alone (at 30°C).

### Inserting the micro-fibre cloth (mop)

- 4 - Apply the floor mop provided (P) on the bottom side of the tank (B), making sure that the strips adhere properly to the Velcro fasteners (D).
- 6 - Insert the tank again all the way down until you hear a CLICK.

cvROBO will now be ready to wash the floors.



**Warning!** Once the washing cycle terminates, empty the tank of any residual water and wash the micro-fibre cloth.

## 10. Troubleshooting

Problem	Cause	Action
cvROBO does not clean	Main brush clogged	Check for any obstructions and clean the main brush
	Main brush worn out	Replace the brush
	Edge-sweeping side brushes worn out	Replace the brushes
	Filters very dirty or damaged	Clean the filters or replace them
cvROBO does not wash the floors	Insufficient water	Check the water in the tank
	Micro-fibre cloth worn out; with a worn cloth, water will not be dispensed evenly resulting in streaks and dripping	Replace the micro-fibre cloth
	Limescale residues inside the floor mop tank	Replace the floor mop tank or remove the limescale
	Other problem	Contact Flexit customer service
cvROBO blocks during cleaning	Edge-sweeping side brushes blocked	Check whether any filaments or objects are blocking their rotation
	Main brush blocked	Check whether any filaments or objects are blocking its rotation
	The anti-fall sensor is dirty	Clear the sensor from any dust or debris
	The side sensor is dirty	Clear the sensor from any dust or debris
	The front sensor is dirty	Clear the sensor from any dust or debris
	The front collision guard is jammed	Carefully strike the collision guard repeatedly to remove any debris
	Side wheels blocked	Clear the side wheels from any dust or debris Push the wheels in and out and check that they turn freely
Abnormal noise in use	Main brush, side brush or wheel may be twined by foreign matters, please shut down the robot and remove foreign matters.	Turn off the robot and clean them of dust or debris
Fixed-time cleaning fails	Battery level is less than 30%	Charge the battery (see page 7)

Problem	Cause	Action
cvROBO does not return to its base	The charging dock is not powered	Check the power supply connection
	The communication sensor of the charging dock is dirty	Clear the sensor from any dust or debris
	cvROBO communication sensor dirty	Clear the sensor from any dust or debris
	Other problem	Contact Flexit customer service
With cvROBO on the docking station for emptying the dust container, the central vacuum unit does not start	Connection problem between the charging dock and docking station	Verify whether the connector is properly connected on the self-cleaning base
	Connection problem between the vacuum socket and docking station	Check that the hose wall cuff is properly inserted on the vacuum socket
	Connection problem regarding the central vacuum unit activation	If there is a wireless system Verify whether the transmitter is correctly inserted on the docking station: at the start and end of the dust container emptying cycle, the transmitter's LED flashes red
		If there is a wireless system Check the pairing configuration between the transmitter and receiver
	Other problem	Contact Flexit customer service
During the automatic emptying of the dust container, the valve on the base fails to open	Connection problem between the charging dock and the docking station	Check that the charging dock and the docking station are properly connected to one another
	Valve obstructed	Check for any debris on the valve and eliminate it
	Other problem	Contact Flexit customer service
When cvROBO returns to the docking station, it does not automatically activate emptying of the dust container	The automatic cleaning function of the dust container is disabled	Enable the container's automatic cleaning function (see instructions on page 6)
	The communication sensor of the charging dock is dirty	Clear the sensor from any dust or debris
	Other problem	Contact Flexit customer service

Problem	Cause	Action
cvROBO entered a forbidden area	Positioning error	
	The robot may intrude into the restricted area due to positioning errors, abnormal sensors and other reasons	Try not to move or interfere with the robot during cleaning.
	The permanent restricted area would be lost when the map is rebuilt	Reset forbidden zones
WiFi cannot be connected	WiFi signal is bad	Ensure is covered by Wi-Fi signal
	WiFi is connected abnormally	Reset Wi-Fi, download the latest cvROBO app. and try to reconnect it
	Password is inputted incorrectly	Repeat the process
	The router is available for 5G frequency band, the cleaning robot is available for 2.4G frequency band only	Robot is available for 2.4G frequency band only

## 11. Complaints



**Warranty claims will only be valid if the instructions in the manuals have been followed.**

Complaints about this product may be raised in accordance with the applicable terms of sale, provided that the product has been used and maintained correctly. The right of complaint may be voided if the product is used incorrectly or maintenance is grossly neglected.

Complaints as a result of incorrect or defective installation must be submitted to the installation company responsible.

Filters, brushes, mop and battery are consumables.

Before contacting the vendor, check the designation label and note down the Flexit serial number. The designation label is located on the bottom side.

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Our products are subject to continuous development and we therefore reserve the right to make changes.

We also disclaim liability for any printing errors that may occur.

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Declaration of conformity is on the website, [www.flexit.com](http://www.flexit.com)

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## 12. Waste handling

The product and manufacturing complies with current international environmental regulations such as WEEE and RoHS directive.



The symbol on the product shows that this product must not be treated as household waste. It must be taken to a reception station for recycling of electric and electronic equipment.

By ensuring the correct disposal of the equipment, you will contribute to preventing the negative consequences for the environment and health that incorrect handling may entail.

For further information on recycling of this product, please contact your local authority, your waste disposal company or the company from which you purchased it.









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