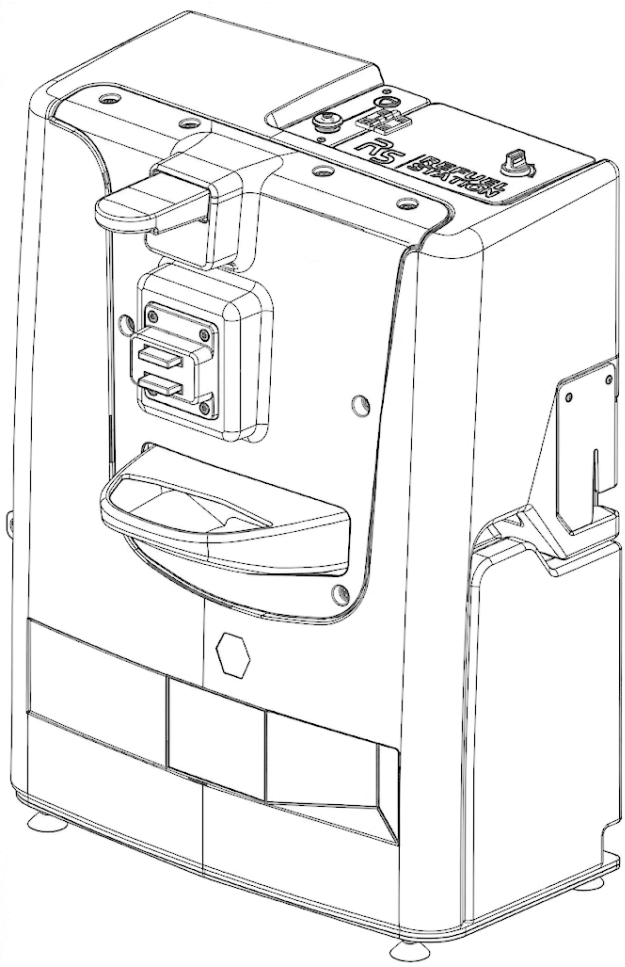
LIONSBOT

R5 Scrub
Refuel Station

User Manual



WARNING: The operation of this machine is strictly reserved to trained and qualified operators.

Original Instructions

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Machine Designation
Type: R5 Docking Station
(As marked on the machine nameplate)

Intended use
- Environment: This machine is intended for indoor commercial environments (for example in ordinary locations of hotels, schools, hospitals, factories, shops, offices, and rental businesses).
- Battery charging: The station is designed to charge the integrated lithium-ion battery of the R5 Scrub only.
- Water exchange: The station is designed to empty the recovery tank and fill the water tank of the R5 Scrub using auxiliary equipment (supply hoses, drain hoses, and fittings) as specified in the installation requirements.

Specifications and parts are subject to change without notice.
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About this manual

This manual contains safety information, usage instructions, and maintenance guidelines for the LionsBot R5 Scrub Refuel Station.

This manual does not contain:

- Instructions to create advanced maps.
- Instructions to replace components of the product.
- Advanced troubleshooting and maintenance guides.

For repair guides, component replacement instructions, and advanced maintenance guides, refer to the service manual or the online help in LionsCloud.

Keep this manual for future reference.

Symbols

This document uses the following symbols:

Symbol	Meaning
WARNING	Situations that can cause injury or death
CAUTION	Situations that can damage the product or other objects
	Caution: Read the instructions before using the machine.

Document conventions

This document uses the following conventions:

Convention	Meaning
Bold numbers in parentheses—for example, **(2)**	Labeled elements in the section *Components of the R5 Scrub Refuel Station* (page 7).
Bold	Labels in the robot and names of elements on the touchscreen
Important	Essential information about the product or the task.

Safety precautions and warnings

This manual covers common situations, but not every possible condition you might encounter. Be careful when you install, maintain, and use the R5 Scrub Refuel Station.

To keep the warranty valid, follow all instructions in this manual.

Safety

WARNING

- Operators shall be adequately instructed on the use of this machine before operating it.
- Only trained and qualified operators can use this machine.
- This machine is not intended for use by persons (including children) with reduced physical, sensory, or mental capabilities, or lack of experience and knowledge.
- Supervise children to ensure they do not play with the R5 Scrub Refuel Station.
- When using the R5 Scrub Refuel Station, ensure others, especially children, are not in danger.
- Do not let the power cord of the R5 Scrub Refuel Station come into contact with the rotating brushes, wheels or casters of the R5 Scrub.

CAUTION

- Read all relevant instructions before servicing the R5 Scrub Refuel Station.
- Do not throw any objects into the drain basin of the R5 Scrub Refuel Station.
- Do not use the drain basin of the R5 Scrub Refuel Station as a sink.

Modifications to the device

CAUTION

Do not modify the R5 Scrub Refuel Station in any way without written approval from LionsBot.

Modifying the R5 Scrub Refuel Station without written approval voids the warranty and makes you responsible for any resulting accidents.

Parts and service

CAUTION

Only LionsBot or authorized distributors can repair the R5 Scrub Refuel Station.

Contact LionsBot for repair parts or service. When you contact us, provide the robot's model and serial number.

Use conditions and limits

Usage environment

CAUTION

- The R5 Scrub Refuel Station is designed for use in indoor environments only.
- Use the R5 Scrub Refuel Station in dry environments only.
- Do not use the R5 Scrub Refuel Station in places where the temperature is above 40°C (104°F).

Material and substance guidelines

CAUTION

- Only use SuperSteam No Foam Degreaser (215) or other detergents explicitly approved by LionsBot.
- Add the detergent neat, into the designated tank in the R5 Scrub Refuel Station.
- Wear chemical-resistant gloves and eye protection when adding the detergent to the R5 Scrub Refuel Station.

Restrictions

WARNING

Do not use flammable or volatile substances in or near the R5 Scrub Refuel Station. Do not use the R5 Scrub Refuel Station on or near flammable liquids.

Transport, storage, and disposal

CAUTION

- Store the R5 Scrub Refuel Station indoors only.
- Use material handling equipment when lifting the R5 Scrub Refuel Station.
- Use a team of two people to move the R5 Scrub Refuel Station safely and prevent equipment damage.
- Before transporting the R5 Scrub Refuel Station on a vehicle, make sure:
  - The R5 Scrub Refuel Station is correctly packed and strapped down to the vehicle.
  - All tanks, tubes, and hoses are empty and dry.
  - The basin is empty and dry

Stability

WARNING

To prevent the R5 Scrub Refuel Station from tipping over during removal or if a stability component fails:

- If any adjustable foot or rubber stopper is damaged or missing, stop using the R5 Scrub Refuel Station immediately and contact LionsBot.
- Do not use improvised supports for the R5 Scrub Refuel Station.
- Before moving the station: drain all water, disconnect all hoses, disconnect the station from the power outlet, and use two people to lift the station.

Power and electrical safety

WARNING

- **General safety**
  - Use the R5 Scrub Refuel Station only to charge the R5 Scrub and its battery (model: P24067).
  - Connect the R5 Scrub Refuel Station only to a grounded power outlet. Do not use extension cords or damaged outlets.
  - Do not modify the charger to fit an outlet without the ground pin.

- Do not touch the charging contacts of the robot or the R5 Scrub Refuel Station.
- Keep the charger and docking station away from high temperatures, moisture, and humidity.
- Do not open the charger or docking station. Contact your authorized distributor for repairs.

- **Battery charging**
  - Charge batteries only in well-ventilated areas, away from open flames.
  - Do not smoke while charging batteries.
  - The temperature range to charge the battery is 5°C to 40°C (41°F to 104°F)
  - Do not use non-rechargeable batteries with the R5 Scrub.

Emergency procedures

- **Component failure during operation**: Press the pause button. Contact LionsBot support.
- **Battery fire during charging**: Use a CO2 or ABC dry chemical fire extinguisher to put out the fire.
- **Water leak**: Disconnect power and clean up spills
- **Leak from the detergent tank**: Avoid contact with the liquid. Wear chemical-resistant gloves and eye protection. Contain the spill immediately using absorbent materials. Follow the appropriate cleanup procedure based on the detergent used (for example, SuperSteam No Foam Degreaser). Refer to the detergent's Safety Data Sheet (SDS) for specific handling instructions.

Regulatory compliance information

Radio frequency

The following table describes the frequency bands and max TX power of the radio equipment included in the Refuel station:

Frequency range	Max transmit power
2400.0-2483.4 MHz	< 10 dBm

About the refuel station

The refuel station is an appliance that allows the robot to clean continuously without human intervention by:

- Automatic battery charging: The station automatically charges the robot's integrated battery once the robot returns and connects to the station.
- Automatic water exchange: The station automatically fills the clean water tank and empties the recovery tank
- Automatic detergent dispensal: The refuel station has a detergent bottle compartment. When refilling the R5 Scrub, the station automatically adds the necessary amount of detergent.

Important

The automatic features work only if:

- You pair the station with the robot.
- You add the station to a map using the touchscreen.
- The water supply is on.
- The detergent tank is full.

Components of the Refuel station

The following images show the location of the components of the Refuel station.

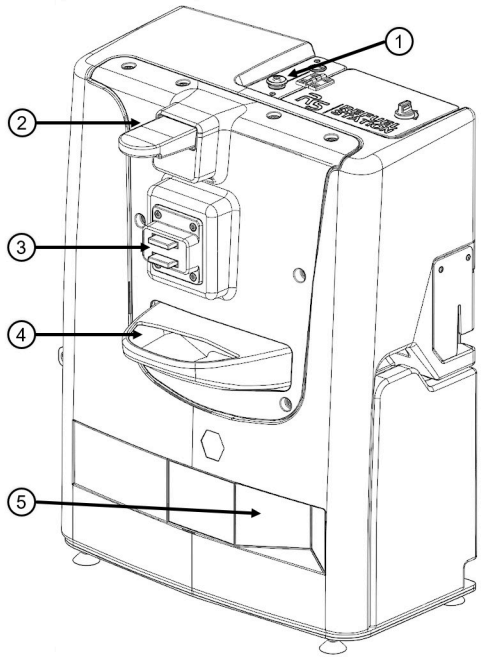


Figure 1

1. Pause button
2. Clean water outlet
3. Charging contacts
4. Docking sink
5. Reflective sticker

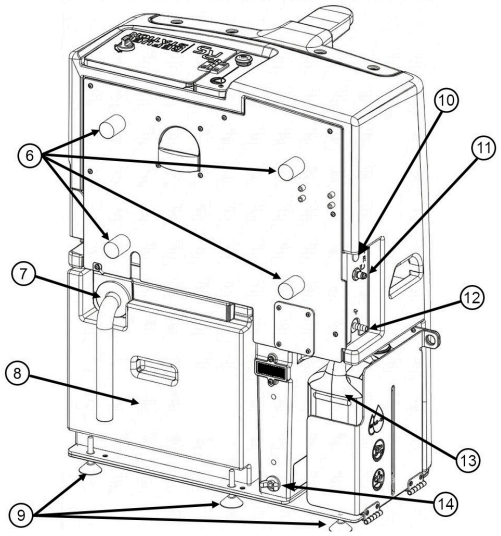


Figure 2

6. Rubber stoppers
7. Drain hose
8. Waste water tank
9. Adjustable feet
10. Electrical connection point for mobile water tank
11. Mobile water tank inlet
12. Tap water inlet
13. Detergent bottle compartment
14. 1/2 inch drain plug

15. Power cable
16. Manual charging cable
17. Power switch

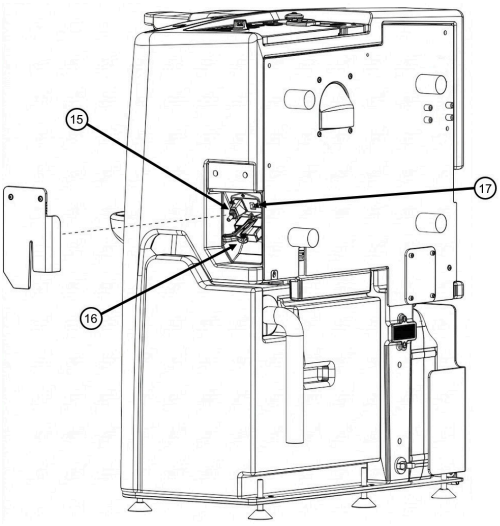


Figure 3

Safety features

Fuse protection

The refuel station is protected by fuses that automatically interrupt power if an overcurrent or overload is detected. This protects the internal components of the refuel station.

The refuel station has a replaceable glass fuse located on the power inlet, and additional fuses internally.

Pause button

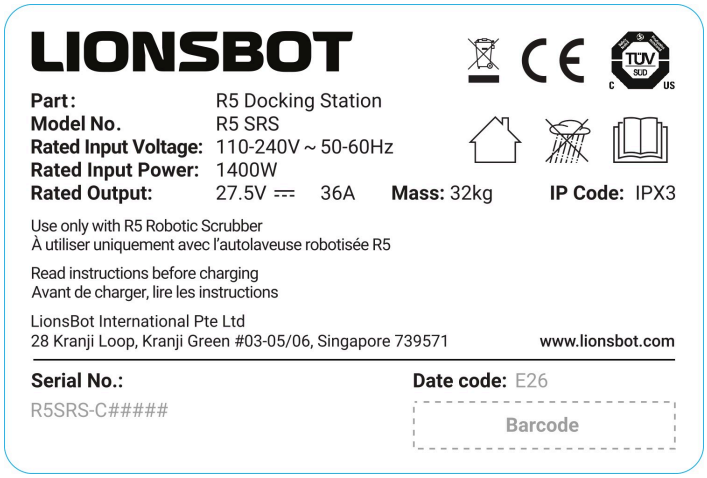
The pause button **(1)** is the red button on top of the refuel station. It pauses any operation the station is currently doing (such as filling the clean water tank of the R5 Scrub).

When you press the pause button, a red light on the button turns on. When you press the button again, the button light turns off and the station restarts operations.

Use this button to prevent injury or equipment damage.

Nameplate

The nameplate is on the rear right side of the Refuel station. The nameplate contains essential product information, including the serial number.



The following table describes the information on the nameplate:

Element	Description
Model	The name of the product.
Part No.	The product type.
Rated Input Voltage	The voltage the station requires from the electrical outlet
Rated Input Power	The maximum power consumption of the Refuel station.
Rated output	The voltage the Refuel station supplies to charge the robot's battery.
Mass	The weight of the Refuel station.
IP Code	The station's ingress protection rating.
Serial No.	The serial number of the product. The serial number follows this format: • First 5 characters: Part number. • Remaining characters: Factory ID and the unit's sequential number.
Date code	The month and year the product was manufactured. The date code follows this format: • First character: The month when the product was manufactured. *A* = January, *B* = February, and so on. • Last two characters: The year the product was manufactured.
	Don't discard this product with household trash. Take it to an authorized electronics recycling facility.
	Use the Refuel station indoors only.
	Use and store the product in dry conditions only. Don't expose to moisture.

Technical specifications

Electrical	
Rated input power	1400 W
Input	110-240 V ~ 50/60 Hz
Output	27.5 V ⎓ 36 A
Power cord length	3 m (9.8 ft)
Physical	
Length	62.4 cm (24.56 in)
Width	47.8 cm (18.81 in)
Height	81.0 cm (31.88 in)
Weight	32 kg (70.54 lb)
Clean water inlet	• Fitting standard: 1/2 in (12.7 mm) barbed fitting • Diameter: 1/2 in (12,7 mm)
Maximum inlet water pressure	0.6 MPa
Drain hose	• Fitting standard: 1 in (25 mm) • Outer diameter: 38 mm (1.49 in) • Inner diameter: 25 mm (0.98 in) • Length: 0.55 m or 3 m (1.8 ft or 9.8 ft)
Overflow outlet	• Length: 57 mm (2.24 in) • Height: 27 cm (10.62 in)

Ingress protection	IPX3
Operating altitude	Less than 2000 m (6561 ft)

Install the station

Installation requirements

The location where you install the refuel station also serves as the home point for the robot.

Select a location that meets these mandatory requirements:

- **Environment**: Away from walkways and areas where people frequently pass.
- **Floor surface**: Flat and level.
- **Power**: One grounded power outlet.
- **Water**: Access to a running water tap.
- **Drainage**: Access to a floor-level drain lower than the station's drain hose.
- **Clearance**:
  - Left: At least 0.5 m (20 in).
  - Right: At least 0.5 m (20 in).
  - Front: At least 1.8 m (5.9 ft) in front of the station.

Before you start

> **WARNING**
>
> - For the water connection, use a new hose set that follows the specifications described in this section. Don't reuse old hose sets.
> - For the drainage connection, use only the outlet hose supplied with the appliance.

Before you install the refuel station, get the following items:

- $\frac{1}{2}$ inch (12.7 mm) PVC hose.
- If the water tap is not $\frac{1}{2}$ inch (12.7 mm), get the necessary fittings or adapters.

Unpack and position the station

> **WARNING**
>
> Use two people to lift the station using the grip handles to prevent injury and damage.

1. Open the container and examine everything for damage.
2. If you find damage, call LionsBot customer service immediately.
3. Put the station against the wall, with the rubber stoppers touching the wall and the charging contacts facing the clearance area.

Connect utilities

1. Connect to the water supply.
   a. Connect the $\frac{1}{2}$ inch hose to the tap water inlet **(12)** and the water tap.
   b. Open the tap.
   c. Check for leaks and ensure the hose has no kinks.

2. Connect the drain hose to the drain.
3. Make sure the drain hose is straight and has no kinks.

Adjust and turn on

1. Move the robot in front of the station.
2. Adjust the station feet until the robot's charging contacts align with the station's charging contacts.
3. Connect the power cord to the station and to the grounded outlet.
4. If your outlet has a wall switch, turn it on.
5. Turn on the refuel station using the power switch.

What to do next

Add the refuel station to your map or create a new map. For more information, see the online help in LionsCloud.

Moving and storing the station

Moving the station

To relocate the station after installation:

1. Turn off the station and unplug the power cord from the outlet.
2. Close the water tap.
3. Disconnect the water supply hose.
4. Disconnect the drain hose from the floor drain.
5. Empty the clean water reservoir inside the station.
   a. Remove the 1/2 inch drain plug **(14)** by turning it clockwise. The water starts flowing immediately.
   b. Wait for the tank to drain completely.
   c. Put the 1/2 inch drain plug back in place.
6. Empty the waste water tank **(8)**.
   a. Pull the waste water tank out of the station.
   b. Remove the tank mesh.
   c. Open the lid and empty the tank.
   d. Close the lid.
   e. Put the tank mesh in place.
   f. Put the tank back in the station.
7. Move the station

Storing the station

If you won't use the station for an extended time, store the station in a dry, warm place:

1. Turn off the station and unplug the power cord from the outlet.
2. Close the water tap.
3. Disconnect the water supply hose.
4. Disconnect the drain hose from the floor drain.
5. Empty the clean water reservoir inside the station.
   a. Remove the 1/2 inch drain plug **(14)** by turning it clockwise. The water starts flowing immediately.
   b. Wait for the tank to drain completely.
   c. Put the 1/2 inch drain plug back in place.
6. Empty the waste water tank **(8)**.
   a. Pull the waste water tank out of the station.
   b. Remove the tank mesh.

c. Open the lid and empty the tank.
d. Close the lid.
e. Put the tank mesh in place.
f. Put the tank back in the station.

7. Move the station to the storage room.

Maintenance

WARNING

- Turn off the refuel station and disconnect it from the power outlet before doing any cleaning or maintenance.
- Do not use water or wet wipes to clean the refuel station exterior.
- The docking sink and drain hose may contain residues from previously used floor chemicals and the cleaning agent used with the refuel station. When doing maintenance to the refuel station:
  - Wear chemical-resistant gloves and eye protection. Refer to the Safety Data Sheet (SDS) of the cleaning agent for specific handling instructions.
  - Use the appropriate personal protective equipment based on the substances that may have been used on the floor.

Interval	Task	Procedure summary
Daily	Rinse docking sink	Remove foam mesh. Remove debris from docking sink. Flush basin and drain hose with water.
Week-ly	Clean refuel station	Wipe exterior surfaces with a dry cloth.
	Inspect hoses for damage or leaks	Check hoses for damage, wear, or leaks. Replace if necessary.
	Tighten hose clips	Tighten clips to ensure secure connections.
	Clean sponge	Take out the sponge. Rinse it with water. Remove any debris stuck to the sponge.
	Clean waste water tank	Remove the tank. Drain the tank. Rinse and drain the tank.
Month-ly	Clean waste water pump	Open the waste water tank. Disconnect and take out the pump. Remove any any visible residue from the pump. Rinse the base of the pump.

Troubleshooting

Problem	Solution
The station has no power	Ensure cord is firmly connected to the outlet and station; turn on the power switch.
The robot can’t pair with the station	Retry the pairing process or rotate the robot away from the station.

Robot stuck at station	Turn off the station, unlock the wheels using the touchscreen, manually move the robot.
Robot not charging	Make sure the manual charging cable **(16)** is connected correctly.

Appendix A: Frequently asked questions

Can I install the station with less clearance than specified?

No. All installation requirements are mandatory. Follow the requirements exactly as specified.

Can I use the refuel station in freezing temperatures?

No. Water left in the hoses can freeze, causing them to crack or burst.

Appendix B: Meaning of the LED lights of the station

State	LED Color	LED Pattern	Pause Button
Idle (turned on)	Blue	Slow pulse	—
Charging robot	Green	Static	Off
Paused	Red	Constant	On
Communicating with the robot	Green	Slow pulse	—
Error	Red and orange	Blinks (number of blinks indicates error type).	—
OTA	White	Blinking	—

For more information about the meaning of the patterns of the error LED, see the online help in LionsCloud.



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