

# Maintenance Guide

## Scrubber 75

Technical support & operation center

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# Maintenance Guide - Clean appearance

Scrubber 75



## [Drive robot to maintenance area]

Drive robot to maintenance area, turn robot facing out and power it off. Please refer to “Operation Guide - driving operation” to drive robot.

1



## [Wipe anti-collision bar]

Clean anti-collision bar with a wet wipe.用拧干的湿  
Notice: do not make the wet wipe touch camera, 3D laser.

2



## [Wipe covers of robot]

Use a wet wipe to clean front cover, left & right side covers, foot stepper.  
Notice: do not make the wet wipe touch camera, 3D laser and tablet.

3

# Maintenance Guide - Clean appearance

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## [Wipe sensors]

Use clean, soft, lint-free wipe to clean cameras, 3D laser, front tile camera, front flat camera, tilt laser.

4



## [Wipe screen]

Press screen on/off button to get screen off. Then use clean, soft, lint-free wipe to clean the screen.

5



## [Set "go home" task]

Select "back to charging dock" in screen.

6

# Maintenance Guide - Clean water tank

Scrubber 75

Empty water tank



## [Drive robot to maintenance area]

Drive robot to maintenance area, turn robot facing out and power it off. Please refer to "Operation Guide - driving operation" to drive robot.

1



## [Open rear cover]

Rotate coded lock and open rear cover. Take support rod and put it aside.

2



## [Empty water tank]

Take wastewater pipe out, open the cap and drain. Take clean water pipe out, open the cap and drain.

3

# Maintenance Guide - Clean water tank

Scrubber 75

Disassemble  
parts



[Open water tank cover]

1



[take filter bag out]

2



[Disassemble filter bottles]

Use the wrench provided with robot to remove the filter bottles.

3

# Maintenance Guide - Clean water tank

Scrubber 75

Flushing water tank



## [Prepare water gun]

Take water gun out and open the water valve.

1



## [Flush inside of water tank]

Use water gun to flush steel wire filter, float sensor, inner walls of water tank.

When flushing float sensors, toggle them for a better cleaning.

2



## [Lift water tank up to drain]

Lift water tank up and install the support rod. Then drain wastewater.

3

# Maintenance Guide - Clean water tank

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Flushing water tank



## [Withdraw water tank]

Remove support rod after drainage, and withdraw water tank.

4



## [Withdraw support rod]

Put the support rod back to rear cabinet.

5



## [Withdraw pipes]

Tightly close the cap of wastewater pipe and put it back to rear cabinet.  
Tightly close the cap of clean water pipe and put it back to rear cabinet.  
Then close the cover of rear cabinet.

6



# Maintenance Guide - Clean water tank

Scrubber 75

Flushing components



## [Clean filter bag]

Dump the trash inside filter bag and flush inside and outside of it with water gun.

1



## [Clean filter bottles]

Use water gun to flush filter bottles and cartridges.

2



## [Parts recovery]

After cleaning, install filter bags, filter bottles and filter cartridges back and close water tank cover.

3

# Maintenance Guide - Clean water tank

Scrubber 75

Withdraw water gun



## [Turn off water valve]

Turn off water valve of water gun in workstation

1



## [Empty water inside tube]

2



## [Withdraw water gun]

Withdraw water gun and close the cabinet.

3

# Maintenance Guide - Clean squeegee

Scrubber 75



## [Drive robot to maintenance area]

Drive robot to maintenance area, turn robot facing out and power it off. Please refer to "Operation Guide - driving operation" to drive robot.

1

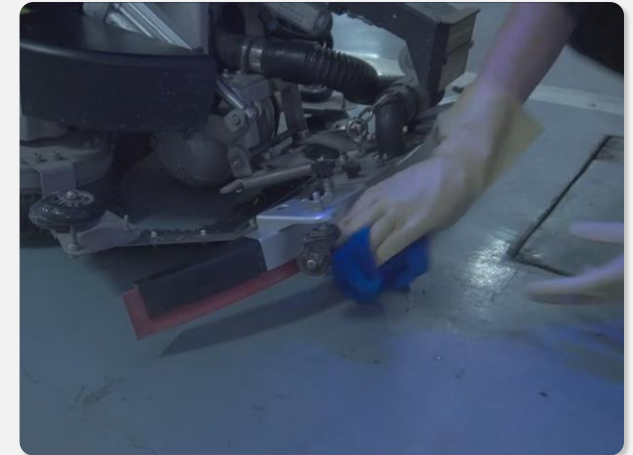


## [Rotate steering wheel to place squeegee facing outside]

## [Clean squeegee]

Use wet wipe to clean the appearance of squeegee and rubber strip. After completion, rotate steering wheel again to make anti-collision bar facing out.

2



3

# Maintenance Guide - Clean bristles

Scrubber 75



## [Drive robot to maintenance area]

Drive robot to maintenance area, turn robot facing out and power it off. Please refer to "Operation Guide - driving operation" to drive robot.

1



## [Rotate steering wheel to place squeegee facing outside]

## [Clean bristles]

Clean debris and dirties on bristles of left and right sides.  
After completion, rotate steering wheel and make anti-collision bar facing out.

2



3

# Maintenance Guide - Clean workstation

Scrubber 75



## [Drive robot to maintenance area]

Drive robot to maintenance area, turn robot facing out and power it off. Please refer to "Operation Guide - driving operation" to drive robot.

1



## [Prepare water gun]

Take water gun out and open the water valve.

2



## [Flush sink and rubber foam]

Take the rubber foam in sink off, and flush it with water gun.

3

# Maintenance Guide - Clean workstation

Scrubber 75



## [Turn valve off]

Turn the water valve in workstation off.

4



## [Empty water in pipe and withdraw water gun]

Empty water left in pipe and withdraw water gun into cabinet.

5



## [Wipde appearance of workstation]

Use wet wipe to clean appearance of workstation.  
Do not touch the charging port.

6

# Maintenance Guide - Filter bag replacement

Scrubber 75



[Open water tank cover]

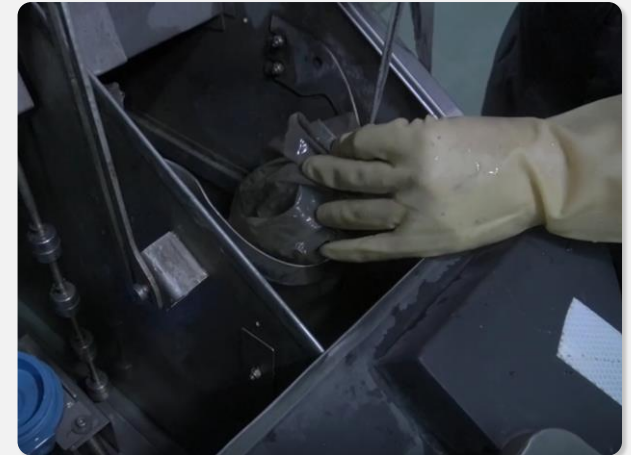
1



[take the old filter bag out]

Release rope of filter bag, squeezing water left and put it aside.

2



[Install new filter bag]

Prepare new filter bag, align it to wastewater outlet and tighten the rope. Then close the tank cover.

3

# Maintenance Guide - Filter cartridge replacement

Scrubber 75



## [Empty water in clean water tank]

Drive robot to maintenance area, open rear cover, take clean water pipe out and empty the left clean water. Then withdraw the pipe and close rear cover.

1



## [Open water tank cover]

## [Take filter bottles and cartridges off]

Use wrench to loose the filter bottles anticlockwise, and remove the bottles and cartridges.

2



3



# Maintenance Guide - Filter cartridge replacement

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## [Replace filter cartridge]

Flushing the filter bottles, and then prepare filter cartridges. The one nearby wastewater tank is 30 micron, the other one is 50 micron.

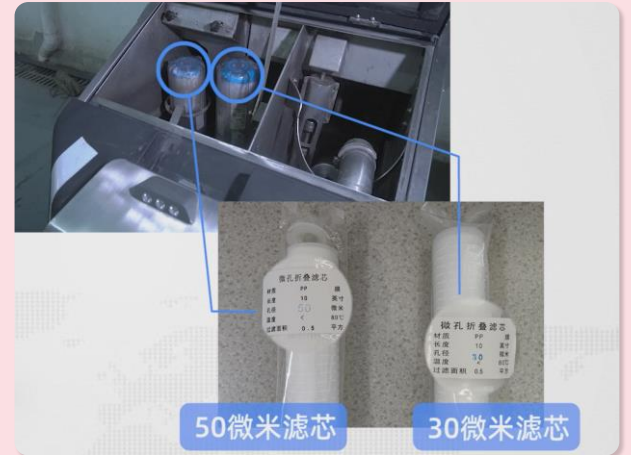
4



## [Install filter bottles and cartridges]

Use wrench to tighten filter bottles. Place the wrench on the bottle and close the tank cover.

5



## [Notice the type of cartridge]

The two filter bottles in clean water tank are the same. But the cartridge inside are different from each other. The one nearby wastewater tank is 30 micron, the other one is 50 micron.

Note

# Maintenance Guide - Steel wire filter replacement

Scrubber 75



## [Empty water tank]

Drive robot to maintenance area and empty water tank.

1



## [Remove components inside water tank]

Open water tank cover, remove filter bag in wastewater tank and filter bottle and cartridge in clean water tank to make enough space for removing steel wire filter.

2



## [Remove steel wire filter]

Rotate steel wire filter anticlockwise and remove them from wastewater tank and clean water tank.

3

# Maintenance Guide - Steel wire filter replacement

Scrubber 75



## [Replace steel wire filter]

Prepare new steel wire filter, align it and tighten it clockwise.

4



## [Install other components ]

Install filter bags, filter bottles & cartridges back. Then close water tank cover.

5

## [Periodic check & replacement]

Steel wire filter could be clogged and aging after long-term usage. Please check and replace it periodically based on specific working frequency and intensity to ensure a good filter performance.

Note

# Maintenance Guide - Rubber strips replacement

Scrubber 75



## [Drive robot to maintenance area]

Drive robot to maintenance area, turn robot facing out and power it off. Please refer to "Operation Guide - driving operation" to drive robot.

1



## [Rotate steering wheel to place squeegee facing outside]

## [Remove rubber strips]

Press the black button on squeegee and take the 2 rubber strips out.

2



3

# Maintenance Guide - Rubber strips replacement

Scrubber 75



## [Install inner strip]

Prepare new strips. Press the black button on squeegee, and insert the inner strip (with gaps) into squeegee.

4



## [Install outer strip]

Prepare new strips. Press the black button on squeegee, and insert the inner strip (no gaps) into squeegee. After install, pull the strips from both 2 sides to ensure they were well installed. Then, rotate steering wheel and have anti-collision bar facing out.

5

## [Distinguish the 2 rubber strips]

The 2 rubber strips are different from each other. There are gaps on inner strip, there is no gaps on outer one.

Note

# Appendix - Daily Maintenance Checklist

**Scrubber 75**

## Daily Maintenance Checklist - Scrubber 75

Weekly Maintenance Chart: \_\_\_/\_\_\_/\_\_\_ to \_\_\_/\_\_\_/\_\_\_ SN: \_\_\_\_\_

Check Items	Details	Mon	Tue	Wed	Thu	Fri	Sat	Sun
Filters x3	Clean immediately after task completed							
	Different filter model, correctly installed in the corresponding position							
	No damage, good water permeability							
Water tank	Clean immediately after task completed							
	No residual water stains on the outside of the water tank							
	Water tank cover is well sealed							
Mesh Filters x2	Clean every week							
	No damage, rust, deformation							
Filter bag x1	Clean immediately after task completed							
	No damage, good water permeability							
Brushes/pads x3	Clean the bottom and surrounding garbage							
	No damage or deformation							
Squeegee blade x2	Clean with rag immediately after task completed							
	No damage or abnormal wear							
	Good connection to the ground, no abnormal noise							
Squeegee caster x4	Clean with rag immediately after task completed							
	Smooth movement, no abnormal noise, no abnormal wear							
Robot cleaning	No water stains and no dirty on the robot body							
	Sensor has no residual water stains and no dirty							
	No obvious dirty on the chassis, skirts, filters, etc							
Roller brush x2	No abnormal wear, no deformation							
	No obvious dirty, no abnormal noise							
	Clean the dust box every day							

Note: The above items shall be inspected after daily cleaning. If any abnormality is found, please deal with it or replace it in time. If in doubt, please contact the supplier's service engineer.

# Questions?

[www.smartservant.nl/helpdesk](http://www.smartservant.nl/helpdesk)