REEF FACTORY

Smart roller

User manual

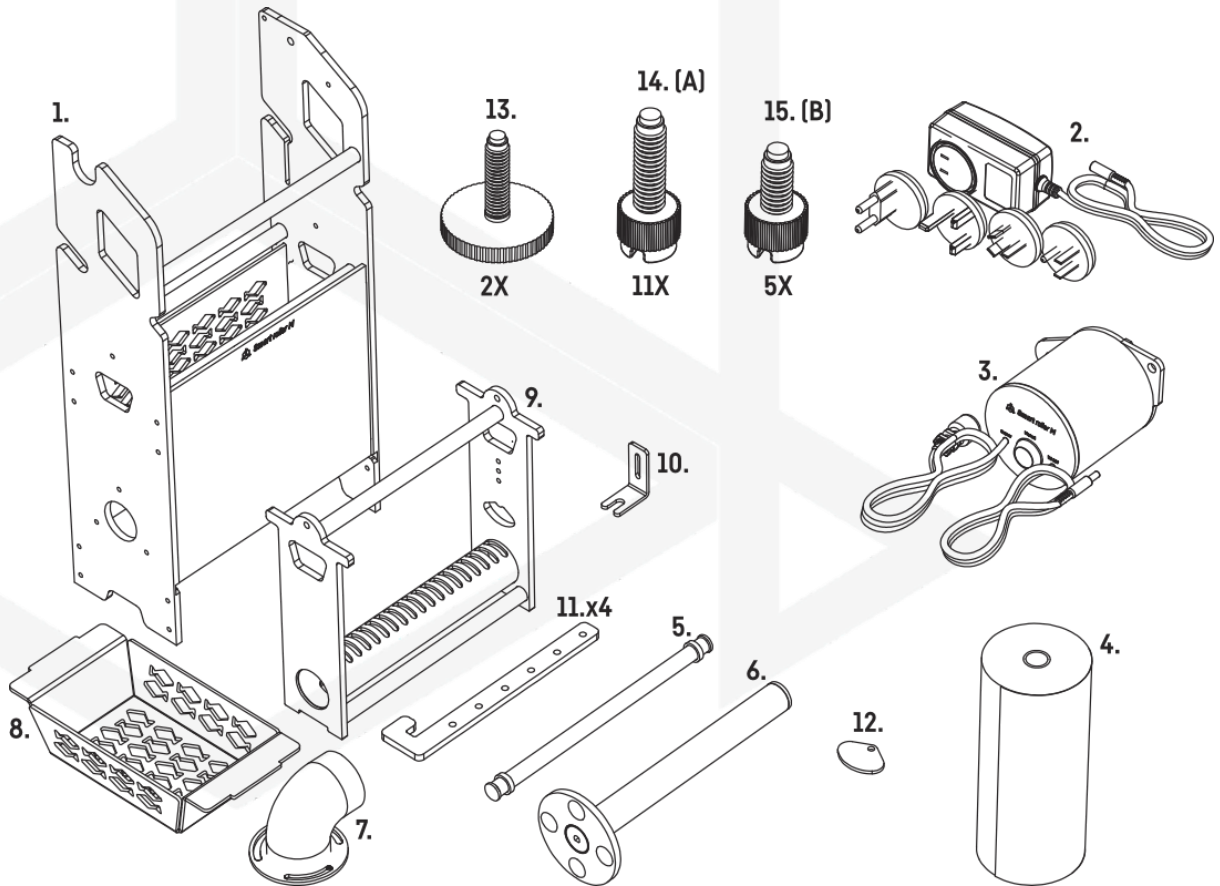Dear customer, thank you for your purchase.

ENGLISH

www.reeffactory.com

Table of Contents

⚠ **IMPORTANT NOTICE!** Please read the entire user manual very carefully before setting up and using the device. There may be slight differences in the content between what is presented on the screen of the device and the descriptions in the manual

I. Contents of the set

1. housing Smart roller
2. power supply
3. drive with a liquid level sensor non-
4. woven fabric
5. roll for clean non-woven fabric
6. roll for winding used non-woven fabric
7. water inlet connection
8. filter media
9. basket non-woven fabric tensioning basket
10. liquid level sensor holder
11. legs for mounting Smart roller
12. flow adjustment flap
13. screw locking the basket
14. screw type A
15. screw type B

II. Installation of the device

1

2
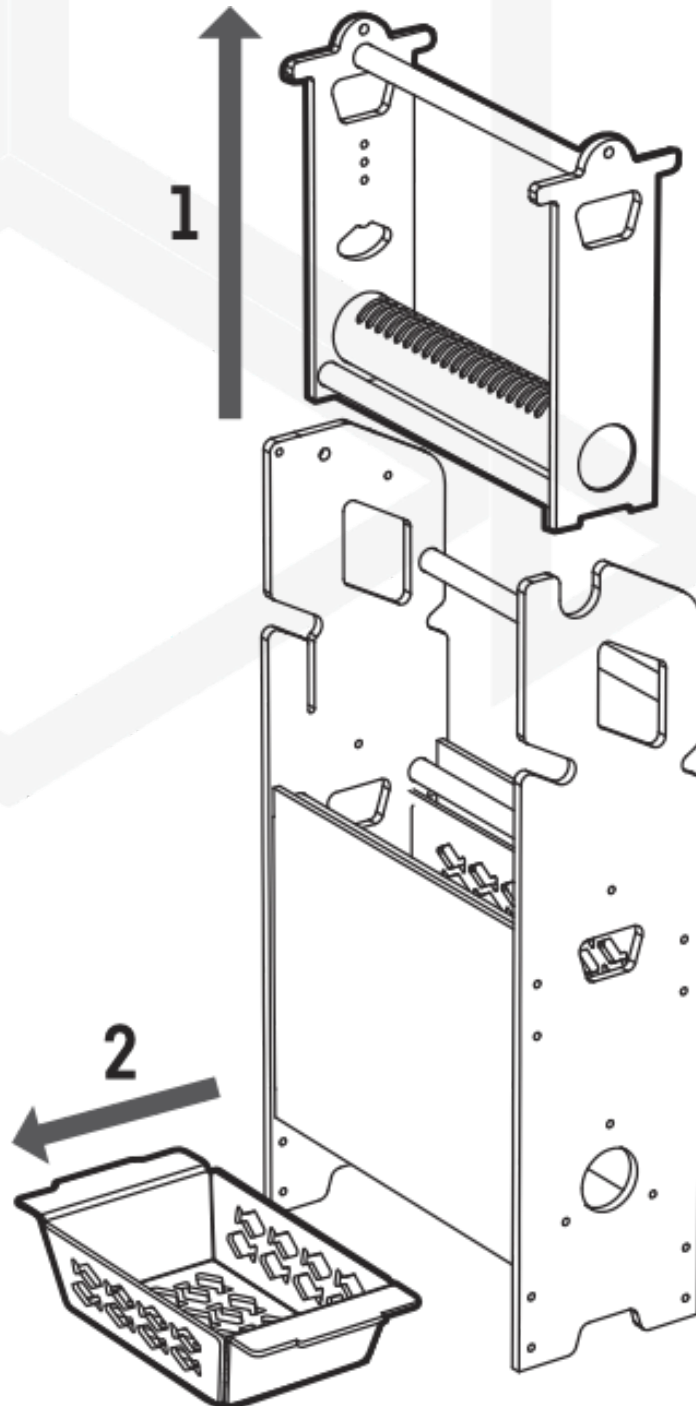
Pull out the basket stretching the fleece and the basket for filter media and absorbers.

A **B**
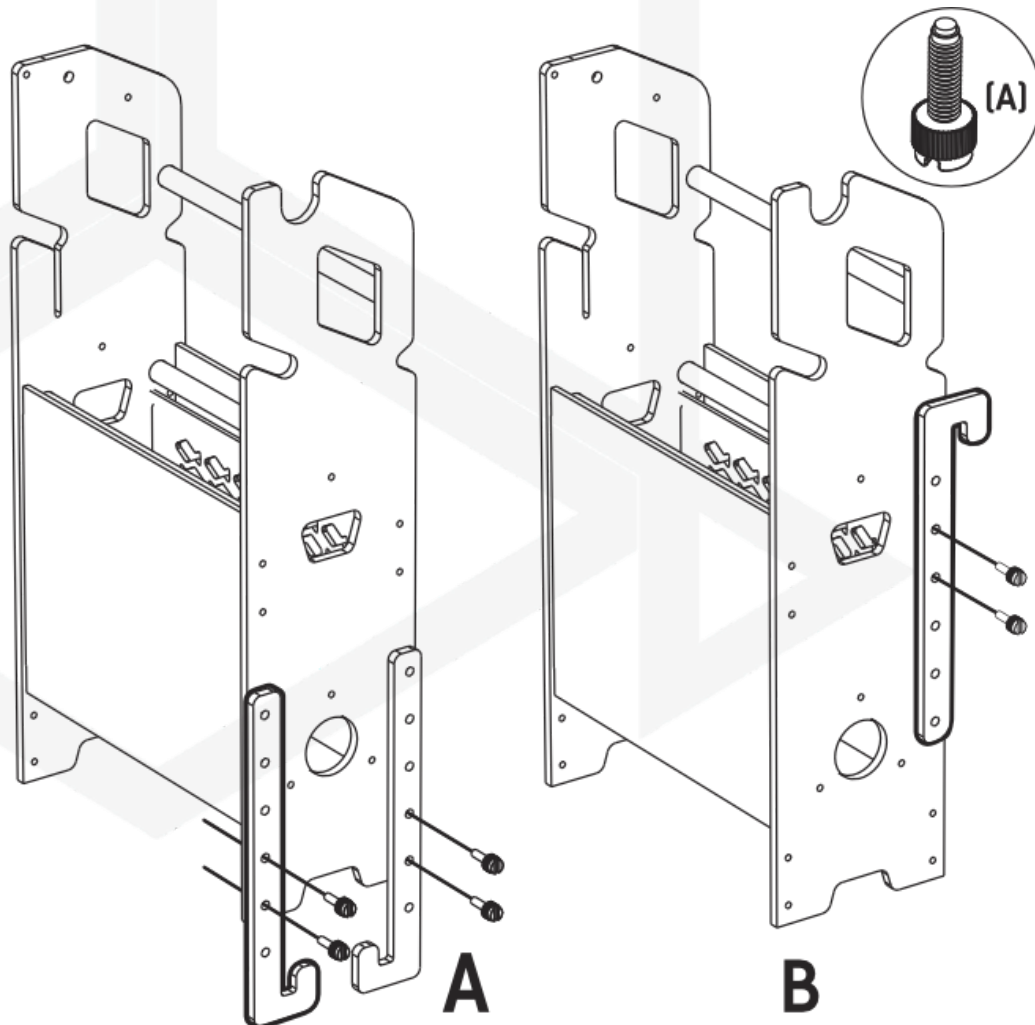
Tighten the mount using longer screws (type A) so that the device is at the correct height when standing or hanging. The water line marked on the device must be level or a maximum of 2 cm above level in the tank.

If you want to mount the device on legs, screw them according to picture 1. If you want to hang the device, screw the brackets according to picture 2.

ⓘ You can use a screwdriver to insert the screws. Pay particular attention to the force with which the plastic parts are screwed in, so as not to damage them.

(B)
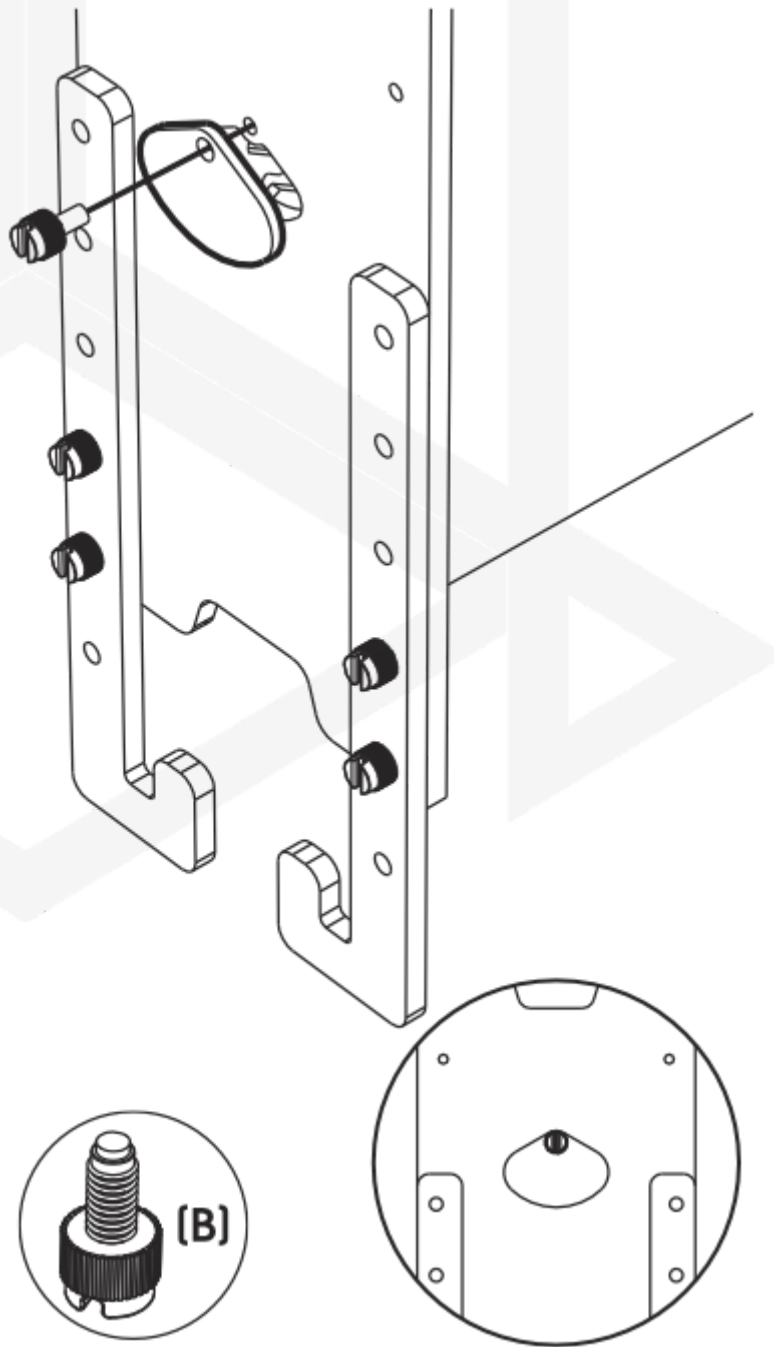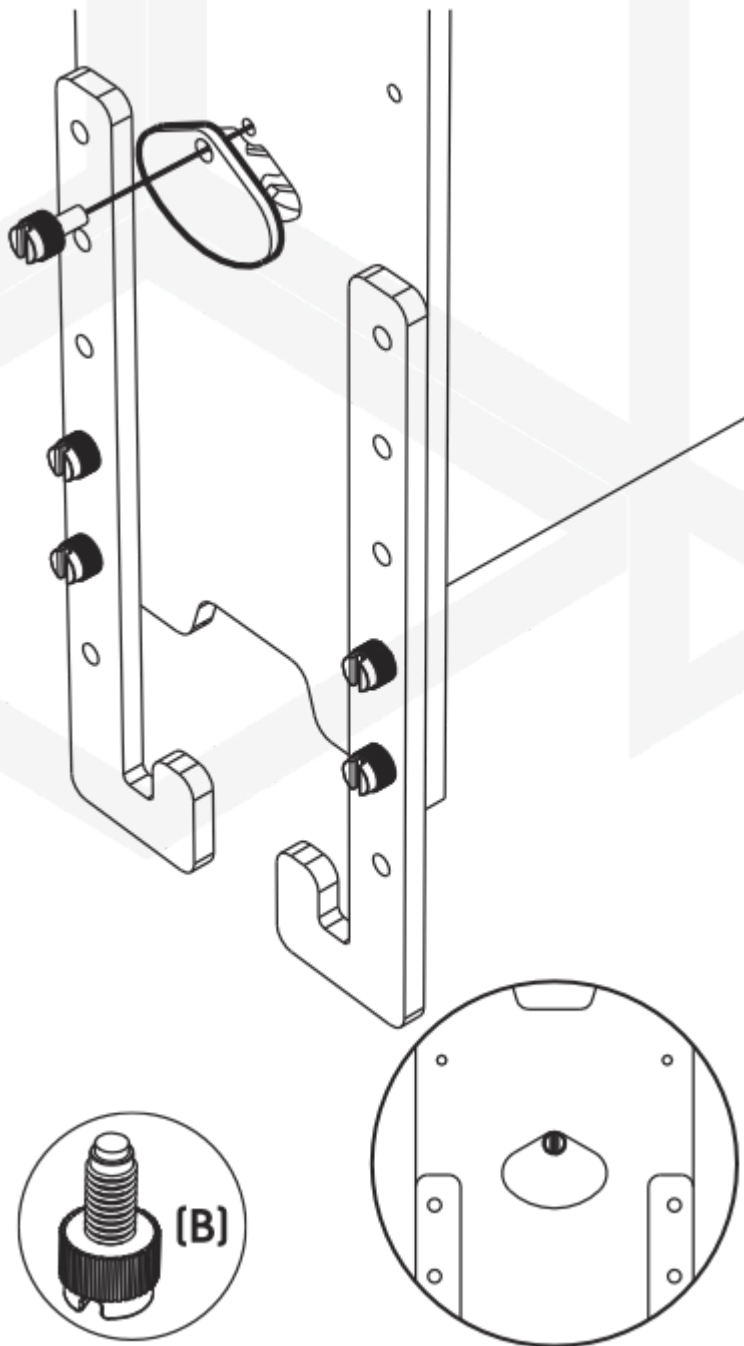
Using the shorter screw cover flow adjustment to the closed position.
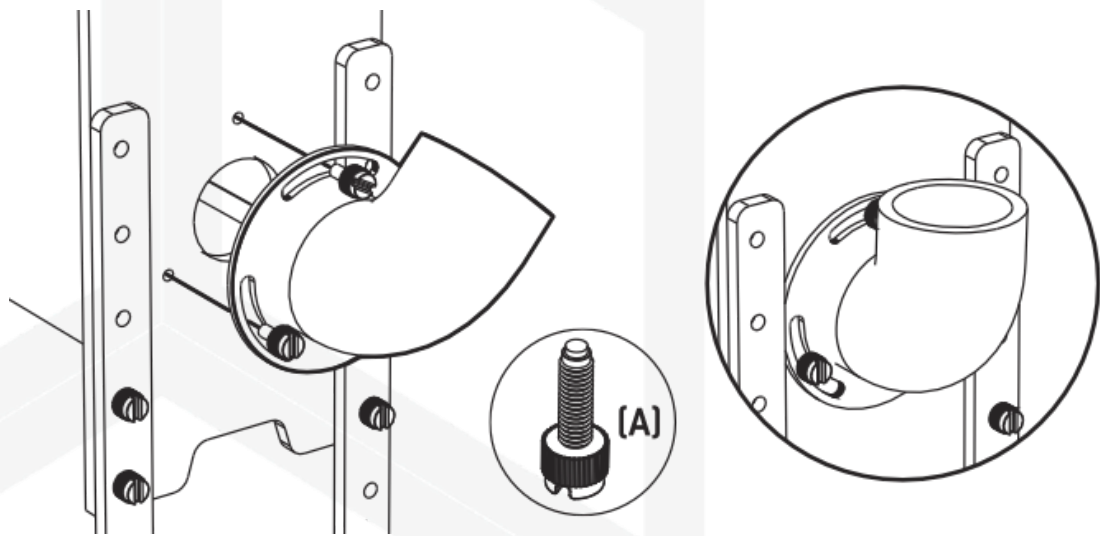
Use the 3 longer screws (type A) to fix the water inlet port.
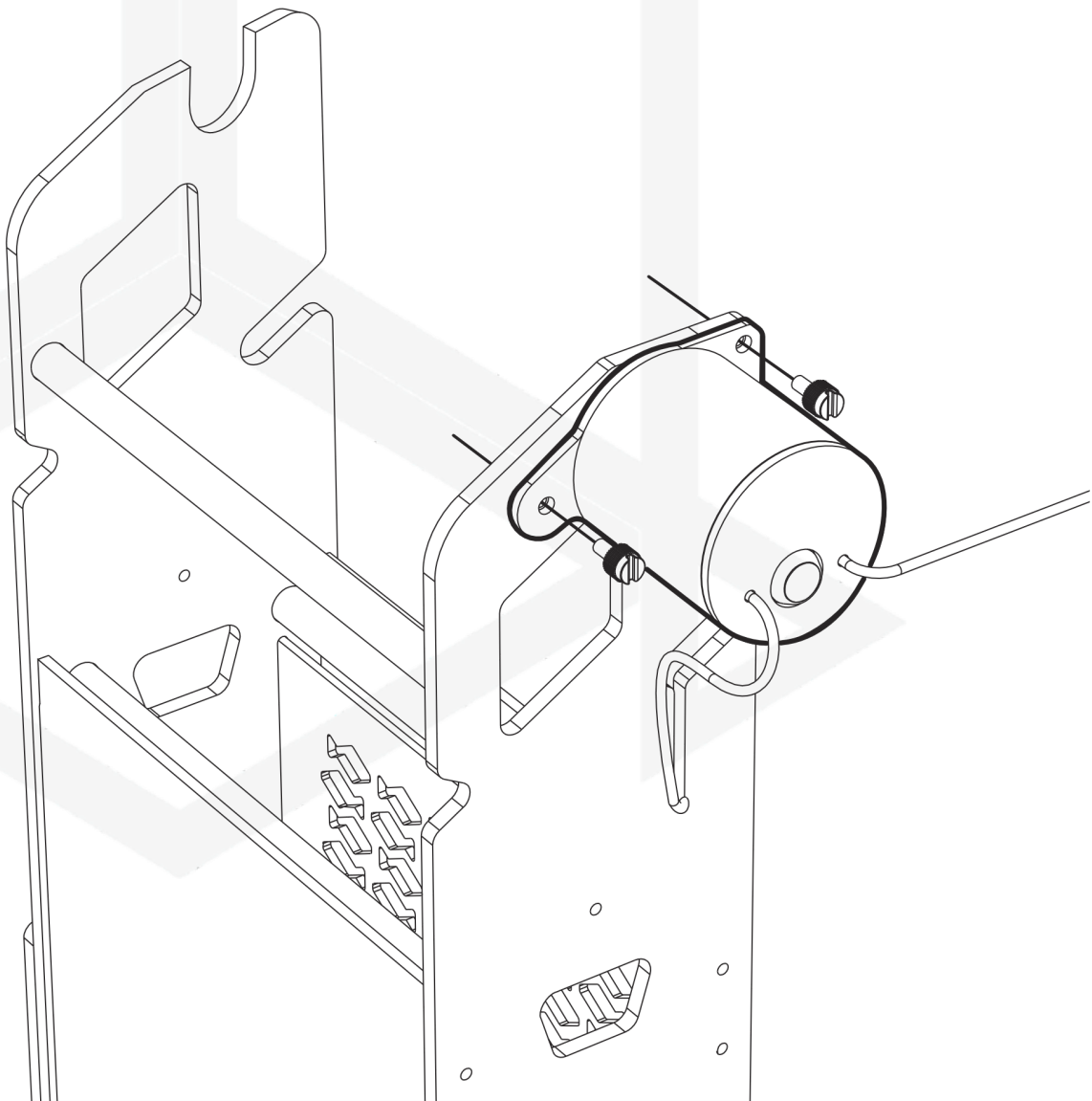
Using the shorter screws (type B), screw the take-up roller drive to the dedicated place.
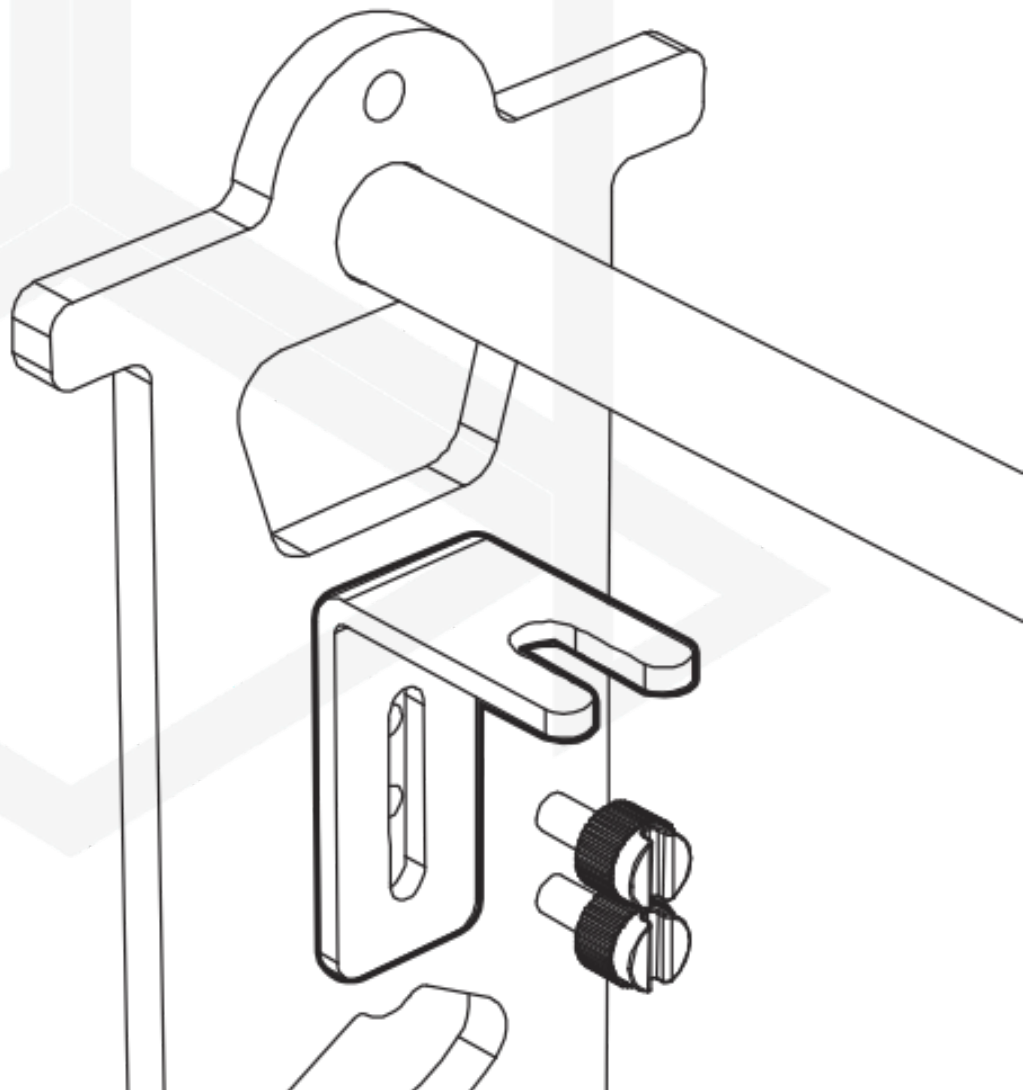
Use the shorter screws (type B) to screw the liquid level sensor bracket to the basket.
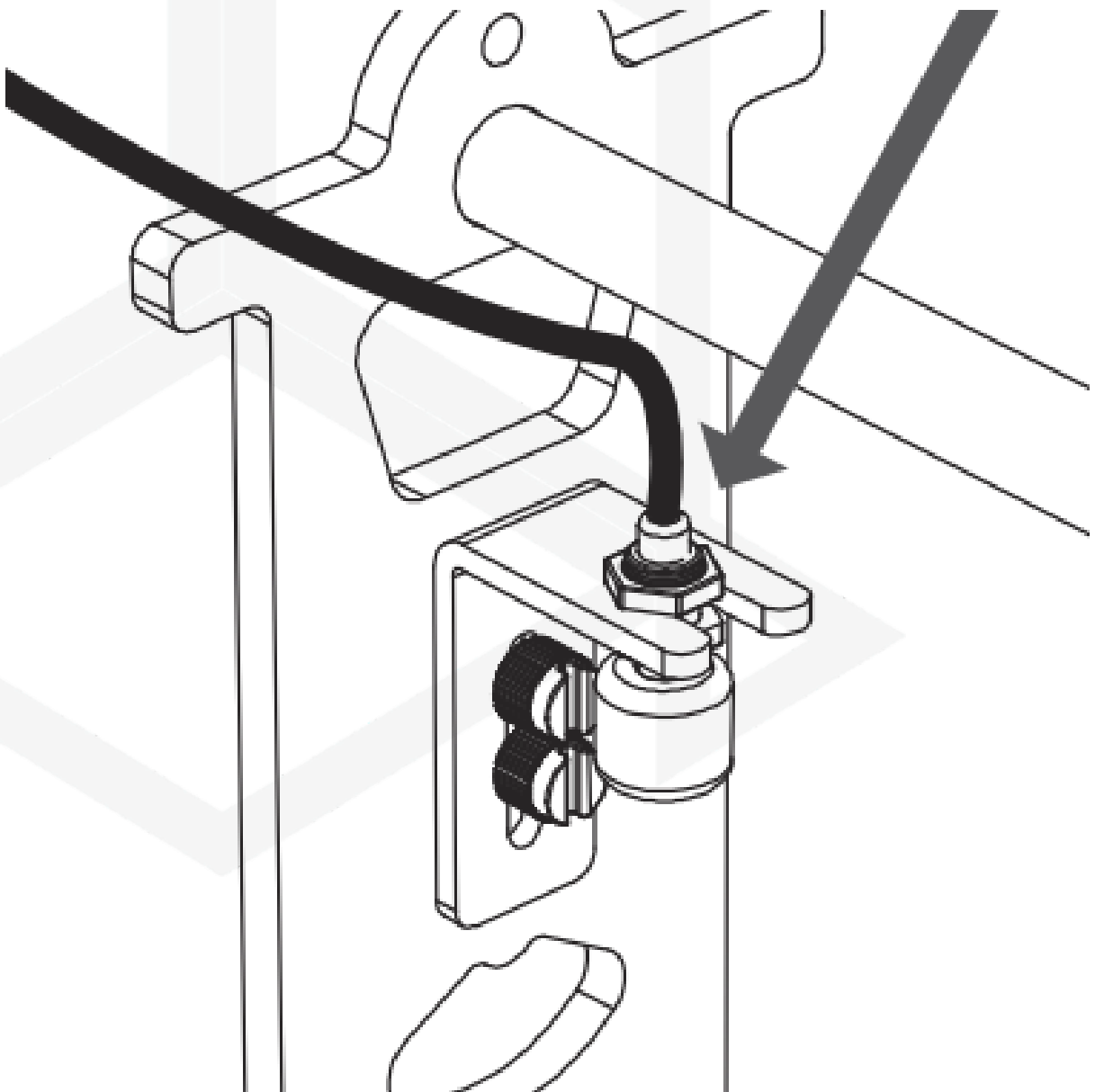
Unscrew the nut on the liquid level sensor, insert it into the holder and tighten it.
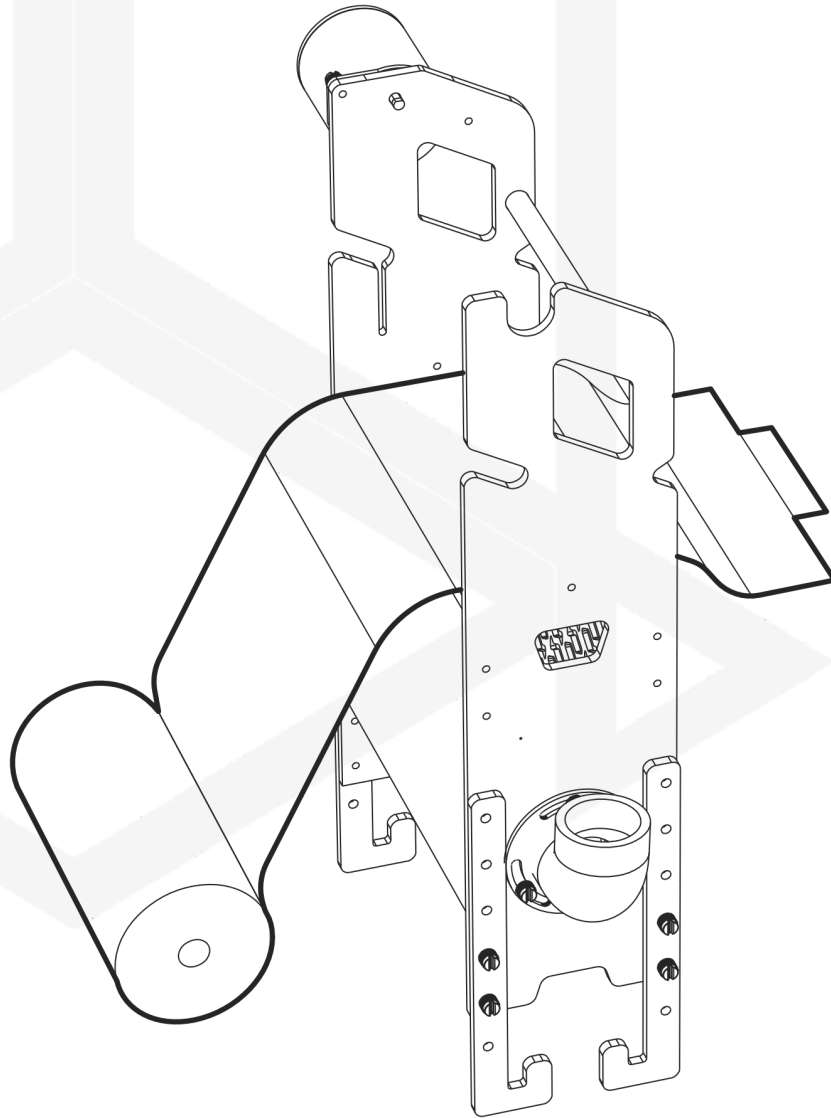
Unpack the fleece roll without damaging the sticker and pass the fleece through the device. Leave a minimum of 30 cm of fleece on the right side.
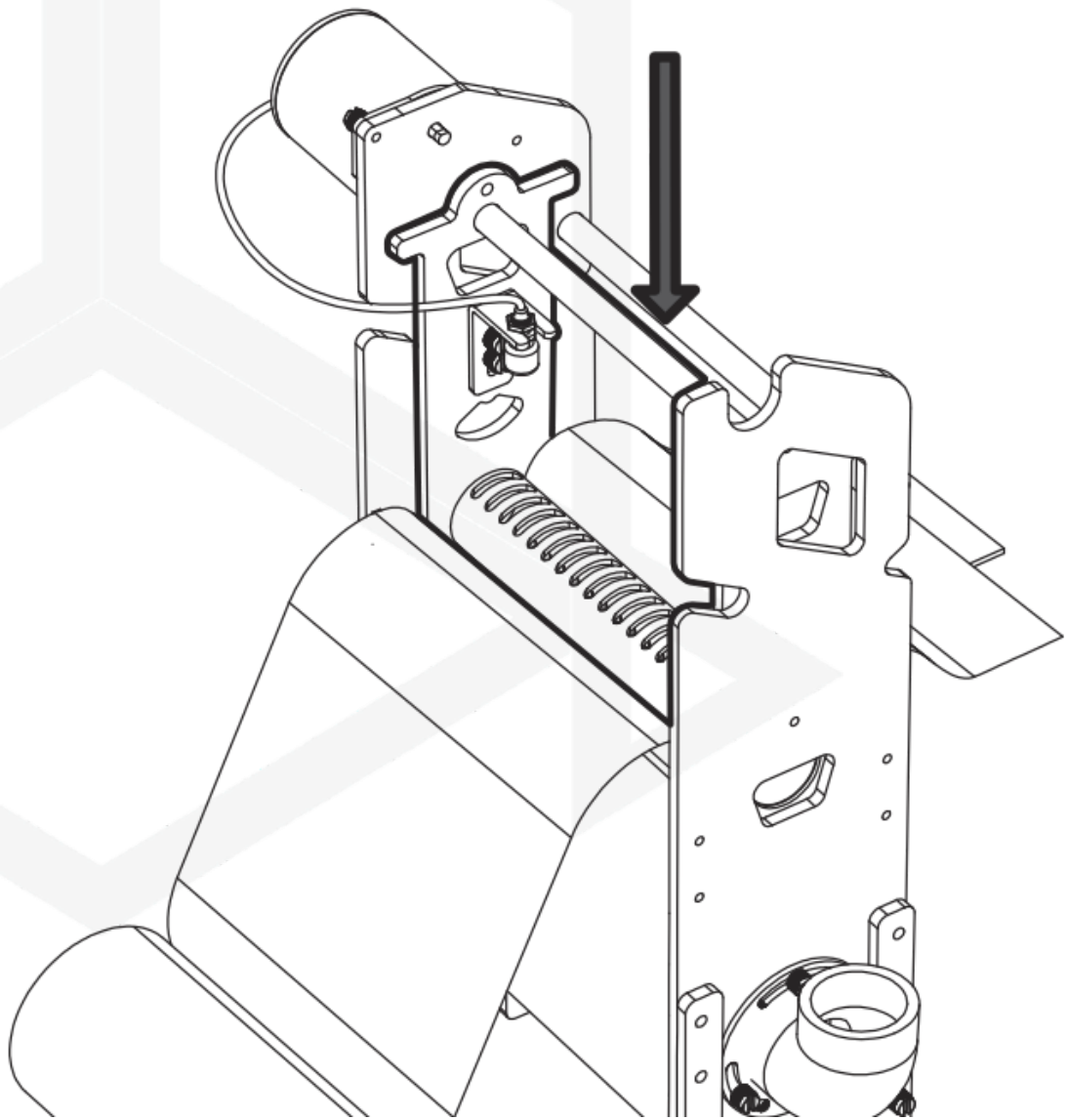
Put the fabric tension basket in place. Make sure the sensor is on the motor side.
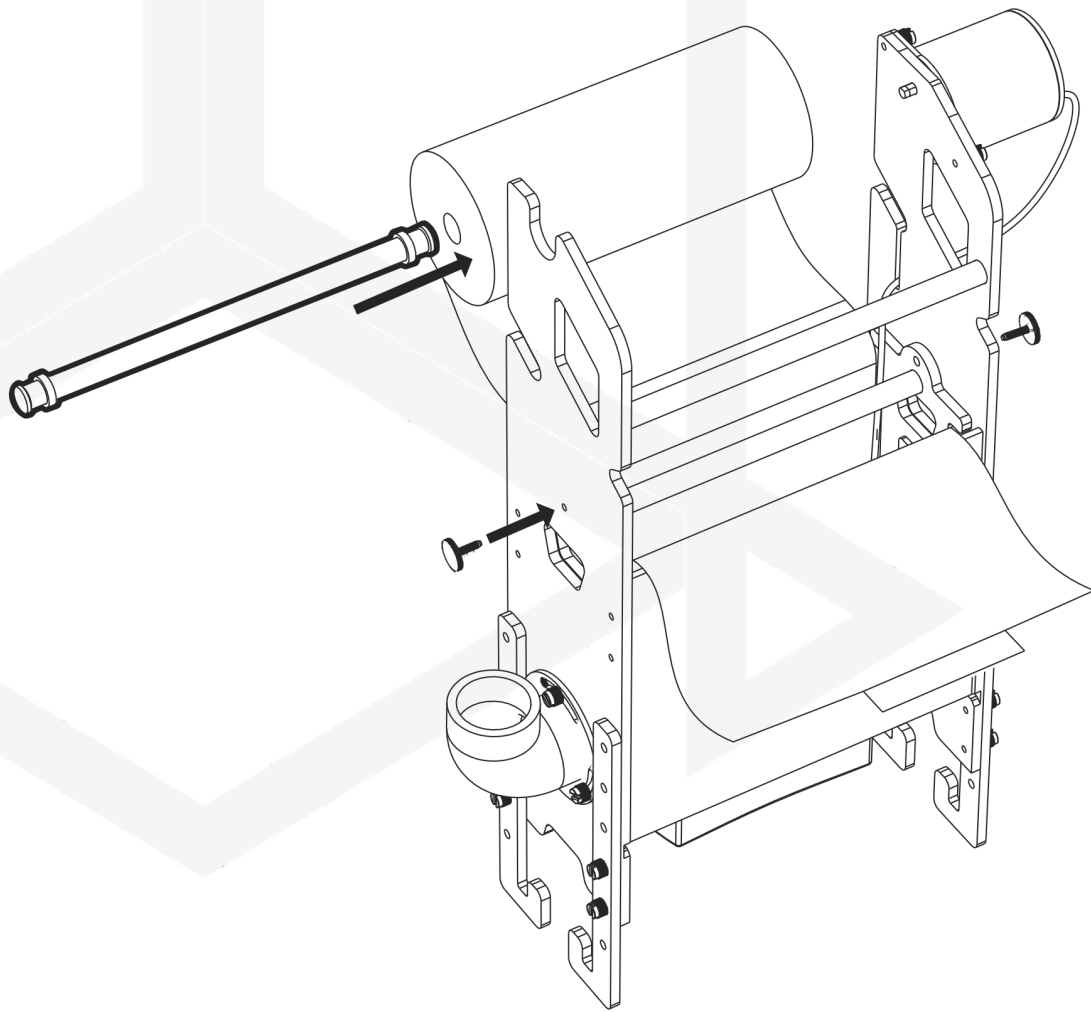
Tighten the flat screws to lock the basket in place, then thread the roll through the fleece.
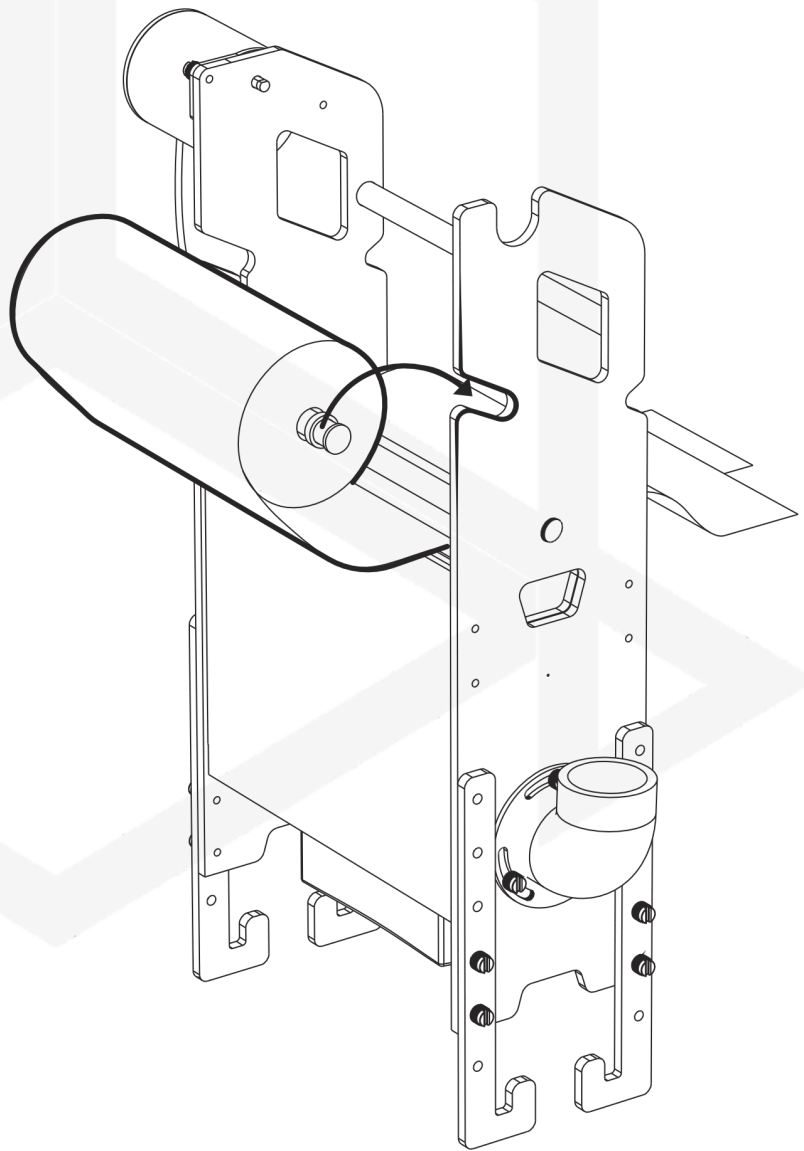
Place the roll in the dedicated holder.
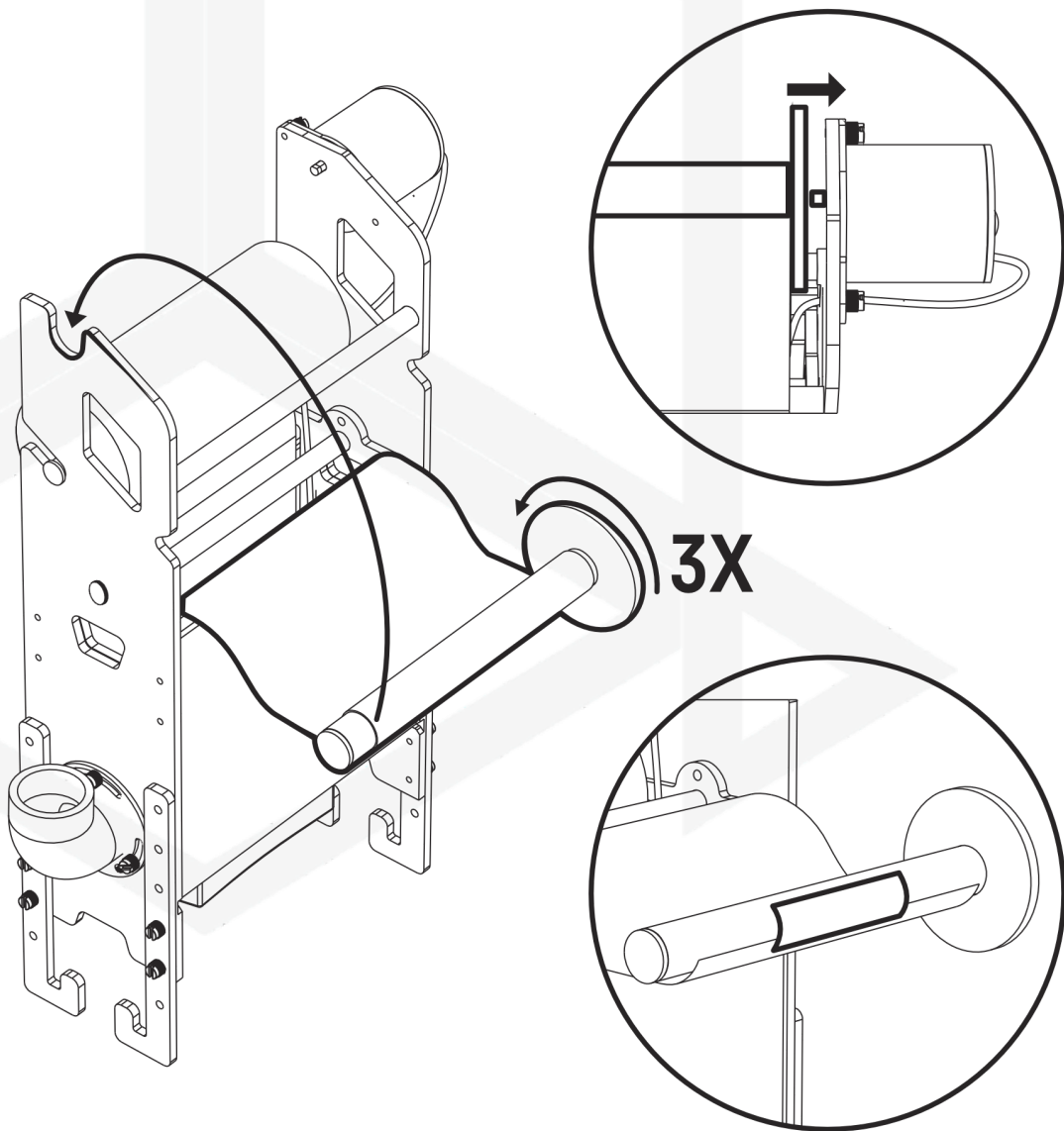
Glue the non-woven fabric to the roll in the winding direction and wind 3 layers.

Install the take-up reel in place and press down on the motor pin.

Pay attention to the shape of the pin, it has a special notch to prevent the motor from slipping. Insert the roll by aligning the 2 pieces together.
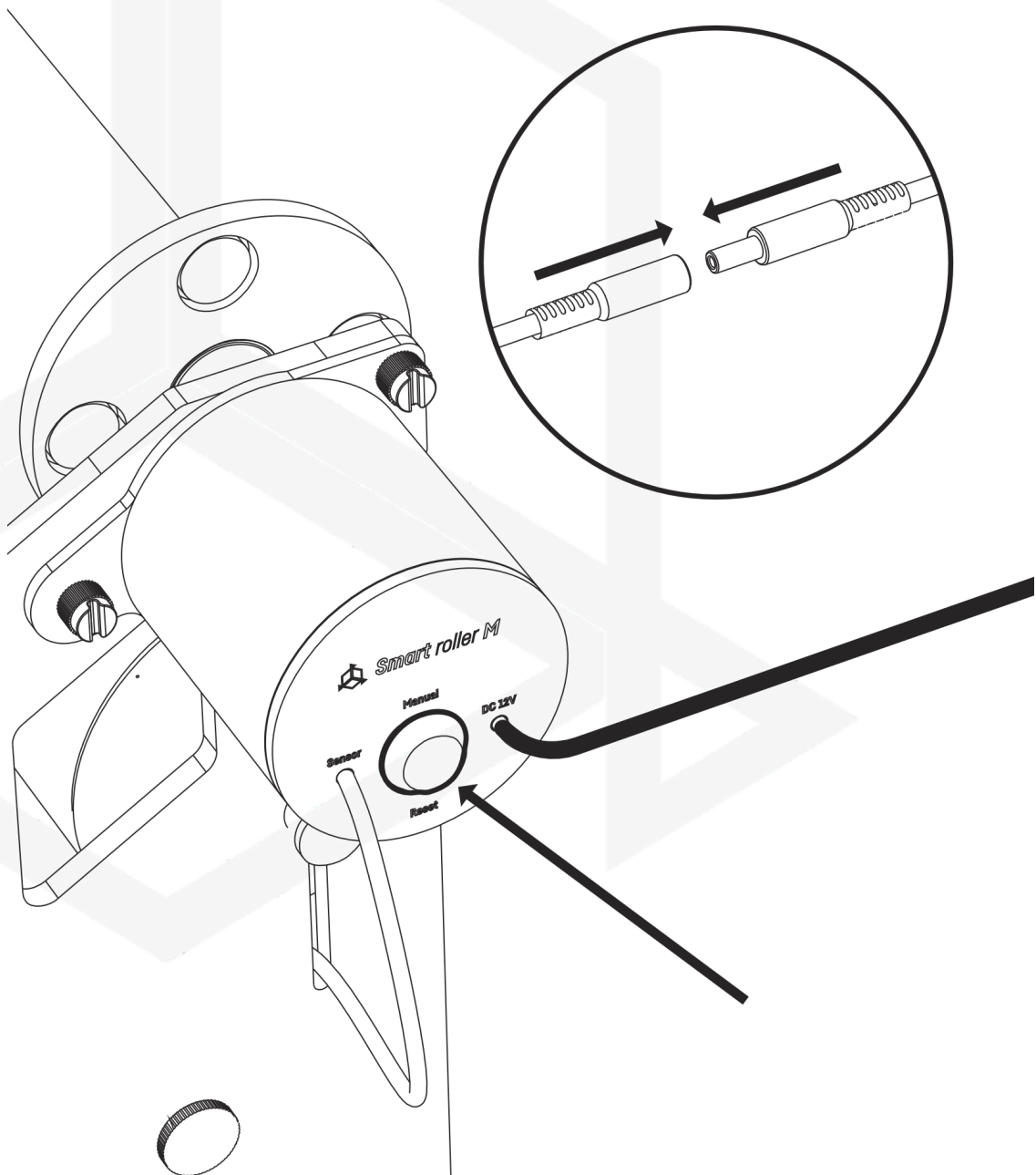
Connect the device to the power adapter and mains power and tighten the roller while holding down the "Manual" button.

⚠ Manual winding should only be carried out with the roll on the non-woven fabric. Its absence will block the device.
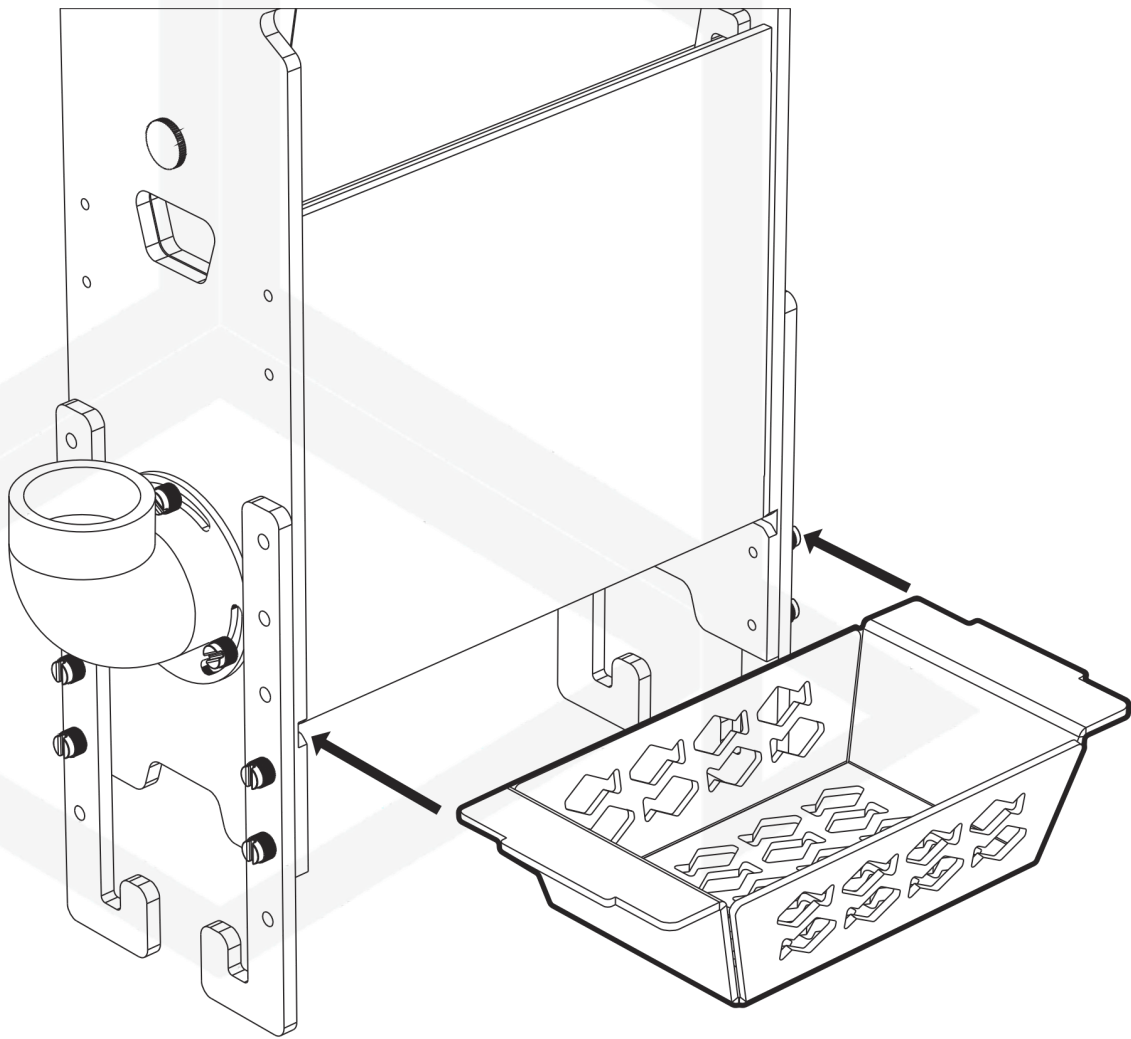
Place the media basket in the housing, lift and insert the basket into the anti-slip notches.
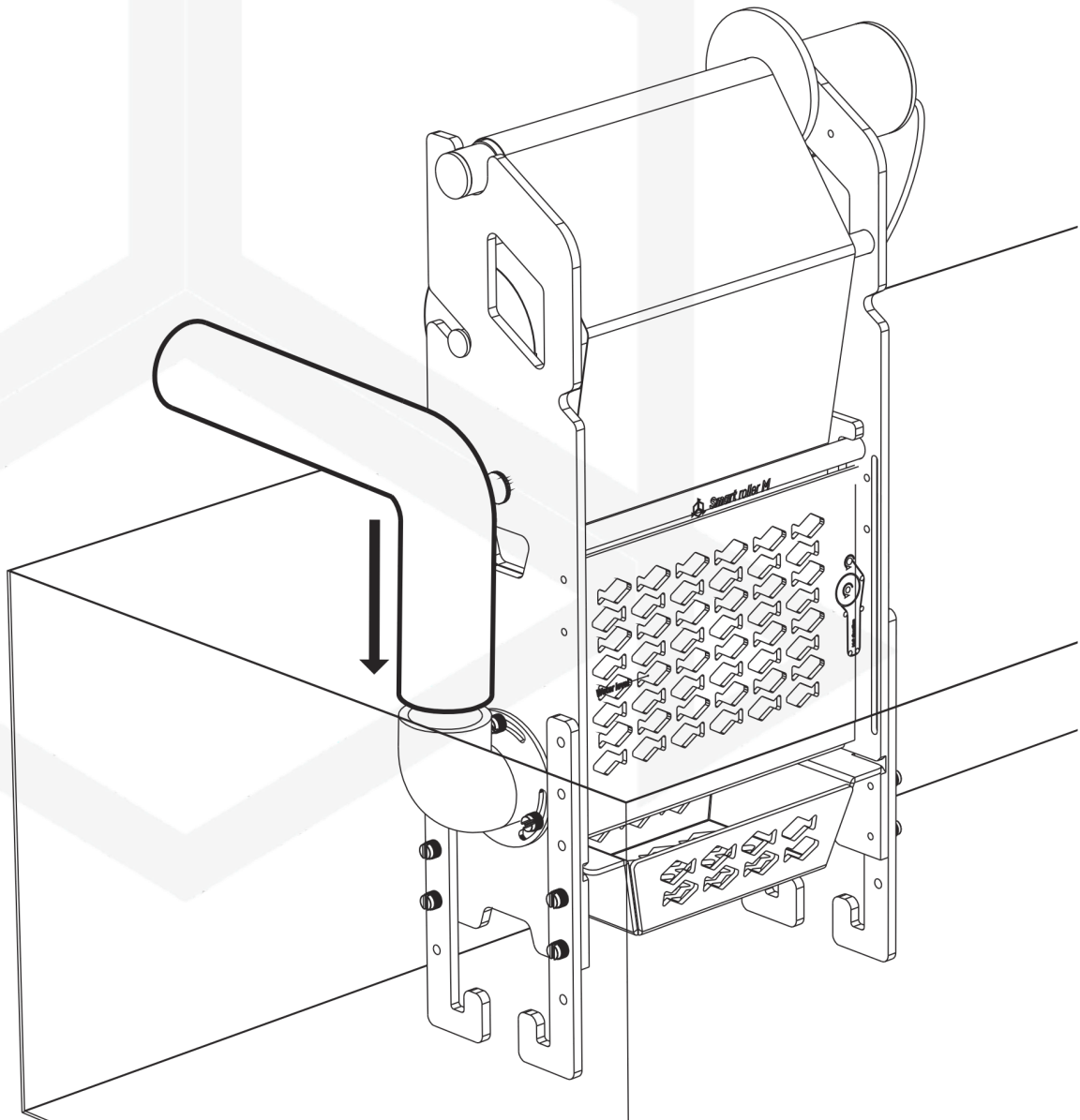
Install device in the sump and connect the water supply.

The connection is adjustable in angle and diameter. Adjust the connection to your needs.
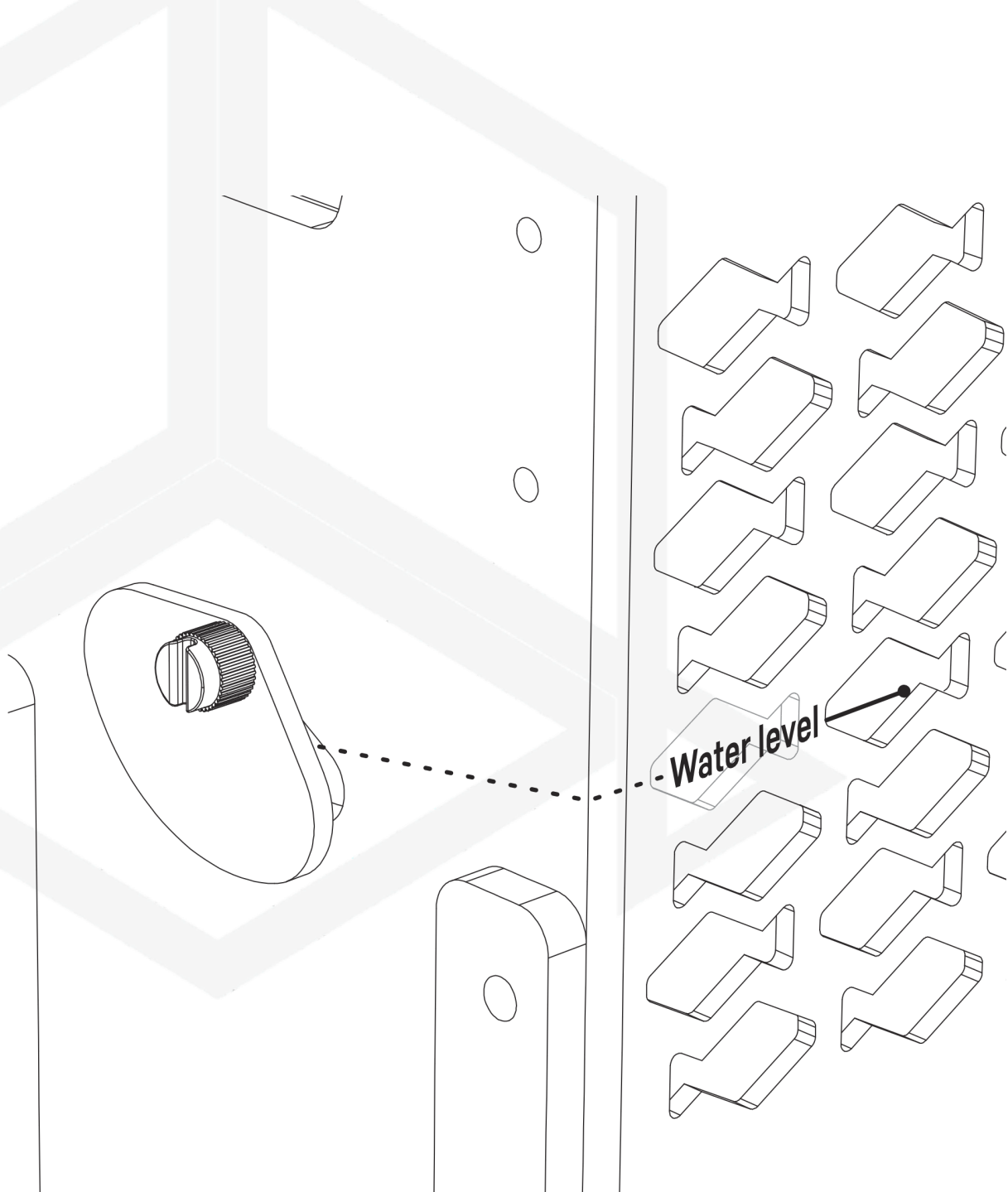
Water level

When the water drain level is stable, adjust the water level in the device by sliding the flap so that the water inside the device is at the "Water level".

Connect the device to the power supply and go to device configuration.

III. Initial configuration

To connect the device to your account using the Smart Reef app, the device must be connected to power and within range of your home network, and your phone or tablet. You can download the app from the Play store and the App store.

1. open the Smart Reef app on your mobile device and log in.

If you do not already have a Smart Reef account,
select **"Create a free account"**.

Enter the email address you want to use in the Smart Reef application as well as the password, and then repeat it.

> **i** If you don't want to, log in every time you launch the application, check **"Keep me logged in"**.
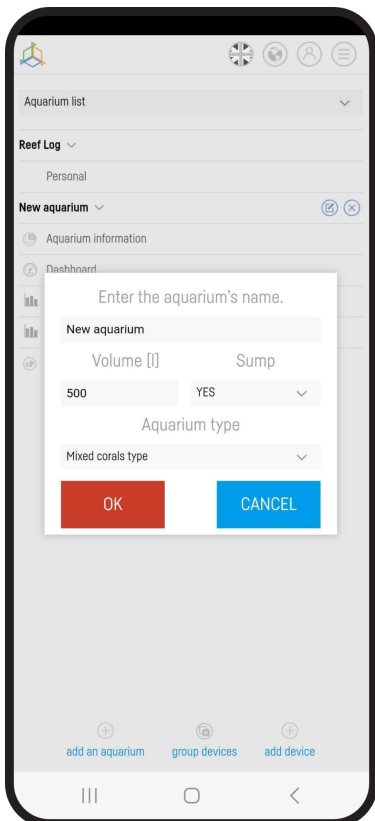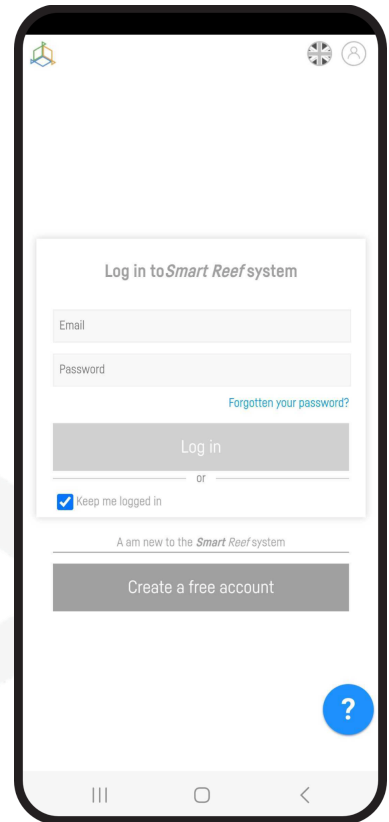
2. Create your aquarium in the Smart Reef app.

If you do not have your aquarium yet, use the option "Add an aquarium" in the lower left corner of the screen and provide the necessary information.

> **i** If you already have your aquarium in the Smart Reef app, proceed to the next step.

Smart roller manual

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3. Add the device to your Smart Reef account

From the list of aquariums or the list of devices
in the lower right corner of the screen,
select **"add device."**

Allow the app to use your exact location when
using the app. This allows the app to connect devices
to Wi-Fi networks more easily.
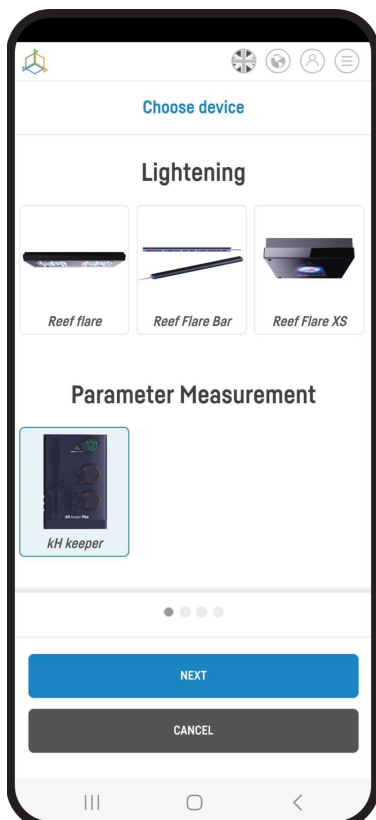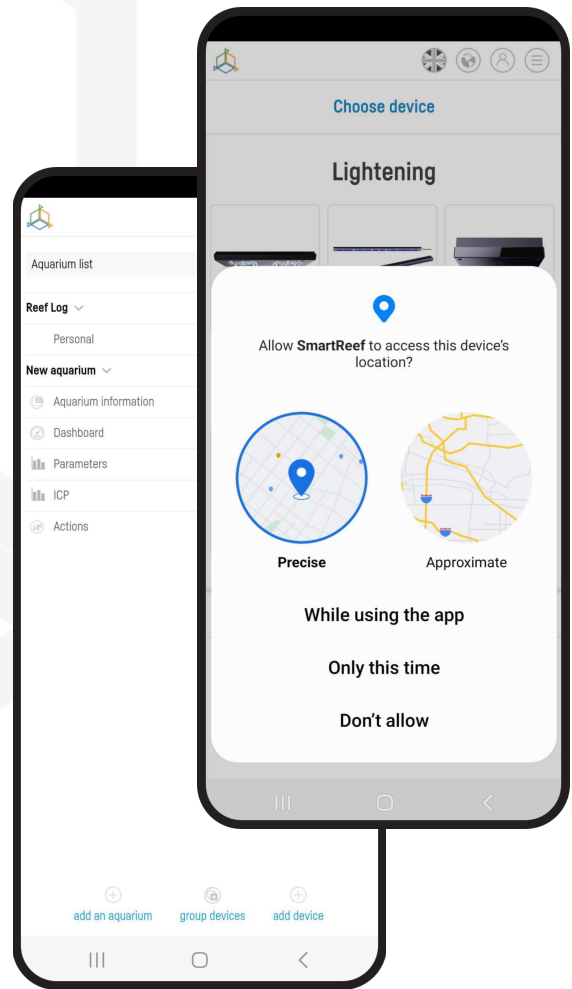
Select from the scrolling list the device you want to add to your

Smart Reef account and press **"NEXT"**.

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4. Set up a Wi-Fi connection to your home router.

Enter the exact Wi-Fi network name of your home router.

Then enter the password for your home router, if required, and press **"NEXT"**.

> **i** Pay attention to uppercase and lowercase characters.
> **NOTE:** Special characters may not be supported if the name or password for your router contains such characters, change them in your router's settings.

> **≡** **NOTE:** Reef Factory devices only support the 2.4 GHz Wi-Fi network band. If your router generates 2.4 GHz and 5 GHz bands, indicate the name of the 2.4 GHz network.
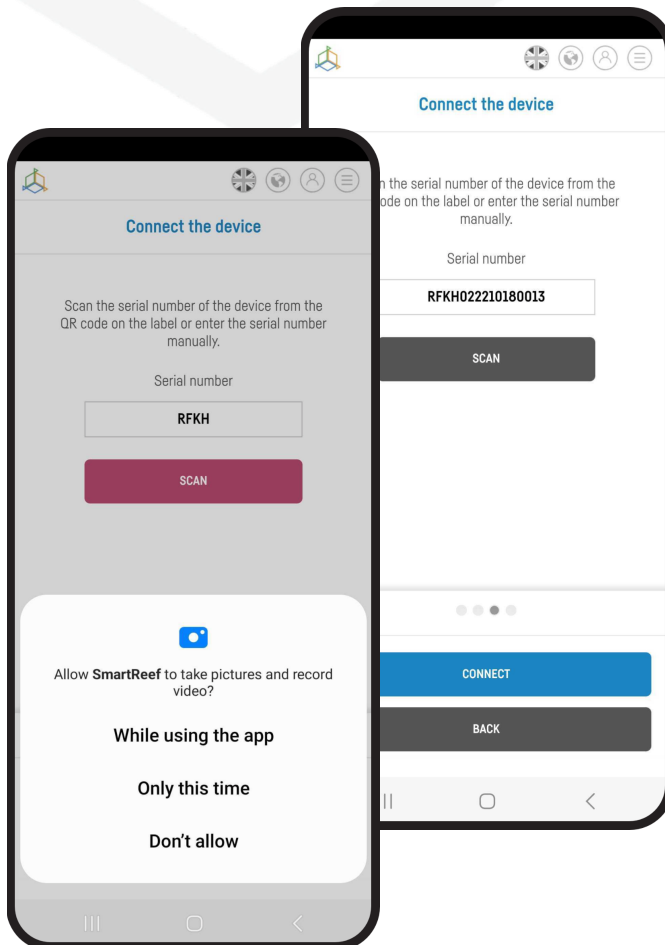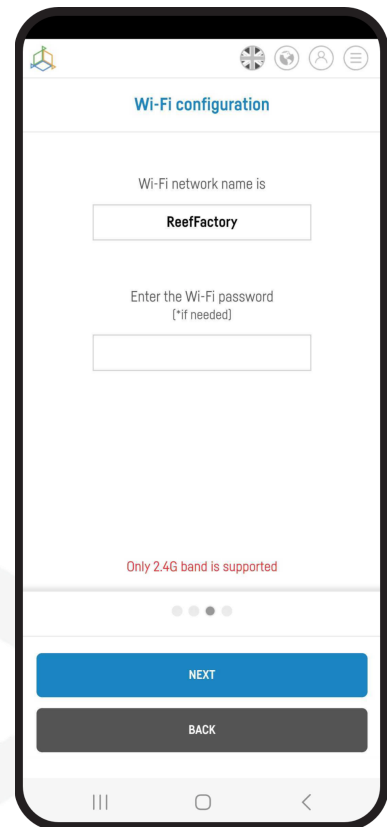
Select **"SCANNING"** to scan the QR code on the device, then allow the Smart Reef app to access the camera while using the app.

After pressing **"SCAN"**, hover your phone's camera over the QR code to scan it, or manually enter the device's serial number and select **"CONNECT"**.

> **i** You can find the serial number on the device, on the packaging and as the generated Wi-Fi network.

> **≡** The serial number starts with RF, an abbreviation of the device name, and a string of digits.

Allow the Smart Reef app, to temporarily connect
to set up a Wi-Fi network.
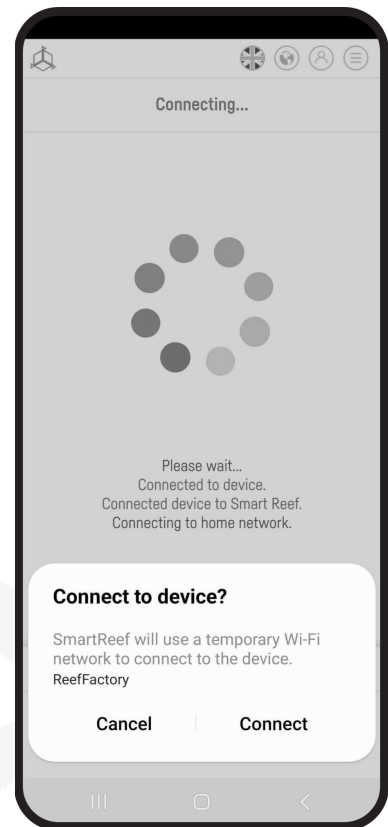
Congratulations! The device has been correctly added to your Smart Reef account and will appear in the list of devices within 60 seconds.

IV. Device operation configuration.

Configure device parameters.

Select from the list the length of a one-time filter change.

Select from the list the delay in the start of rewinding the non-woven fabric when the sensor detects a high water level.

Select from the list with what kind of notice you want to receive a notification about the end of the filter fabric.
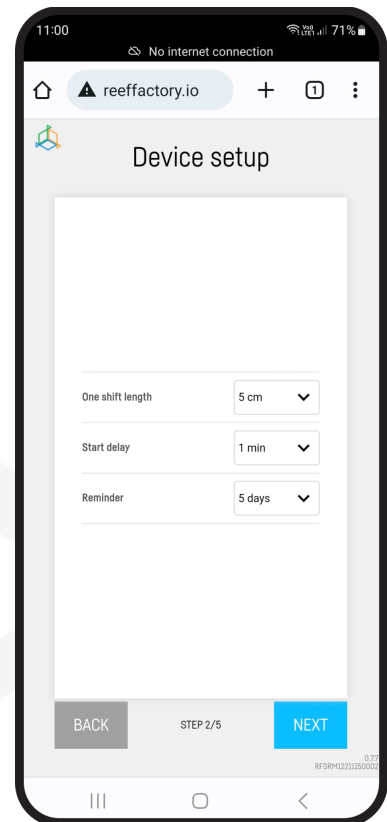
V. Configuration of a new filter fabric

In the Smart Reef application, go to the device menu and select the "SETTINGS" tab, then click the "Set a new roll" button.
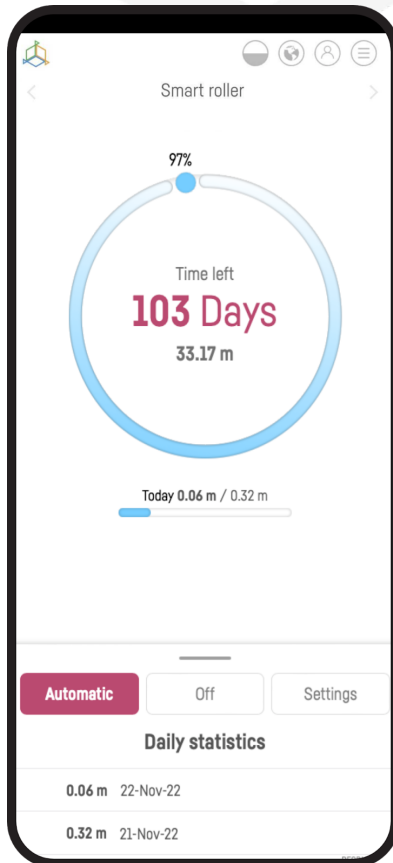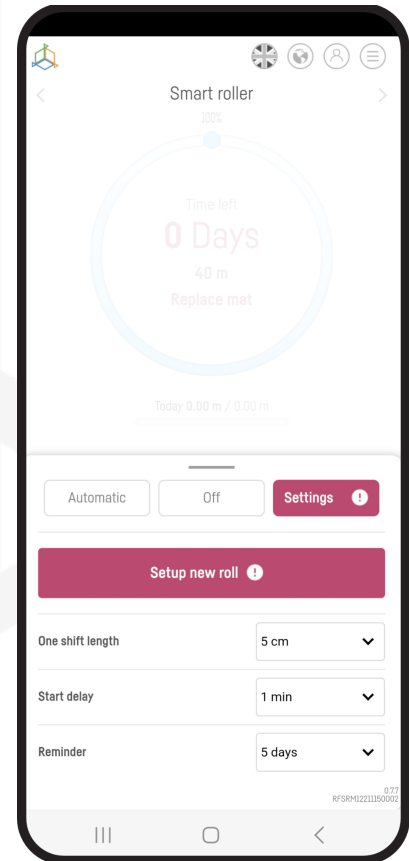
Select a new or used roll from the menu. If you are using a roll, you will need to specify the outside diameter of the roll to calculate the amount of fleece remaining. Then accept the choice.

The new roll has been configured.

VI. Replacing the used filter fabric
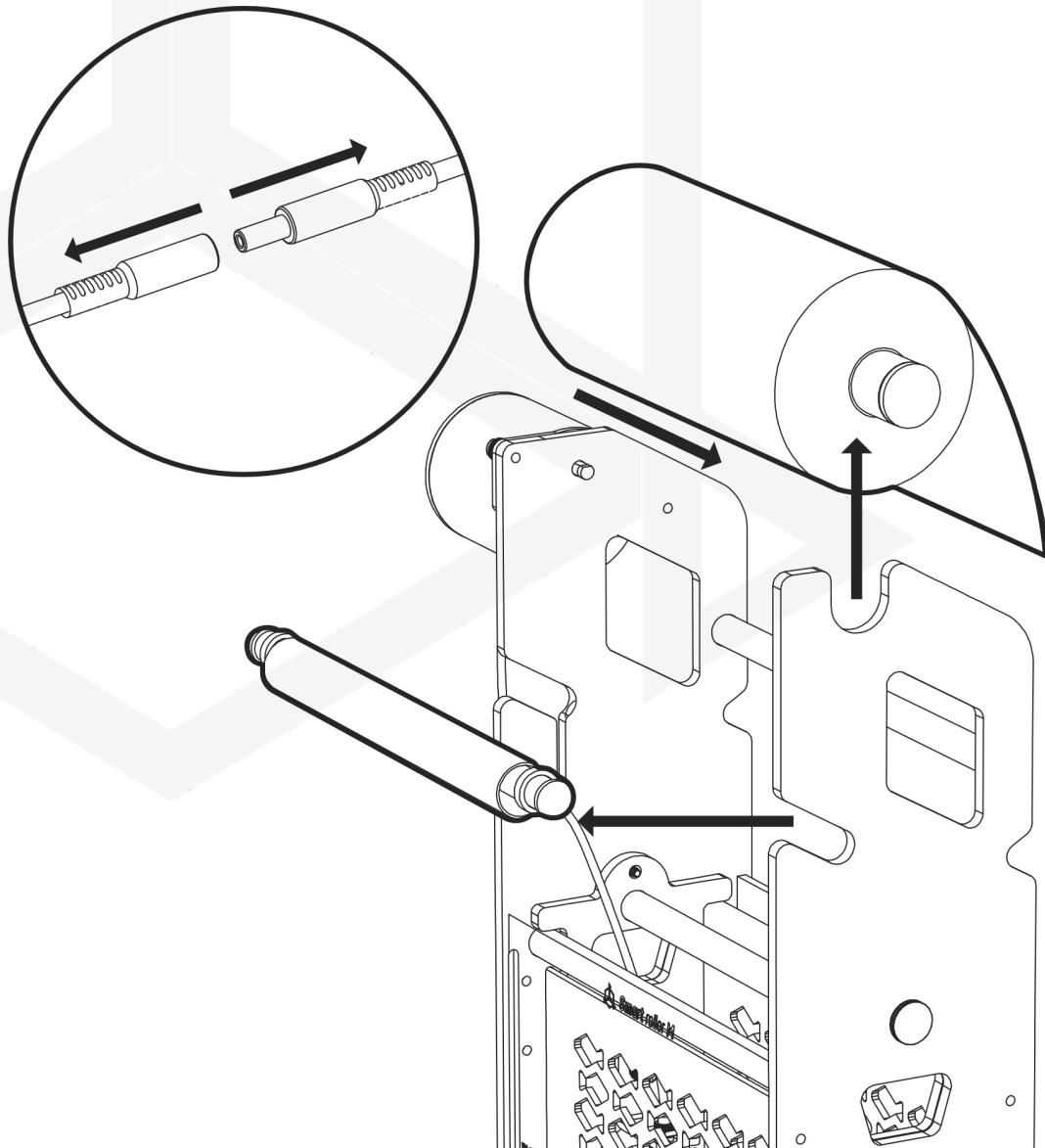
Disconnect the device from the power supply and close the water supply.

Remove the empty roll from the housing, then remove the used fleece roll from the motor.

Unscrew the screws securing the fabric tensioning basket and pull out the fluid level sensor basket.

Remove the used fleece from the rolls and dispose of it in a suitable waste container.
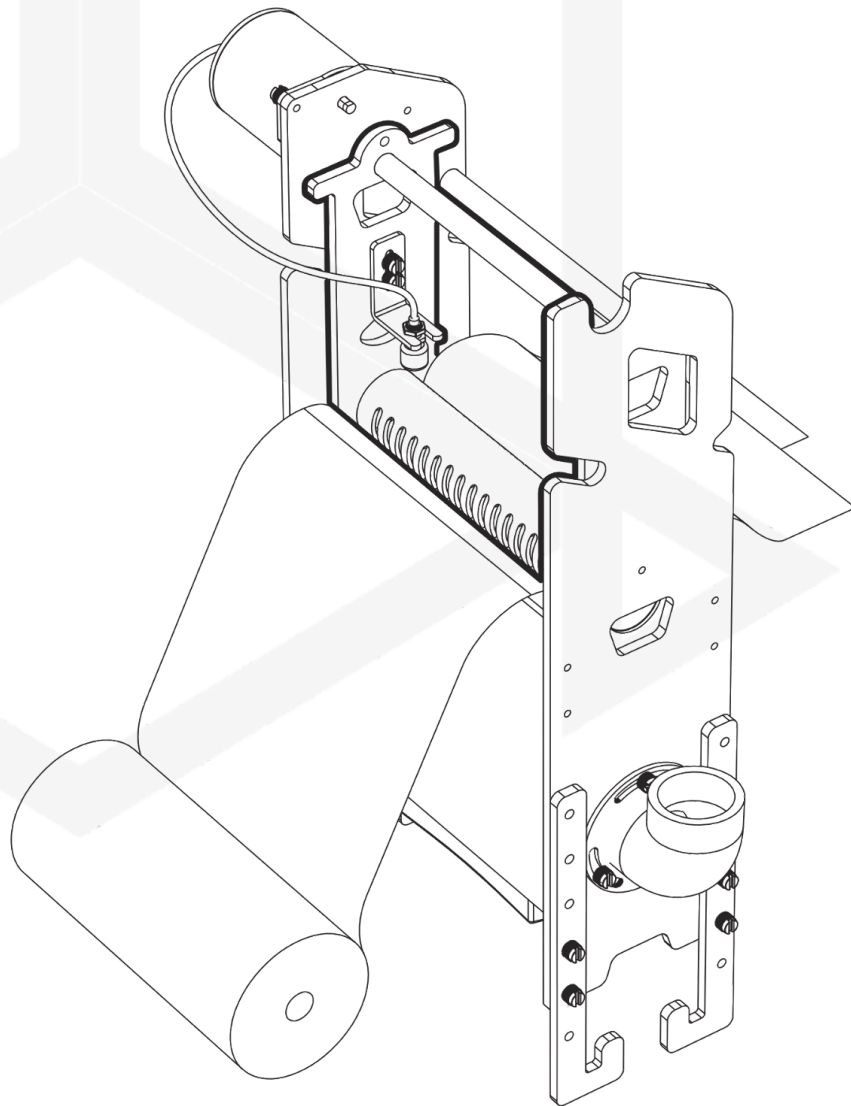
Unpack and pass the new fleece through the device, leaving a minimum of 30 cm on the right side.
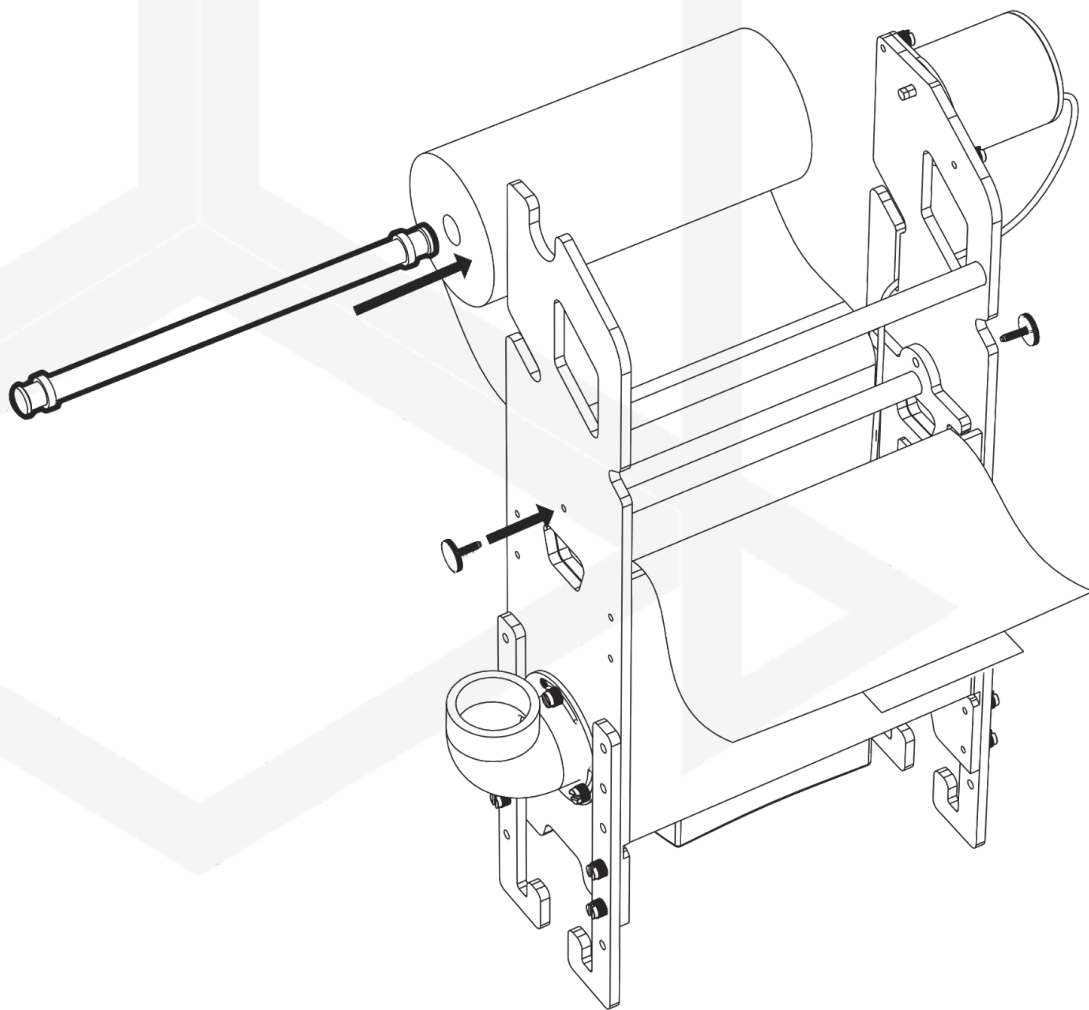
Place the fleece tensioning basket in the device and screw it with flat screws, then mount the new fleece together with the roller in the holder.

3X
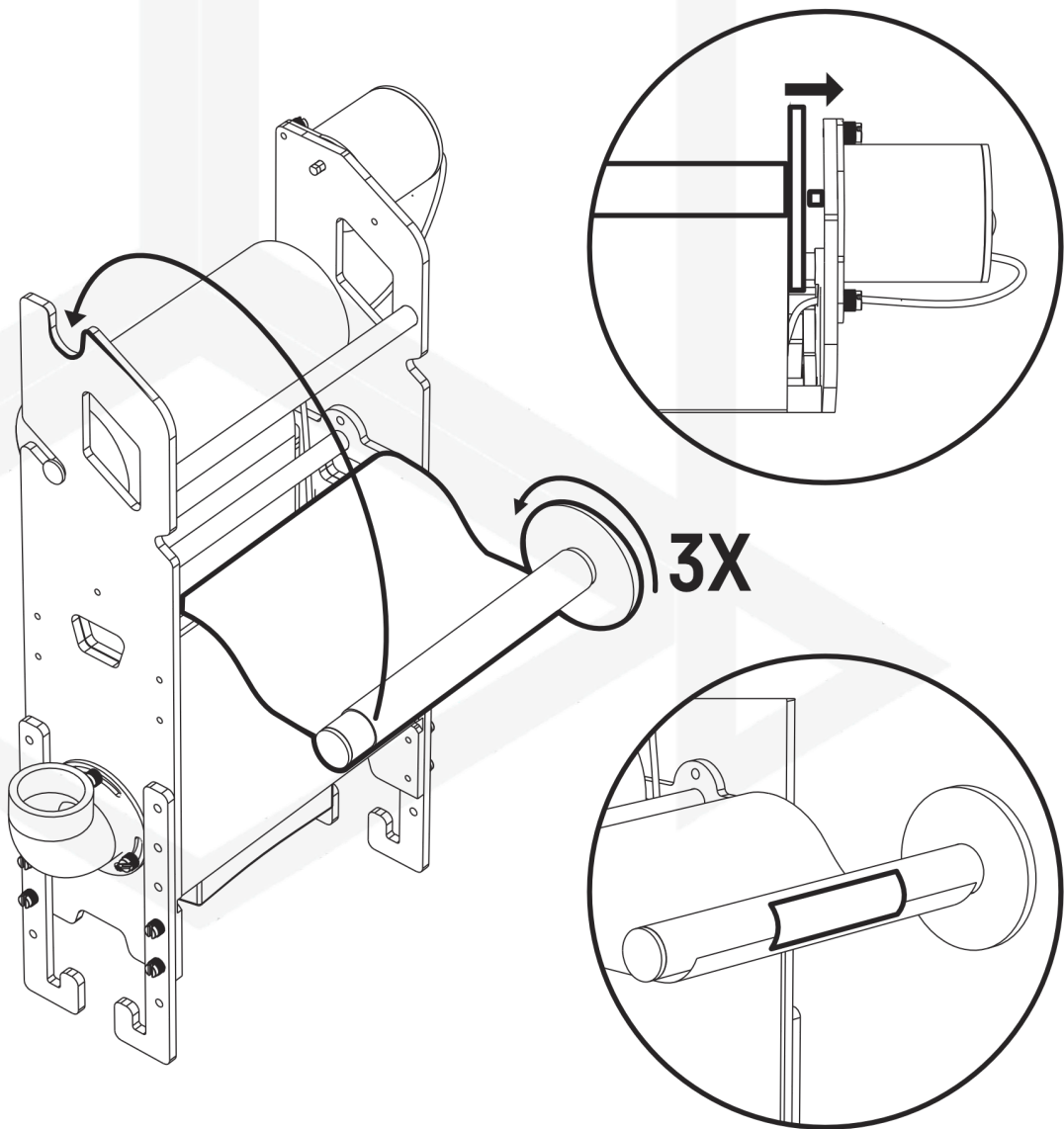
Using the label from the packaging, glue the fleece to the empty winding reel, wind it in 3 layers and mount it on the motor spindle.
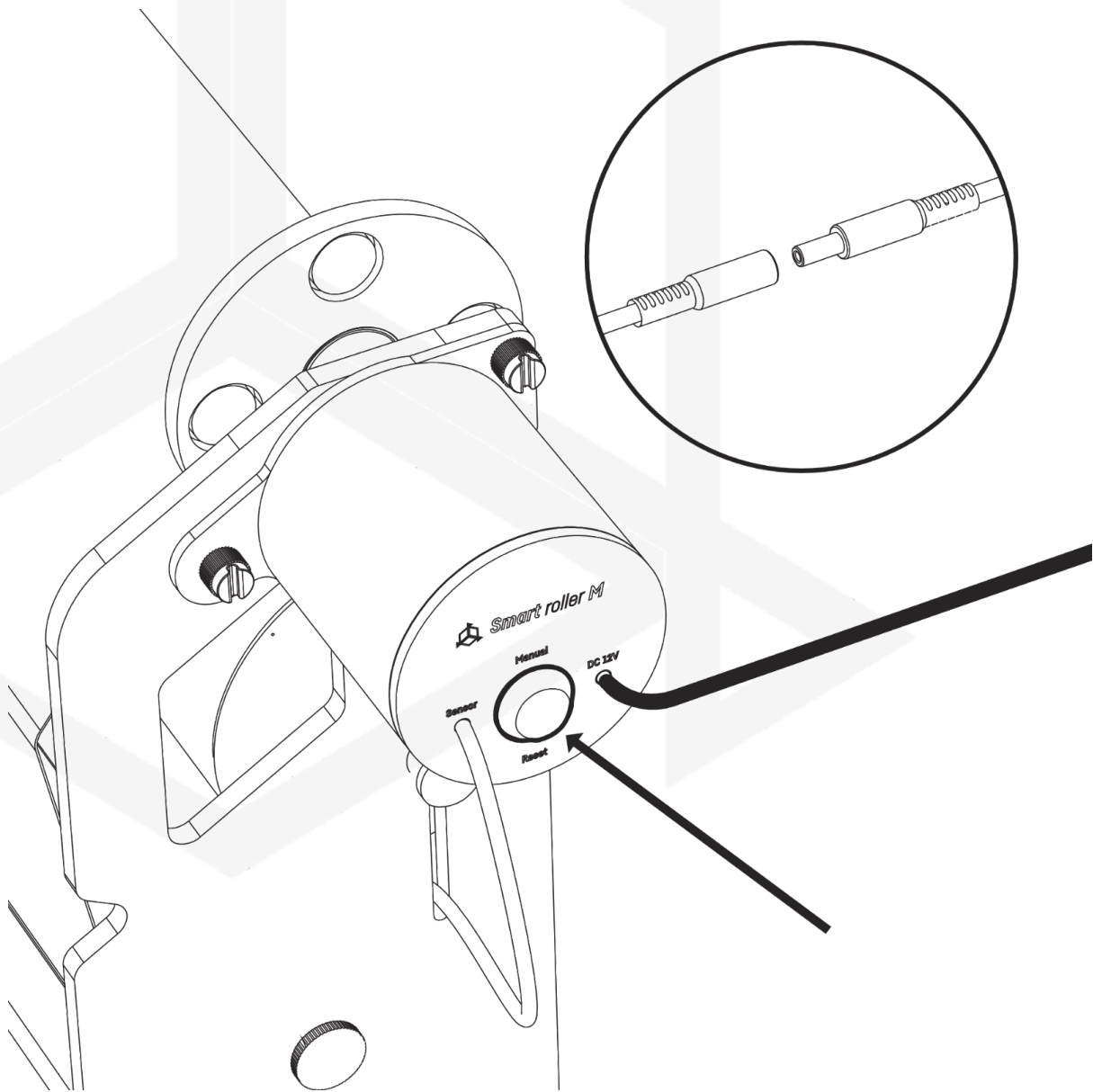
Connect the device to the power supply and mains power supply and tighten the fabric roll while holding down the "Manual" button, then connect the water supply.

In the Smart Reef app, go to the device menu and select the "SETTINGS" tab, then click the "Set up new reel" button.

Select a new or used roll from the menu. If you are using a roll, you will need to enter the diameter of the roll to calculate the amount of fleece remaining. Then accept the choice.
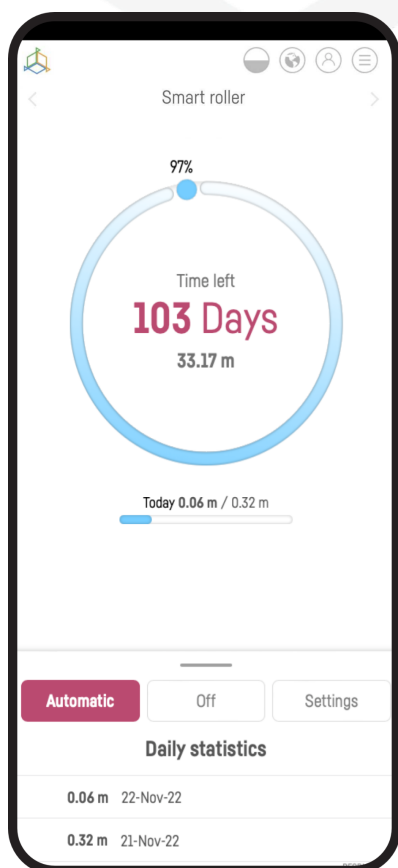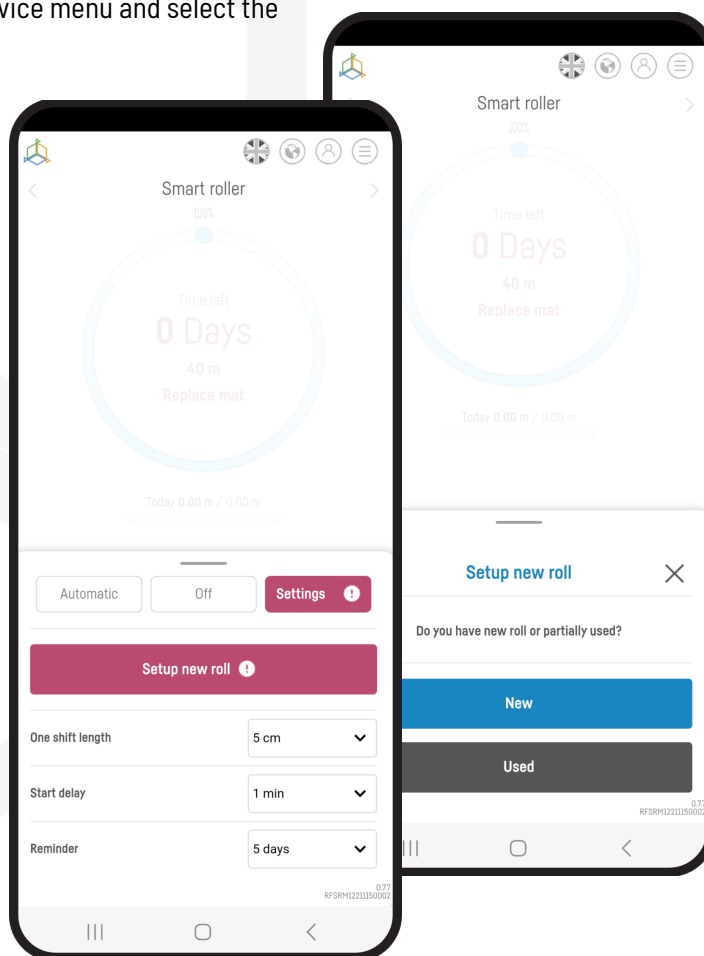
From now on, in the device menu you will find information about the amount of non-woven fabric left on the roll, the expected time for which it will be enough and statistics from the current and previous days.

VII. Resetting the device to factory settings

If your device does not work properly, you want to configure it again or you cannot connect to it after several attempts, you can restore it to factory settings by applying a magnet (included in the set) to the device's housing in the place marked RESET.
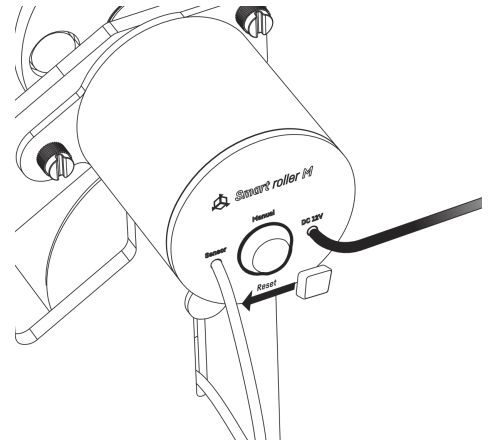
After resetting the device to factory settings, you need to reconfigure it.

VIII. Changing the device access password

For security reasons, it is recommended to change the standard device access password. The password should be sufficiently complex to prevent third parties from connecting to the device. Changing the password requires a direct connection to the device's WiFi network as in step 4 of Initial Device Setup.

Once you are connected to the device, expand the list by clicking on the 3 bars in the upper right corner of the screen, then go to the WiFi network settings.
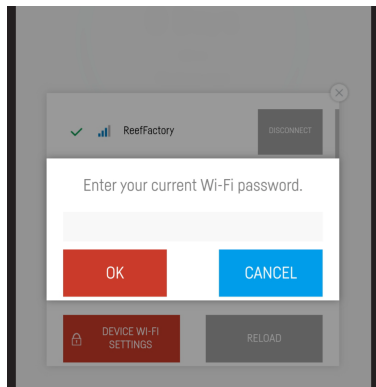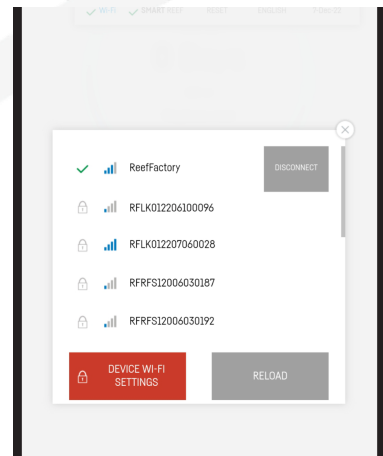
Enter your current password (default is **reeffactory**) then press "OK".

In the next step, enter a new password and press "OK", then confirm the new password and press "OK".

Congratulations! The password has successfully changed

IX. Device update

To update, log in to the Smartwww.reeffactory.com in the mobile application or at [Reef](#).

Then press the "Edit" button next to which there is a red indicator informing about the available update.

In the next one you will see a message about the availability of a new version of the software. Press "OK" to update the software.

Note that after some updates, your device may need to be reconfigured or recalibrated.
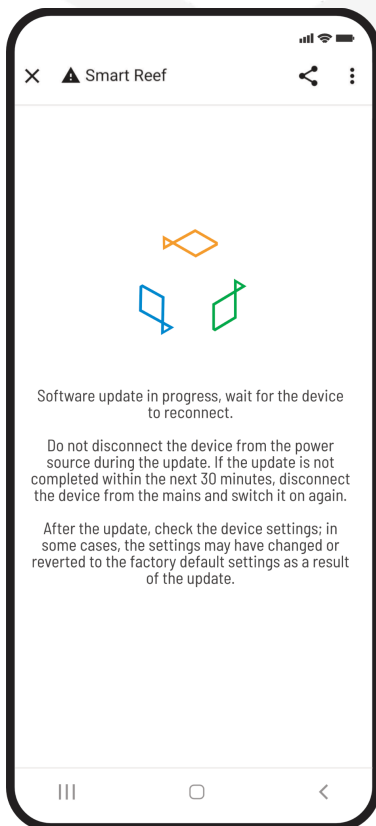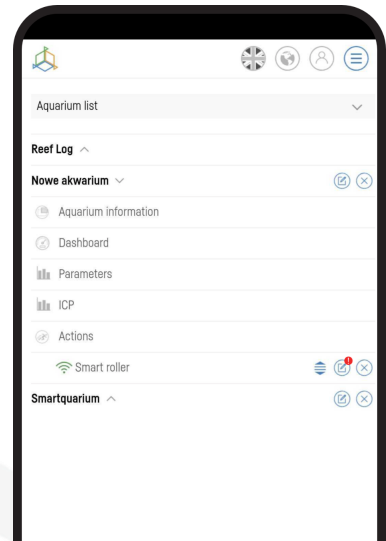
After pressing the "OK" button, the device will automatically update.

Do not disconnect the device from the power supply during the update. If the update doesn't complete within 30 minutes, reset your device.

After the update, check the device settings, in some cases, as a result of the update, I may change or return to the factory settings.

X. Information and warnings

IMPORTANT INFORMATION! The Thermo control is not completely watertight. Avoid immersion, splashing and high humidity. Exposure to these factors may cause permanent damage to the device.

IMPORTANT INFORMATION! The device operates under mains voltage - there is a risk of electric shock.

IMPORTANT INFORMATION! PACKAGING
The device was protected during transport by packaging. After unpacking the device, please dispose of the packaging in an environmentally friendly manner. All materials used for packaging are harmless to the environment and 100% recyclable. Packing materials (polyethylene bags, foams, bundle wires, etc.) should be kept away from children during unpacking. There is a risk of swallowing, aspiration and suffocation.

IMPORTANT INFORMATION! WITHDRAWAL FROM OPERATION
The device is marked in accordance with the European Directive 2012/19/EU and the Polish Act on waste electrical and electronic equipment with the symbol of a crossed-out waste container. Such marking informs that after the period of its use, this equipment cannot be placed together with other household waste. The user is obliged to hand it over to the waste electrical and electronic equipment collection centers. The collectors, including local collection points, shops and communal units, create an appropriate system enabling the disposal of this equipment. Proper handling of waste electrical and electronic equipment contributes to avoiding consequences harmful to human health and the natural environment, resulting from the presence of hazardous components and improper storage and processing of such equipment.

1. The manufacturer of the devices described in this manual is:

Reef Factory Sp. z o

. ul. Bydgoska 94

86-032 Niemcz

Poland

Manufacturer's website: www.reeffactory.com

2. The manufacturer declares that the offered products comply with the following standards:

RoHS 2011/65/EU,

RoHS 2015/863,

RED 2014/53/EU.

3. Reef Factory hereby declares that the devices are in compliance with Directive 2014/53/EU.

The full text of the EU declaration of conformity is available at the following internet address:
https://download.reeffactory.com/instructions/thermocontrol/ThermoControlCE.pdf

4. Devices manufactured by Reef Factory are intended only for home use or stores operating in the aquarium industry , they are not dedicated to industrial applications.

5. The devices are adapted to dispensing liquids that are not hazardous substances, such as corrosive substances, highly concentrated acids or flammable substances. In case of doubt whether a given substance can be dosed using our devices, please contact us.

6. FCC Compliance Statement:

This device complies with part 15 of the FCC rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received including interference that may cause undesired operation. Any changes or modifications not expressly approved by Reef Factory could void the user's authority to operate the RF Module and/or the product that incorporates the RF Module. The user is cautioned to maintain a 20 cm (8 inch) spacing from the product to ensure compliance with FCC regulations.

This device contains RF Module:
Part Number: ESP12F
FCC ID: 2AHMR-ESP12F

XI. Warranty terms

Reef Factory Sp. z o. o. does not warrant uninterrupted or error-free operation of this product. The warranty covers only technical hardware problems that occurred within the warranty period

and under normal conditions of use.

1. Devices manufactured by Reef Factory are covered by a warranty for the period of:

24 months for individual and business customers using consumer products.

12 months for a business customer using demo products.

2. Accessories and spare parts for devices are covered by a 6-month warranty.

3. The proof of the warranty for the product is the bill or invoice of purchase, on which the date of purchase and the name of the device are legibly marked.

4. Technical defects of the product revealed during the warranty period will be removed free of charge as soon as possible, not exceeding 14 days from the date of delivery of the device to the Authorized Service Point.

5. The User has the right to have the product replaced by the Guarantor with a new one, free from defects,

in the event that:

Five repairs requiring replacement of components were made during the warranty period,

and the product still shows defects, the

Authorized Service Center stated in writing that the defect is impossible to removal.

6. The condition for the warranty repair is:

Delivery of the product in the original factory packaging or other packaging protecting the device during transport to the Authorized Service Point.

Presentation of proof of purchase,

Description of the fault that occurs in the device.

7. The warranty does not cover:

Normal wear of materials and consumables (e.g. consumables such as probes, sensors, pump heads, hoses, etc.),

Mechanical damage and defects caused by it,

Damage due to improper use, inconsistent with the manual or storage of the product,

Damages caused by arbitrary repairs and alterations made by the Buyer or unauthorized persons,

Damages resulting from natural wear and tear, such as: scratches, dirt, abrasions, erasure of inscriptions, etc.

8. Employees of the Authorized Service Center are authorized to assess the causes of defects product.

9. The repair period may be extended in the event of disruptions caused by force majeure circumstances such as natural disasters, social unrest, etc.

10. The warranty rights do not include the buyer's right to claim lost profits or losses incurred due to product defects.

11. The warranty period is extended by the time the device is in an authorized service center.

12. In matters not covered by the terms of this guarantee, the relevant provisions of the Civil Code shall apply.

13. The warranty does not exclude, limit or suspend the buyer's rights under

the provisions on warranty for defects in the sold item.

14. A repaired or replaced product may contain new or refurbished components.

15. Please be advised that the repair or replacement of a product involves a significant risk of losing data stored in a given product (especially related to its configuration and history of measurements). Therefore, the Customer accepts that during the repair or replacement of the product, the data may be deleted.

16. The Guarantor is not responsible for the lack of full compliance (compatibility) of the product in operation

with accessories or devices from other manufacturers used by the Customer. In particular, this applies to network devices whose configuration may limit the ability to connect and exchange data between the device and the server.

17. The customer delivers the device for repair to the Authorized Service Center at his own expense, while the service, after performing the warranty repair, sends the device back to the customer at his own expense.

18. The Authorized Service Point may repair/reconstruct the device at the Customer's expense (post-warranty repair), however, the Customer must accept this cost before repairing it.

19. The Authorized Service Point may refuse to repair or replace a device that, after testing in service conditions, does not show any defects for the product

in terms of its use (confirmation of the device's full efficiency).

20. The Guarantor is not liable for incidental or consequential damages caused by breach of warranty or conditions or any other theory of law, including but not limited to loss of usability; loss of income; loss of actual and perceived profits (including loss of profits from contracts); loss of business; loss of opportunities; impairment of the company's value; loss of reputation.

21. The Guarantor is not liable for direct or indirect damages caused by a defect or failure of the device and for damages arising during the period of repairs or replacement of the device related to the inability to use the device.

XII. Technical information

Device name	Smart roller	
Device model	RFSRM01	
Operating temperature/humidity	10°C - 50°C / 0 - 99%	
Power consumption	0.5-5W	
Power supply / Power adapter	12V DC 1A / 100V-230VAC 50-60Hz (AC-DC adapter)	
Dimensions (mm)	375x121x479 mm	
Weight	3120 g	

The device is manufactured with different versions of power cords and power sockets, depending on the country in which it will be used.

Need our help?
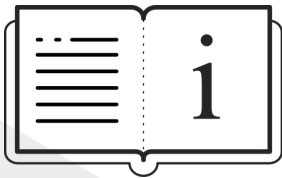
Check out our knowledge base!

[Help Center - Jira Service Management](#)

Have more questions?

Use the form in the link above

or write us an email - support@reeffactory.com