

Electric floor  
cleaning  
machine  
**CLEAN-L**



Please read these instructions carefully before using the product.

## Foreword

- Each floor cleaning machine model comes with an instruction manual that contains the necessary

operating and maintenance instructions.

- Please observe the following points during daily operation.

- Before operating or using this machine, please read this manual carefully and familiarize yourself with the machine.

- Maintain the machine regularly in accordance with the maintenance instructions in the operating manual.

- Please have repairs carried out by the original manufacturer or with parts of the same quality.

- Do not use flammable liquids; do not operate machines near or in conjunction with flammable liquids, gases, or combustible dust.

- The battery releases hydrogen gas. Keep away from sparks or open ignition sources. The battery compartment must remain open during charging.

## Environmental protection

- Dispose of packaging materials, old machine components such as batteries

and toxic liquids such as antifreeze and oil in accordance with local waste disposal laws and regulations, ensuring environmental safety.

- Please ensure proper recycling.

## Use

- The CLEAN-L is an industrial, commercial machine that can scrub rough and smooth hard surfaces such as concrete, ceramic tiles, stone, and synthetic materials. It can be used in schools, hospitals, office buildings, and other locations. The machine must not be used on soil, grass, artificial turf, or carpeted floors. The machine may only be used indoors, not on highways. Do not perform any work other than that described in this manual.

## Warning!

- Read the instructions carefully and familiarize yourself with them before use.
- The machine may only be used as a cleaning device for hard floors. Use on other surfaces may result in damage to the machine and personal injury.  
Instructions in this manual for other purposes. We accept no liability for any loss or damage resulting from this.
- The machine works on dirty surfaces with various types of dirt on hard surfaces.
- Any form of modification may impair the performance, service life, and even the safety of the machine and may violate regulations. Damage caused by modifications is not covered by the "three guarantees."
- When starting the machine, keep all body parts away from rotating parts to avoid injury from the machine's rotational movement.
- This machine must be placed on level ground; avoid placing it on a slope, as this may lead to other safety accidents.
- The power supply to the floor cleaning machine must be disconnected before maintenance or servicing work is carried out.
- The battery should be stored in a well-ventilated place when charging. If the battery is not sufficiently charged, it should be recharged in a timely manner.
- After finishing work, remove the key and store it safely to prevent unauthorized operation by unauthorized persons.

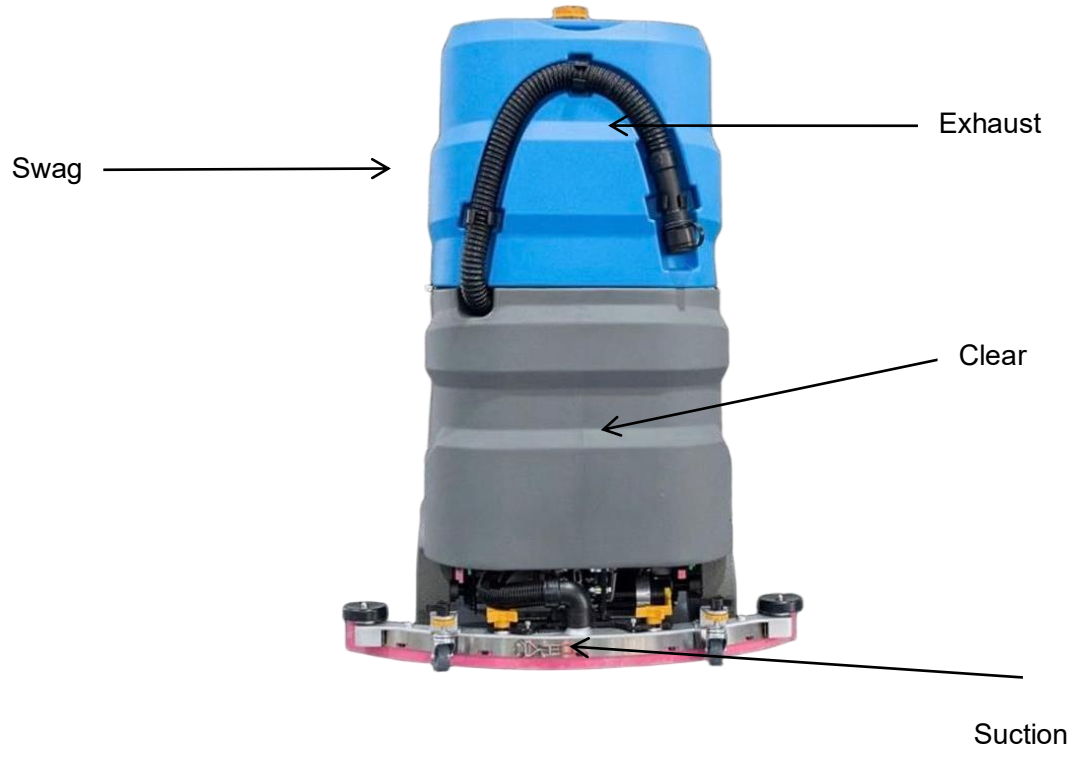
- When not in use, all buttons should be closed to extend the service life of sensitive parts and maintain the machine.
- Do not rinse the machine directly with a water gun or high-pressure cleaner.
- It is strictly prohibited to use this machine in dusty workshops and in flammable and explosive locations.
- The temperature requirements for storage and operation of this machine must be 0 °C to +40 °C (32 ° °F to 104°F).

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## 1. Complete machine structure

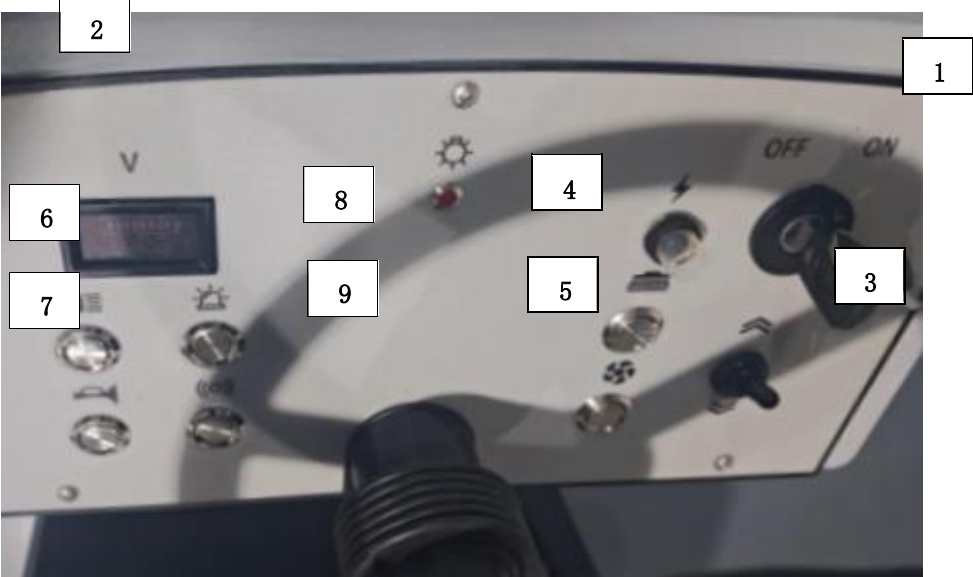




## 2. Performance parameters

Class	Unit	Parameters
Cleaning width	mm	735
Squeegee width	mm	920
Operating hours	h	3-4
Theoretical working efficiency	m <sup>2</sup> /h	4100
Battery capacity	V/Ah	24/100
Suction motor power	W	50
Brush motor power	W	55
Drive motor power	W	50
Fresh water tank	L	85
Waste water tank	L	90
Weight of the machine	kg	225
Working size	mm	1370*780*1240

### 3. Control system



- ①            ② Battery indicator            ③ Forward and reverse buttons
- ④ Suction start button            ⑤ Flash start button            ⑥ Light buttons
- ⑦ Horn button            ⑧ Warning light switch            ⑨ Buzzer button
- ⑩ Rocker switch for absorbent squeegee            ⑪ Rocker switch for brush disc

## 4. How it works

1. The cleaning parts of the machine are: a fresh water tank, a waste water tank, a brush plate, a water suction device, and a water suction motor.
2. The buttons on the control panel control the machine's brush washing function.
3. The machine rocker can be used to control the machine's brush function and water intake function.

## 5. Land cleaning

The mixture of water and cleaning fluids in the water tank flows from the brush plate through the solenoid valve onto the floor and cleans it with the help of the floating brush. As the machine is moved forward, the water jet collects the dirt from the floor and sucks it through the suction pipe into the dirty water tank.

## 6. Machine operation

### 6.1. Pre-operation check

- (1) Check the machine for fluid leaks.
- (2) Check the sealing ring on the waste tank lid for damage or foreign objects.
- (3) Check whether there are any threads, ties, plastic packaging, etc. around the wound.

## **6.2 Check the suction pipe**

- (1) Check whether the suction pipe and suction device are clogged or whether the waste water pipe is cracked.
- (2) Check whether the machine has been emptied and the waste water tank and waste water pipe have been cleaned.

## **6.3 Workflow**

For safety reasons, the machine may only be operated after reading the operating instructions.

- (1) Check the machine and fill the fresh water tank with clean water.
- (2) Open the machine.
- (3) Turn on the machine key.
- (4) Select the direction switch on the machine control panel (forward or reverse) as required.
- (5) Lower the joystick for the floor brush and the joystick for the water intake.
- (6) Wait until the washing machine has lowered the brush and the water.
- (7) Move the machine forward (in the washing direction) to clean.
- (8) After cleaning, lift the brush plate rocker and remove the rocker.
- (9) Wait until the floor washing brush plate and the wiper rake have been raised.
- (10) Drive the floor washing system out of the cleaning area.
- (11) Empty and clean the waste water tanks and waste water pipes.
- (12) Turn off the power supply.

## **7. During machine operation**

- (1) Try to drive straight ahead as quickly as possible to avoid collisions with pillars and obstacles and scratches on both sides of the machine.
- (2) Adjust the driving speed as necessary during the cleaning process.
- (3) If the cleaning effect of the machine is unsatisfactory, please stop cleaning and read the section "Machine faults      Troubleshooting" section.
- (4) Avoid standing in one place during use to prevent damage to the floor and machine brush.
- (5) If there is any contamination in the water tank, please remove it.
- (6) When the waste water tank is full, the waste water sensor in the waste water tank will cut off the power supply to the water suction motor. Please empty the waste water tank in good time to ensure normal use.
- (7) Observe the performance display panel at all times during use.

## 8. After completing the work

- (1) Please drive the machine to the drainage ditch.
- (2) Check that the key switch is closed.
- (3) Remove the drain pipe from the waste tank, hold the water pipe upwards, open the drain cover, and slowly move the lower drain pipe to begin draining the waste water.
- (4) Dry and empty the waste tank.
- (5) After draining the wastewater, open the wastewater tank and rinse it with clean water.
- (6) Once the waste water tank is empty, cover the waste water cover and return the waste water pipe to its original position.
- (7) Close the waste water tank cover, open the fresh water tank cover, and fill with fresh water.
- (8) When the battery is charged, first plug the charger's output plug into the device and then plug in the power cord.
- (9) The charger will automatically start charging. When the battery is fully charged, the charger will automatically cut off the power supply to protect the battery and the charger.
- (10) After charging, first unplug the power cord and then unplug the device.

### **Warning!!!**

To charge the device, the original charger from the manufacturer Virender must be used.

## 9 Troubleshooting the device

Problem	Cause	Solution
No suction power	The suction motor is switched off	Open the water intake motor
	Wear on the adhesive strip for water intake	Turn the direction or replace the water suction device and select the adhesive strip
	Shift in water absorption	Adjust the water absorbers
	The suction line is clogged	Remove the blockage
	The waste water filter grid is dirty	Clean the filter
	Water with crumbs	Remove the dirt
	The suction pipe connected to the suction pipe is loose or damaged	Reconnect or replace the suction pipe
	The cover of the waste tank or waste pipe is not closed properly	Check for blockages and close the lid
The water intake motor is not working	The suction motor switch is turned off	Turn on the water intake motor switch
	Wastewater tank full	Dry the septic tank
	Foam has filled the waste water tank	Empty the waste water tank
		Reduce the use of cleaning agents or add anti-foaming agents to the waste water tank.
The sewage tank sensor is dirty, damaged, or clogged	Clean or replace the sensor	
The brush plate is producing less water or no water at all ( )	The clean water tank is empty	Fill the water tank
	The water valve was closed	Open the water valve
	Solenoid valve damaged	Replace the solenoid valve
	The filter screen of the fresh water tank is clogged	Dry the water tank, remove the filter from the water tank for cleaning, and then reinsert it
Washing performance is not good	You are using an unsuitable cleaning agent or brush	Contact the maintenance staff
	Waste water tank full	Empty the waste water tank.
	Fresh water tank empty	Fill the water tank with water
	With dirt on the pen holder or cleaning pad	Remove the trash
	Wash and wipe the floor	Replace the brush

Low battery power		Charge the battery until the charger is turned off
Solenoid valve contaminated	When switched off, the water drain valve is open and water flows continuously	Fill the water tank with water, open the water valve fully, and start machine, use the water pressure to flush out the impurities in the solenoid valve Wash it clean [repeat this step several times]
Damage to the solenoid valve		Replace the solenoid valve

## 10. Daily maintenance and replacement of vulnerable parts

### 10.1 Replace the brush plate

- (1) Place the machine on a flat surface and make sure that the brush plate lifts up.
- (2) Turn the brush plate counterclockwise to remove it.
- (3) For safety reasons, please park on a horizontal surface and switch off the machine.
- (4) Turn the brush plate clockwise to install it.
- (5) Check the brush plate and drive wheel daily for wear or wire entanglement.

## 10.2 Suction strip

- (1) The water suction strip is the waste water strip; run the suction motor through the waste water tank.
- (2) Check the suction and adhesive strip for wear daily. If the water suction strip is half worn, reverse the direction or replace the strip.
- (3) The water suction device can be removed from the water suction bracket when transporting the machine to prevent damage.
- (4) When removing, first pull off the suction hose and then unscrew the fixing nut counterclockwise.
- (5) When installing the water intake strip, check whether it is worn. If one side is worn, replace the other side. If both sides are worn, replace the water intake strip with a new one.
- (6) When replacing the new rubber strip, place the strip with a gap at the rubber edge in front of the intake component and the strip without a gap behind the intake component. First insert the front strip, mount the water intake on the base plate, and then insert the rear strip. Pay attention to the opening on the water intake strip on the flange of the water intake device, insert the water intake strip, tighten the buckle, and then tighten the lower nut of the water intake device.
- (7) Replace the water intake strip on the water intake strip holder and install the waste water pipe.

### **10.3 Moving the machine**

If you want to push the machine forward or backward after switching it off, please press the handle of the electromagnetic brake upwards to deactivate the electromagnetic brake function. However, it must not be pulled sideways.

### **10.4 Transporting the machine**

Be sure to follow the procedures below when using a truck or trailer.

- (1) Lift the suction device and brush plate motor. For safety reasons: When loading the machine onto a truck or trailer or unloading it from a truck or trailer, the water tank must be emptied before loading the machine.
- (2) Please place obstacles behind each wheel to prevent the machine from slipping.
- (3) Secure the machine mount with ropes and tie it to a trailer or truck to prevent the machine from tipping over.

### **10.5 Storing the machine**

If you are storing the machine for a long period of time, perform the following steps.

- (1) Dry and clean the fresh water tanks and waste water tanks, and open the waste water tanks for ventilation.
- (2) Store the machine in a cool, dry place. Do not expose the machine to rain; store it indoors.
- (3) Remove the battery or fully charge it every three months.

## **11. Battery maintenance**

(1) The floor cleaning machine manufactured by the company is powered by 212 V lead-acid batteries connected in series, which are maintenance-free, and the total voltage of the system is 24 V.

(2) When the machine has been in operation for a certain period of time, the battery power will decrease. When the power indicator shows the last grid, the battery must be recharged in a timely manner.

(3) Wear protective gloves when maintaining the battery to avoid contact with the battery's acidic substances.

(4) Check whether the battery cable is worn and the contact parts are loose, and replace it if necessary.

(5) The battery terminal should be kept clean and dry; there should be no residue covering the ground above the battery, as this is extremely detrimental to the battery. Heavy ash will burn the battery.

**Please note:**

◆ Correct charging method for lead-acid batteries: First plug in the battery connector, then the

power plug from ; to after fully charging, first disconnect the power plug from , and then disconnect the battery plug.

◆ To ensure a long battery life, the device should be recharged promptly after use. Deep discharge is strictly prohibited.

◆ If the device is not used for a long period of time, please fully charge the battery , disconnect the positive battery electrode, and store it.

During battery operation, deep discharge leads to a reduction in battery capacity, which shortens the service life.

**!!! Deep discharge is strictly prohibited**

Recharge the battery fully after daily use. Regardless of how much power is left, the battery must be fully recharged. If you do not use the battery for a long period of time, recharge it fully, remove it from the device, and store it separately.

# Environmental protection list

Part name	Name and content of harmful substances in the product					
	Lead (Pb)	Mercury (Hg)	(Cd)	Hexavalent Motto (Cr(VI))	Polyperylene Biphenyl (PBB)	Polymodibenzen-Riddle (PBDE)
Chassis assembly	O	X	O	O	X	X
Gripping device	O	X	X	X	X	X
Rolling plastic parts	O	X	X	X	X	X
Brush plate motor	O	X	O	O	X	X
Drive motor	O	X	O		X	X
Water suction motor		X	O	O	X	X
Brush plate protection	O			X	X	X

This form was created in accordance with SJ/T1364.

O indicates that the content of this hazardous substance in all homogeneous materials is within the requirements for limited quantities specified in GB/T26572 is below the requirements for limited quantities.

△ Means that the content of hazardous substances in at least one of the homogeneous materials of the component exceeds the limits specified in GB/T26572

X indicates that the substance is not present in the component.

Note: The content of harmful substances in the products in this table does not include batteries that need to be replaced regularly.

Under the normal conditions of use described in this specification, the environmentally friendly service life of this product is 10 years. The product can be used without concern during its environmentally friendly service life, but should be recycled after this period.