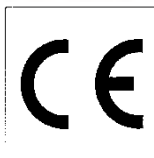




SCRUBBER DRYER RANGE INSTRUCTION MANUAL



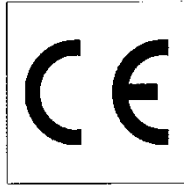
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SD RANGE

INSTRUCTION MANUAL

- **Description:** Walk-behind scrubber-dryer for use in retail / industrial premises
- **Model:** SD20 SD40 SD50
- **Manual revision:** 1.0.0

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**In order to obtain the best results, it is recommended to use original Victor consumables
The trade or registered marks mentioned in this manual belong to their respective owners.**

Please carefully read this manual in its entirety, strictly comply with the instructions it contains and above all - for safety reasons - do not perform any type of procedure that is not specifically mentioned herein.

The following symbols are used in the guide for the purposes outlined by the following descriptions:

WARNING

WARNING - Hazardous or unsafe procedures that might cause severe personal injury or even be fatal.

CAUTION

CAUTION - Hazardous or unsafe procedures that might cause non-severe personal injury or damage to the machine or surrounding objects.

FOR SAFETY

Used to identify actions to be undertaken for safe machine operation.



Before using the device for the first time, read these original instructions, follow them and store them for future use or in case of resale of the device.

1. MACHINE DESCRIPTION

The Victor SD range are Walk-behind Scrubber-Dryer machines, to wash and dry hard floors, battery powered and with cable.

The main systems of the machine are as follows:

- The detergent solution tank and relevant circuit,
- The washing brushes plate
- The dirty water recovery tank and relevant circuit
- The electrical system and relevant control panel, the steering and speed device.

The function of the detergent solution tank is to store water (with dilution of any detergent), supplying it to the washing system.

The relevant system includes the tank, filter, proportional valve to adjust flow rate and controls.

The tank contains the detergent solution (water and detergent) and supplies it to the washing system when required. The filter protects the solenoid valve from debris contained in the water. The proportional solenoid valve controls detergent solution supply to the washing system. The valve automatically prevents the flow of the detergent solution. The control selector of the solution flow - by controlling opening duration and section of the solenoid valve - regulates the amount of detergent solution conveyed to the washing system.

The disc washing device includes: two counter-rotating disc brushes, the electric motor that rotates 2 brushes and a turbine for liquid extraction. The brushes wash the floor while the motor and the pair of gears, solidly attached to the brushes, actuate their motion. The side band, in bristles, lets the detergent solution remain in the brushes' working area.

The wiper (or squeegee) is the water collecting device. It can be lifted manually: when it is lifted towards the machine's belly, it attaches firmly to the belly by means of 2 magnets.

The water flow is regulated by a proportional solenoid valve (from 0 to 2.0 litres/minute), there is also the option of mixing the water with the chemical detergent, contained in the specific bottle. The mixture percentage is set by a peristaltic pump which regulates the detergent flow, conveying it and mixing it downstream of the proportional solenoid valve (in the version with Ki-Do device).

The function of the recovery device (wiper or squeegee) is to suck the dirty water and convey it to the recovery tank.

The recovery system includes: the wiper, the vacuum turbine, the filter, the recovery tank and the controls. The wiper collects the dirty detergent solution from the floor as the machine moves forward. The vacuum turbine assures the necessary vacuum to suck the dirty detergent solution from the floor and convey it to the recovery tank. The recovery tank stores the dirty detergent solution.

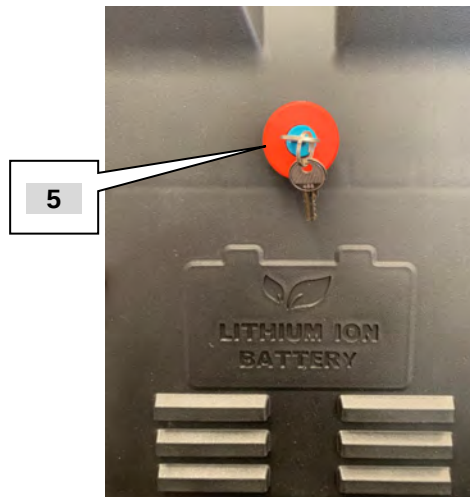
The maximum recovery water level is controlled by a level sensor connected to the control unit and acting on the motor; therefore the turbine and the brushes will stop operating as soon as the recovery water reaches the maximum level.

The function of the control devices is to control the various settings of the machine.

They include:

1. Start controls
2. Display
3. H2O metering button
4. Brush and suction button
5. Power key – Emergency-button





1.1. Description of control panel

1. Start-up controls

The machine is started up by either red control on the handle (right or left)

2. Display

When the machine is switched on with the key selector located on the emergency pushbutton, the total hours worked are displayed.

When the button (brushes and suction) is pressed, and when the machine is started up with the handle controls (1), the power input and residual battery life are displayed

3. Water metering button

It lets you select the amount of water to be fed into the brushes (L/min). It is possible to sequentially select the following amounts: 0.3-0.6-0.9-1.5-2 L/min.

By pressing and holding the button, it is possible to freely drain the water from the solution tank into a manhole or appropriate drain pit.

4. Brush and suction button

Option of selecting 2 modes:

ECO: Brush rotation at the lowest number of revs

STANDARD: Rotation at the maximum power

By pressing and holding the button for 5 seconds, it is possible to select detergent dose in the following percentage amounts: 0.2-0.5-1-1.5 (where the KiDo detergent metering Kit is installed)

5. Power key – Emergency pushbutton

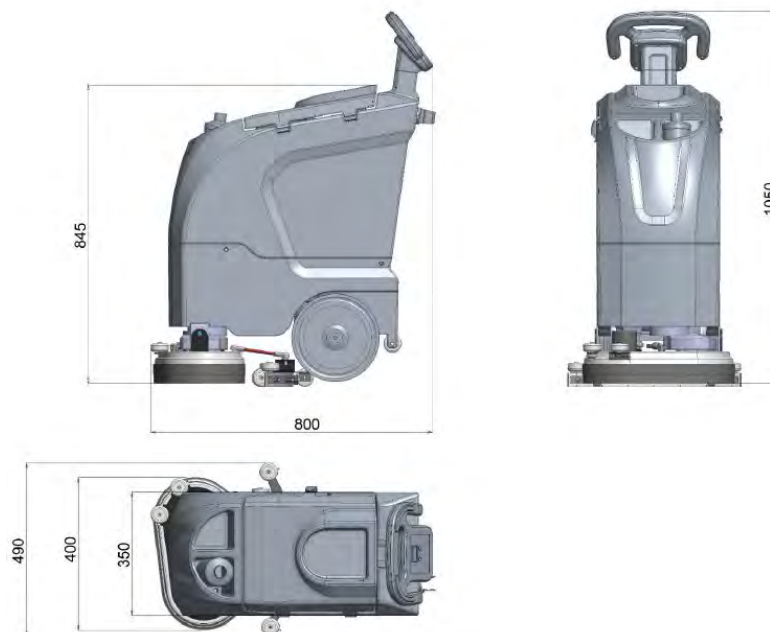
Machine Start-up with key selector on the emergency pushbutton. At the end of the work session, engage the emergency and lock by extracting the key

2. TECHNICAL SPECIFICATIONS

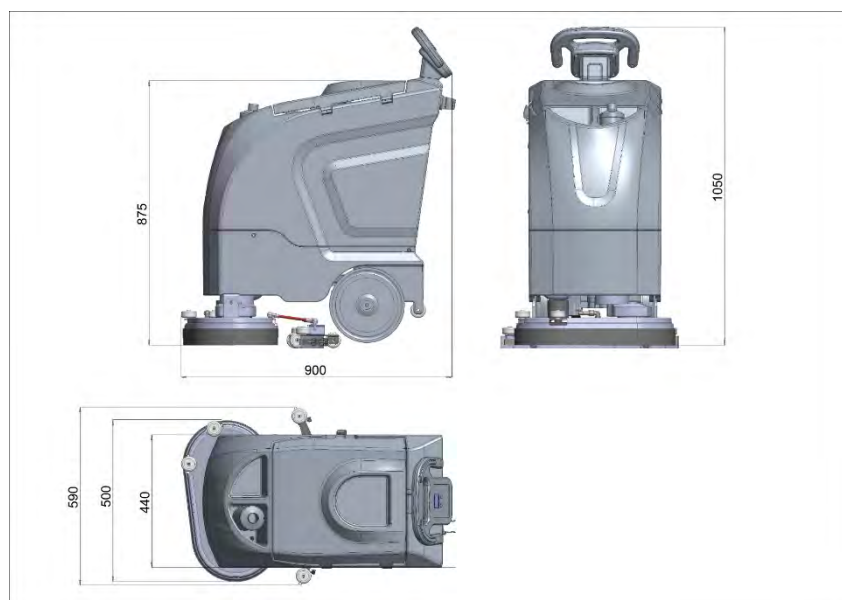
Technical Information

Description		SD20	SD50
Voltage		54,6V	54,6V
Power Installed	1 Motor	500 W	500 W
Power Consumption	Eco-Mode / Max	240 / 340 W	290 / 390 W
Tanks capacity	Fresh/Dirty	20 / 22 L	40 / 45 L
Area2Clean	Suggested	250 - 750 sqm	500 - 1500 mq
Productivity	Theo/Expected	1.624 / 1.050 sqm/h	2.030 / 1.320 sqm/h
Sqm Clean Area / charge cycle	Eco-Mode / Max Power	2.100 / 1.500 sqm	4.400 / 3.300 sqm
Noise level	Eco-Mode / Max Power	64,6 - 66,6 dB(A)	64,6 - 66,6 dB(A)
Energetic Consumption	Eco-Mode / Max	0,14-0,21 W/sqm	0,14-0,19 W/sqm
Length		800 mm	900 mm
Width with squeegee		490 mm	590 mm
Height		1100 mm	1100 mm
Weight		50 kg	60 kg
Noise Level		69 dB(A)	69 dB(A)
Protection rate		IPX3	IPX3
Warranty		36 months or 1000h	36 months or 1000h
Scrubbing system			
Working width		406 mm / 2x8"	508 mm
Brushes rpm	empty/full	340/300	340/300
Load on brushhead		30 Kg	30 Kg
Water Flow	adjustable	0-2 l/min	0-2 l/min
Detergent Dosing System (KiDo)		prepared	prepared
Vacuum system			
Width		490 mm	590 mm
Vacuum	Eco-Mode / Max	600/900 mmH2O	600/900 mmH2O
Weight and Packaging			
Dimensions	WxLxH	910x520x1.000 mm	910x520x1.000 mm
Total weight unit / with packaging		57 / 71 kg	67 / 81 kg
Batteries and Charger			
Capacity	Li-Ion with BMS	54,6V/10,20Ah	54,6V/20,40Ah
Runtime		2h	3h
Charger	UL certified	54,6V - 5A	54,6V - 5A
Charging time		2h	4h
Charging cycles		1000	1000

2.1. SD20 Dimensions



2.2. SD40 Dimensions

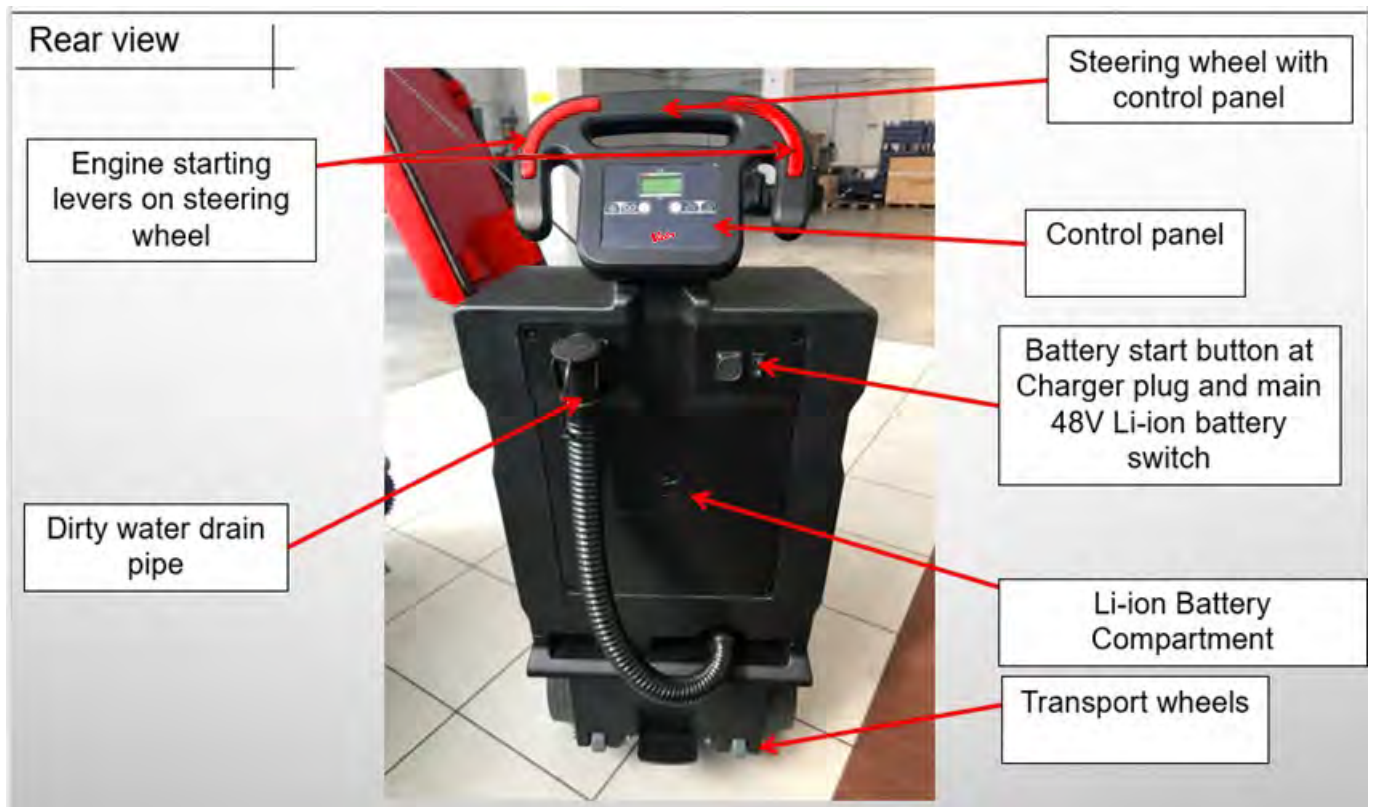


2.3. Functional units

LIST OF UNITS

1. Control panel
2. Solution tank
3. Recovery tank
4. Recovery tank lid
5. Recovery tank discharge flexible hose
6. Brush head
7. Detergent solution discharge flexible hose
8. Wiper
9. Vacuum engine (turbine)
10. Chemical detergent tank compartment (OPTIONAL)
11. Battery compartment
12. Turbine discharge air filter
13. Brush rotation motor
14. Water loading spout

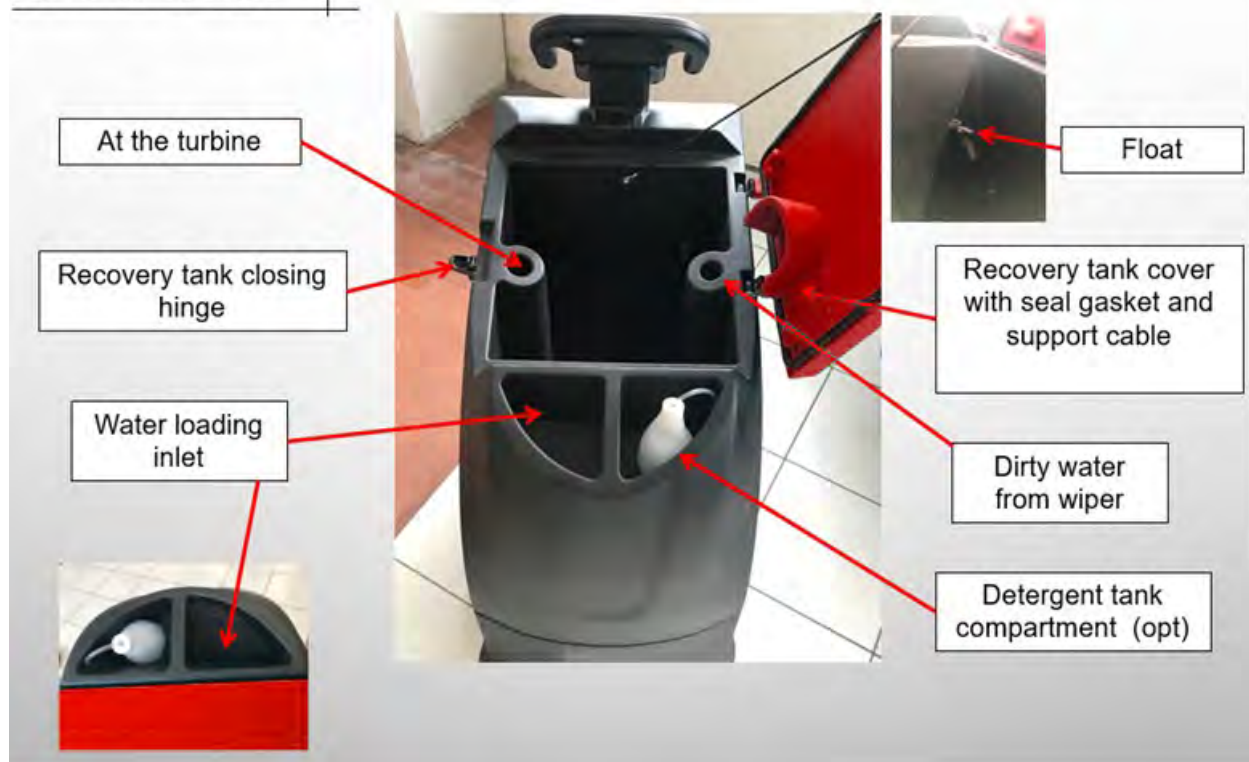
Details:



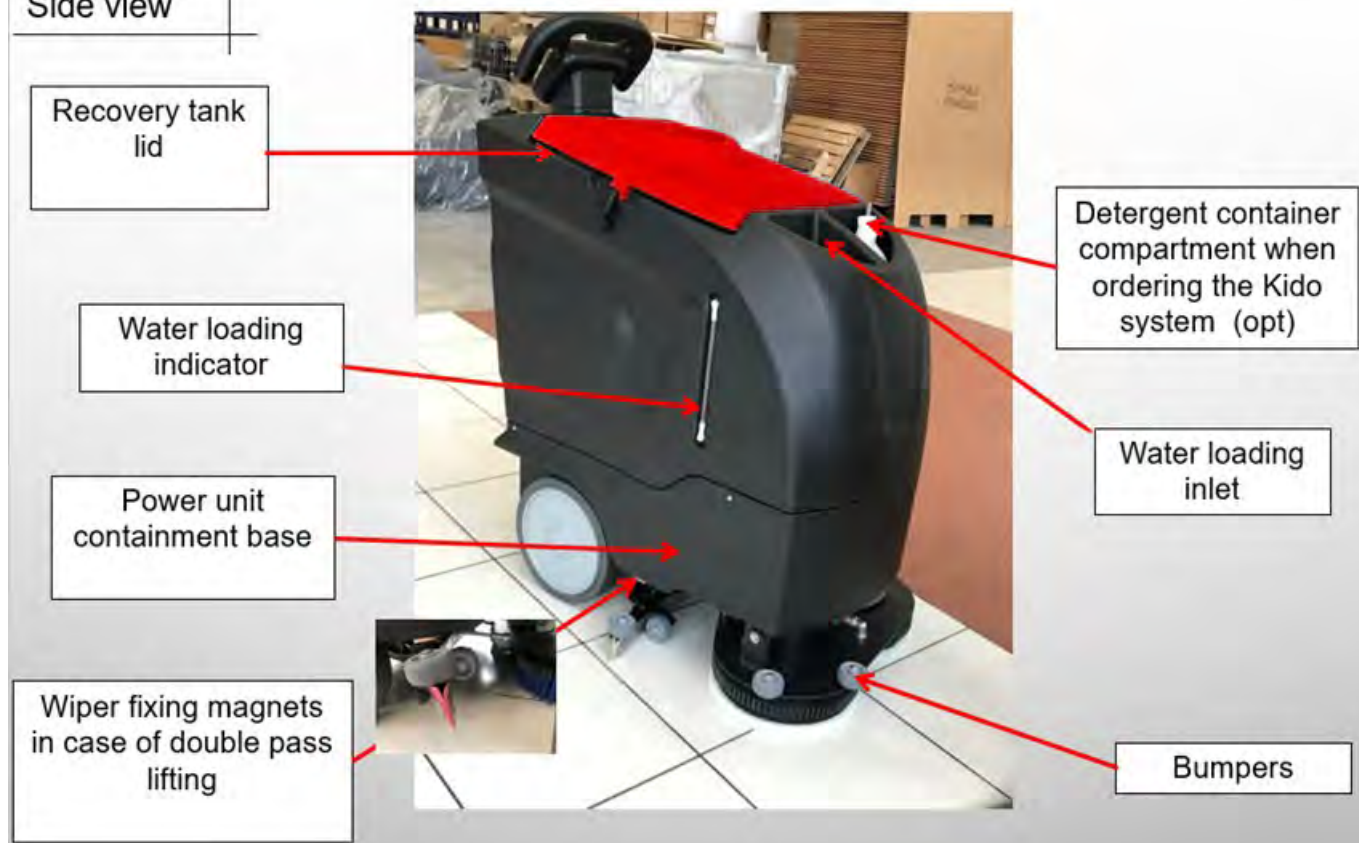
Ergonomic Steering Wheel & Control Panel



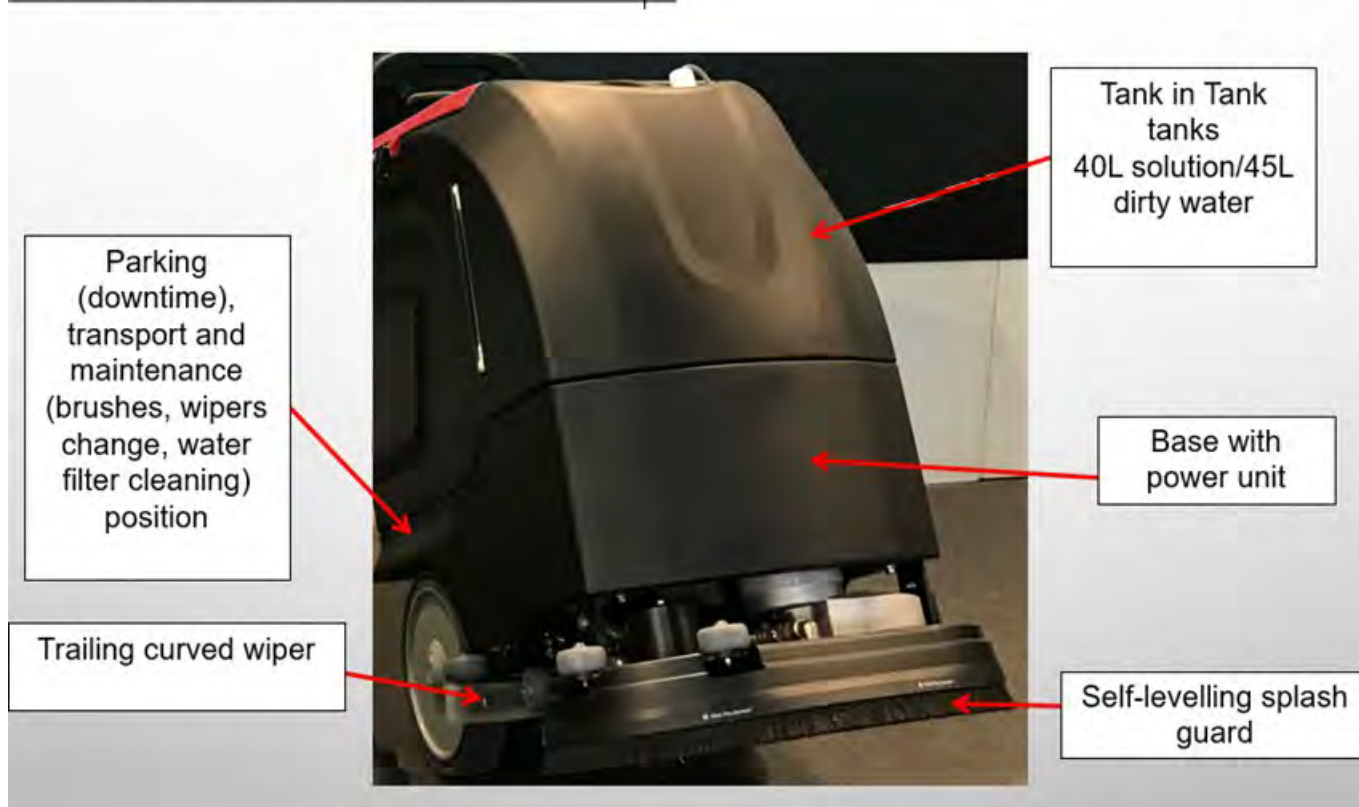
Tank internal view



Side view



Front view & Parking position



Side view



3. SAFETY FEATURES

WARNING

- To reduce the risk of fire, electrical shocks or personal injury, comply with the following instructions
- Only use the machine indoors. Do not use the machine outdoors and do not expose it to rain.
- Exclusively use the machine complying with the instructions described in this manual.
- Only use the components and accessories recommended by the manufacturer.
- If the machine does not work correctly, or it has been dropped, has been damaged, has been left outside or has fallen in water, hand it to an authorised service centre.
- Do not use the machine if one of the openings is obstructed. Keep the openings clear from debris which might reduce the air flow.
- The machine has not been designed to collect hazardous powders.
- If it is operated near flammable vapours or materials, the machine may cause fires.
- Do not operate the machine near flammable liquids, powders or vapours.
- The machine is designed for commercial use, e.g. to be used inside supermarkets, hotels, schools, hospitals, factories, warehouses, thus for more complex applications than simple domestic cleaning operations.
- The use of the machine must be exclusively entrusted to personnel trained and informed on correct use.
- Maintenance and repair operations must be performed exclusively by qualified personnel.
- Should any foam or liquids escape the machine, immediately turn it off.

-
- Before performing cleaning or maintenance operations, disconnect the battery (when the emergency is engaged, all connections are cut off, including the battery)
 - Before handing the machine to a waste collection centre, the battery must be removed and correctly disposed of.
 - Ensure all warning labels are legible and correctly applied to the machine.
 - During operation, pay the utmost attention to other people, especially children.
 - Before using the machine ensure all covers and doors are in the positions specified in the instructions.
 - When the machine is left unattended, adopt all necessary measures to prevent any unintentional movement of the same.
 - The machine must be exclusively operated by trained and authorised personnel.
 - When the machine is left unattended, engage the emergency, turn the locking key and extract the key.
 - Exclusively use the chemicals recommended by the manufacturer.
 - The machine is designed to be used with the brushes specified by the manufacturer. The use of other types of brushes may affect the machine's safety.

WARNING

- Lithium-Ion batteries comply with specific reference standards – Correct use according to the manufacturer's manual is recommended
- Do not use the machine near sparks or naked flames.
- Keep the batteries away from sparks or naked flames.
- Do not smoke near the batteries.

WARNING

- Disconnect the batteries before performing any kind of procedure on the machine. (engage or release the emergency)
- Every procedure on the machine must exclusively be performed by skilled personnel. Always wear protective clothing and glasses in case of operations on the batteries or near them.

WARNING

- Strictly do not wash the floor scrubber dryer with pressure washers and electrical parts with water.

FOR SAFETY

-
- Immediately report any machine damage or malfunctioning.
 - Do not use the machine unless it is in perfect operating conditions. Carefully read the information.
 - Identify all the machine's safety devices.
 - Assure adequate training of the personnel in charge of operating the machine.
 - DO NOT OPERATE THE MACHINE IN THE FOLLOWING CASES:
 - You have not been trained and authorised.
 - The operating Guide has not been read.
 - You are in an area under risk of fire or explosions.
 - You are in an area where there is a falling objects hazard.
 - DURING MAINTENANCE OPERATIONS:
 - Avoid moving parts. Do not wear loose clothes, such as jackets, shirts or in general, necklaces or hanging objects
 - clothes with wide sleeves when using the machine.
 - Use Victor approved spare parts.

3.1. Declaration of absence of harmful substances

We hereby declare that our products, used in the process of assembling the machine, are produced with materials that comply with the limits established by the regulations in force on the protection of health and the environment and do not contain substances classified as SVHC (Substance of Very High Concern) in accordance with CE 1907/2006 regulation (REACH, i.e. *Registration, Evaluation, Authorisation and Restriction of Chemical substances*).

Although the above mentioned substances are not employed in processing cycles of raw materials and our products, their presence cannot however be ruled out in the order of p.p.m. (parts per million), due to the micro-pollution of the raw materials.

3.2. Safety devices of fixed closing guards

The components that protect some areas that contain moving parts or live equipment are considered fixed closing guards.

The brush plate is fitted with closing guard, consisting in the plastic material protection casing.

WARNING

Do not remove the fixed closing guards. In the event of maintenance, ensure the same are reassembled before turning on the machine and starting to work.

3.3. Safety devices relevant to mobile guards

The brush plate is protected by a mobile guard.

The battery compartment is located on the back plate, in front of the operator. To access it, remove the 4 screws locking the plate and disconnect the wires.

Inside the battery are 2 safety adhesive labels, that prevent removing the battery from its compartment.

Tampering with these seals entails forfeiting the battery warranty.

For any maintenance need, the customer must remove the entire compartment + battery, by unscrewing the set from the back plate and must ship it to the manufacturer for tests and possible replacement under warranty.

4. CE PLATE POSITION

The technical specifications plate bearing the CE marking is attached on the control handle base, it is adhesive and must not be removed for any reason.

 IIC Products LTD Unit 15 & 16 Ace Business Park Mackadown Lane Birmingham B33 0LD 0121 706 5771 www.victorfloorcare.com					 IPX3 2%					 IIC Products LTD Unit 15 & 16 Ace Business Park Mackadown Lane Birmingham B33 0LD 0121 706 5771 www.victorfloorcare.com					 IPX3 2%					 IIC Products LTD Unit 15 & 16 Ace Business Park Mackadown Lane Birmingham B33 0LD 0121 706 5771 www.victorfloorcare.com					 IPX3 2%				
Walk behind scrubber dryer					SD20					Walk behind scrubber dryer					SDM40					Walk behind scrubber dryer					SD50				
Serial No: 0001					Year 2021					Serial No: 0001					Year 2021					Serial No: 0001					Year 2021				
Power	DC	Weight	Tank	Path width						Power	DC	Weight	Tank	Path width						Power	DC	Weight	Tank	Path width					
500W	48V	55 Kg	20L	400mm						500W	48V	67 Kg	40L	500mm						500W	48V	67 Kg	50L	700mm					

5. MACHINE TRANSPORT AND LIFTING

The machine is fitted with 2 main wheels to use the machine in work mode, whereas for transfers 2 small additional caster wheels are used, which become operational when the machine is tilted towards the operator. Place the machine on a pallet, taking care to lock the wheels to prevent the machine from moving. (possibly use wedges)
Transport and any lifting must be done with the machine on a pallet.

It is recommended to empty the solution recovery tanks.

6. INTENDED USE OF THE MACHINE (washing and drying phase)

The Victor SD range are Walk-behind Scrubber-Dryer machines, to wash and dry hard floors, battery powered or with cable, intended for retail use.

The machinery applies a detergent solution to the hard floor, a solution that is collected in the solution tank and is conveyed through suitable piping to the brush plate, with solenoid valve adjustable flow, it scrubs the floor by the combined action of two counter-rotating brushes and then draws the dirty water into the recovery tank.

It is also possible to spray the floor with water, actuating the brushes only for scrubbing and cleaning, without drying.

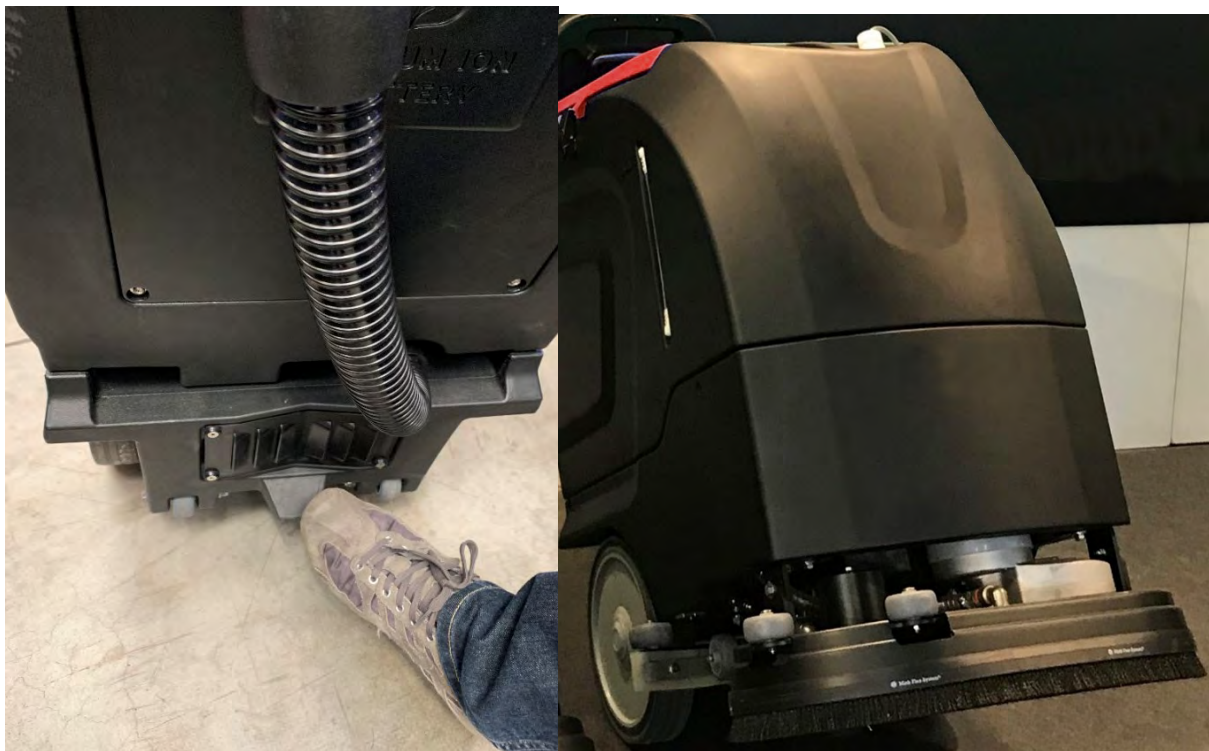
Finally, it might be required to switch off the water adjustments, when the floor is already wet, and make several runs until the floor is completely clean and dry.

The SD machine is not intended for any other operations.

Any other operation should therefore be considered as misuse.

7. INTENDED USE OF THE MACHINE (machine being moved without washing or drying)

The SD Machine can be handled without brush plate lowered and brushes in contact with the floor, or with the drying turbine turned off. This can happen during transfer from one room to another, at the end of cleaning or for other reasons. Just act on the rear support located on the machine back to be able to move it conveniently.



8. REASONABLY FORESEEABLE INCORRECT USE OF THE MACHINE

WARNING

The machine is not intended for outdoors use.
Do not wash and extract corrosive, flammable, explosive liquids, even if diluted.
It is strictly forbidden to use the machine in environments with explosion hazard where there are flammable and explosive gases, vapours, liquids and powders.

FOR SAFETY

Do not wash the floors with water hotter than 50°C;
Do not use diesel fuel/benzene or corrosive detergents for washing floors;

WARNING

The machine has been designed to work on flat surfaces and minor gradients.

The maximum permitted gradient, which can be travelled up either during operation or transfers, is 2%.

To travel down, it is recommended to move in reverse for optimal performance.

If one travels down in the travel direction, owing to the possible surface condition (wet, uneven or low friction material) dangerous slipping may occur, or long braking space, even more evident and hazardous when transferring and moving the machine, when the brush plate is lifted from the floor.

9. SUPPLIED KIT

No other material is supplied with the machine in addition to this instruction manual.

10. INSTALLATION

10.1. Preliminary operations

The machine is shipped completely assembled and packed on a pallet.

To load the machine from the pallet, resting it on the floor, use the special slide platform. It is recommended not to push the machine down the pallet without a suitable ramp.



Before use perform the following operations:

1. Perform a preliminary inspection to identify any problems that might cause malfunctioning or breakdowns.

Visually ensure there is no external damage, leaks and the wheels are not damaged.

3. Ensure the wiper is correctly adjusted.

4. Ensure the discharge pipe, the relevant cap, the pipe from the wiper are correctly installed.

5. Check battery conditions and if necessary recharge it.

Should any damage, fault or missing parts be detected, do not commission the machine and contact your Dealer or directly to Victor.

11. MACHINE PREPARATION AND COMMISSIONING

11.1. Machine start up

NOTE: Before operating the machine, perform preliminary inspection.

FOR SAFETY

Before starting the machine up, ensure the emergency on the back of the machine is not pressed.

11.2 Machine filling

FOR SAFETY

Before leaving the machine unattended or performing any maintenance operation, ensure it is on a flat surface, turn off the machine.

1. The solution tank may be filled to maximum filling capacity (20 or 40 litres), paying attention to the level shown in the small gauge pipe located on the side of the tank, under the filling spout.
2. It is advisable to fill the solution tank, and pour the filling water in the appropriate housing, fitted with blue filter (dirt filter)

Leave a sufficient volume for the detergent.

To avoid damaging the tank, the water temperature must not exceed 50°C.

Measure the amount of chemical in the solution tank after filling it with water. Before adding not-liquid chemicals into the tank of the solution, dissolve them completely. The machine can also be equipped with automatic chemical dispenser, adjustable from control panel (for version Ki-Do -optional-).



12. USE OF THE MACHINE

12.1. Floor washing and drying

Plan the washing and drying route in advance. The longest route follows the perimeter of the area to be treated. The ideal route has the least turns, stops or brush plate lifting and lowering (to manoeuvre).

To obtain the best results, the area to be cleaned must be accurately swept prior. Remove large debris, ropes and cables, to prevent them from coming into contact with the brushes or wiper. If the machine is left on with the brush plate lowered and operating, the solution does not flow and the brushes do not rotate unless one of the two red buttons on the control handle is pressed



12.2. Start of washing and drying

When the machine is used in the presence of people, pay the utmost attention to unexpected movement. Pay even more attention in the presence of children.

1. Press the switch (0/1)
2. Press the brush start switch on the control panel. The brush motor is ready to be started in ECO mode. The brushes will only start turning when the operator starts pressing the buttons on the control handle.
3. Select the water flow quantity
4. Select the quantity of detergent (Optional)

NOTE: The rotation of the brushes and the flow of the solution are automatically interrupted when the operator takes off his/her hands from the handle. Brush motion and flow automatically resume when the start-up buttons are pressed again.

12.3. Double washing and single drying

Particularly dirty floors may not be sufficiently cleaned with one pass. In these cases double brushing must be performed.

To perform double scrubbing and washing, make a first pass with lifted wiper, manually lifting it and locking it with the magnets.

In this way the solution is in contact with the floor while the brushes work to reduce the layer of dirt. Leave a reasonable length of time elapse so that the solution is sufficiently in contact with the floor. The length of time elapsed between the first and second pass depends on the amount of dirt and type of chemical used.

A second pass with wiper and brushes lowered and activated solution further reduces the layer of dirt. A further application of solution contributes to making a hard cleaning operation much easier.

12.4. Emptying and cleaning the recovery tank

- 1 - Place the vehicle near a manhole drain. The discharge pipe is at the rear of the machine.
4. Remove the drain hose from the hook. Unscrew the cap and lower the drain hose towards the floor drain. Stay behind the end of the pipe. Lock the filthy water by pressing the rubber; remove the cap from the drain hose slowly. The recovered solution escapes with adjustable pressure from the rubber hose mentioned above.
5. Open the upper tank cover.
6. Wash the recovery tank with clean water. Repeat washing until clean water issues from the discharge pipe. Do not use water at temperature higher than 50°C as it might damage the tank.
7. Replace the cap and the discharge pipe.
8. If the machine must be left inactive for a long period of time do not close the recovery tank upper cover and the drain hose cap, to allow air to circulate inside it.



12.5. Emptying and cleaning the solution tank

1. Place the vehicle near a floor drain. Press the emptying button, located on the control panel (by pressing the water delivery button for 5 seconds). This way, water flows out in the middle on the brush plate
2. Wash the tank with clean water and run clean water into the system, until reaching tank capacity (20-40 litres). Do not use water at temperature higher than 50° to clean the tank as it might be damaged.

NOTE: Never leave the solution inside the tank as it might damage the tank, the seal gaskets and the solenoid valves.

13. CONTROL STATION

13.1. SD CONTROL STATION



1. Start-up controls
2. Display
3. H2O metering button
4. Brush and suction button
5. Power key – Emergency pushbutton



13.1.1.Key switch 0/1

There is a key on the emergency pushbutton to be extracted after engaging the emergency to lock the machine.

13.1.2.Brush rotation activation switch (4)

This switch controls brush rotation. To start rotation, press the switch.

13.1.3.Extraction activation switch (4)

The same switch starts the brush motor and the extraction turbine.

13.1.4.Water dispensing switch (3)

For the desired amount of water to flow out onto the brush plate. The following quantities are possible: 0.3/0.6/0.9/1.5/2 litres per minute

By pressing and holding the button for 5 seconds, all the water in the solution tank is fully discharged onto the brush plate.

13.1.5.Battery charge status indicator (2)

The LED display signals the battery charge status.

FOR SAFETY

Do not charge the batteries before using the machine for at least 60 minutes, in order not to damage charging cycles. Pay attention to the battery charging operation, as explained in the relevant paragraph

13.1.6. Counter (2)

The display indicates the machine's operation hours since control unit activation when the washer dryer was constructed. The counter activates at the start of brush rotation and de-activates when they stop. Therefore machine movement hours are actually measured.

13.2. CONTROLS

It is recommended to clean the wiper after each work cycle: release it from the connection by unscrewing the locking knobs, release the hose and clean in running water.

Water filter cleaning: it is located in the middle under the machine, unscrew the cap and clean the inner mesh. Fit everything back on after cleaning



13.2.1. Neutrik connector socket for battery charging

It is located directly on the back plate



13.3. Batteries

The batteries supply the power to operate the machine. For the batteries to always assure peak performance, some maintenance operations must be regularly carried out.

The Lithium-Ion battery fitted on SD models is sealed and poses no hazards at all if it is used according to the requirements of the technical specifications.

The material contained in this battery may pose a hazard only if the integrity of the battery is undermined or if it has been tampered with, mechanically, thermally or electrically.

Caution: do not open or disassemble the battery, do not expose it to naked flames. Do not short-circuit, pierce, burn, break, overload, over-discharge or expose the battery to higher temperatures than indicated. In these cases there might be explosion or fire hazard or release of unpleasant odours and fumes.

Indications for proper maintenance

Maintenance

- Recharge within 6 months. Recommended 3 months.
- Store at a temperature between 5 and 30 °C, in the original packaging.

Main rules and precautions for use

- protect the battery from possible impacts and mechanical and thermal shocks
- Do not disassemble the battery
- Adhere to the warnings on the appropriate battery label
- Do not leave the battery charger connected once charging is completed
- For other information please refer to the cell's technical specifications

Standards of reference

- EN 62281
- IEC 62133-2 Rev 2 (2017)

13.4. Charging the batteries

To charge the floor washer, connect the appropriate charger supplied to the socket on the machine then connect to the mains.

The machine is also fitted with a control directly on the control panel, by pressing and holding the water quantity selection control for 5 seconds.

This allows the solution tank to empty completely (on a manhole or appropriate drain). Should the operator forget to release the control, it stops automatically after 10 minutes.

FOR SAFETY

Before leaving the machine unattended or performing any maintenance operation, ensure it is on a flat surface, turn off the machine and remove the key.

In the event of electrolyte leakage, take all precautions to avoid contact with the fabrics you are wearing. Should this happen accidentally, follow the procedures below:

- Inhalation: breathe fresh air and aerate the contaminated area.
- Moisten mouth and nose with water. Seek medical attention.
- Contact with the skin: take off contaminated clothing and rinse contaminated parts with plenty of water. Seek medical attention.
- Contact with the eyes: rinse with plenty of water for at least 15 minutes. Go to hospital immediately. Seek medical attention.
- Swallowing: if the victim is conscious, have them drink plenty of water. Go to hospital immediately.
- Further treatment: In all cases of contact with the eyes, persistent skin irritation, swallowing and vapour inhalation, it is advisable to seek medical attention.

When charging the batteries, connect the battery charger to the batteries before connecting it to the power outlet.



13.5. Brush replacement

This is done as follows.

1. With brush plate raised (tilted machine)
2. Press on the top of the brush, so to remove the it from its rim hub and let it drop on the floor.
3. To insert the new brush, place it under the brush plate, roughly aligned with the hub, then lift it with your hands and push it against the hub until it engages the closing tabs (until you hear the snap).

In order to avoid brush or pad warping in case of no use, it is recommended to always keep the machine in a tilted position.



13.6. Wiper assembly

The machine is packed, shipped and delivered with assembled wiper.

13.7. Wiper adjustment

Two wiper adjustments are possible:

1. lengthwise tilting: act on the caster wheel locking nut to vertically move the two side wheels to adjust the height and the central one to adjust the tilt.



13.8. Wiper drying blade replacement

Two blades are assembled: one on the front and one rear, different from one each other. They are built so as to avoid installation errors.

The wiper has the purpose of picking up the water from the floor through a vacuum chamber that generates inside it.

In order to achieve maximum vacuum, plastic material drying blades (various types) are fitted that allow it to perfectly adhere to the floor with no vacuum losses. Blade replacement is therefore required to prevent decrease of water extraction properties by the wiper.

To replace the blades:

1. Loosen the two knobs, on the right and left, that lock the wiper and aim it outwards in order to make access easy.

Remove the wiper and place it on a work bench.

2. Loosen and remove the thumbscrews that fasten the blade.

3. Remove the fastening strap and the blade, then rotate upside down or completely replace the blade.

4. The same blade can be used for 4 times, causing it to work, every time, on a different edge (you should turn them every 20 working hours as a maximum).

5. Fit the blade and fastening strap on the reference pins, then screw the hand-wheels again.

6. Replace the wiper.

Normally the rear blade has an average service life halved compared to the front one.

It is also possible, if required to pass twice in the cleaning cycle, to manually lift the wiper, and fasten it with the magnets on the back plate.

In this manner the wiper remains lifted and allows the machine to wash, with the detergent on the floor. At the second pass, the wiper is lowered manually by detaching it from the magnets, so as to wipe the water off the floor and dry it

13.9. Clean water filter cleaning

The clean water filter is fitted under the machine's floor, in the middle. The filter has the purpose of preserving the solenoid valve controlling solution flow rate from any debris there might be in the solution tank.

It is recommended to clean the filter **weekly**.

In order to clean it unscrew the cup, remove the filter inside it and wash it under running water. Replace it and fit the cup back in.

The filter used also acts as a shut-off valve on the solution tank, that is by unscrewing the cup the flow automatically stops



13.10. Maintenance schedule

maintenance action	daily	every 50 hours	every 200 hours
Check seal of recovery tank cover.	x		
Visually check integrity (damage or wear) of the tyres.		x	
Ensure the brushes are correctly mounted.		x	
Check connections of vacuum flexible hoses.	x		
Clean the detergent solution filter and tank. Check flow.	x		
Clean brushes and check them for wear.		x	
Clean wiper rubbers and check them for wear. It is recommended to turn them every 20 working hours	x		
Clean the outer part of the tank. Check integrity.	x		
Charge batteries.	x		
Clean the detergent solution filters. (in the bottle)	x		

13.11. Summary for good maintenance of the machine

1. Unloading from pallet: always use a wooden base to slide down the machine
2. Loading or unloading on/from vehicle: lift the head (tilt),
3. End cleaning: always tilt the machine
4. End cleaning: always clean the recovery tank/dirty water
5. End cleaning: always clean the drying blades
6. Suction blades: it is recommended to turn them when necessary, bearing in mind that there are 4 useful positions.
7. Brushes: check for wear and replace them when requires and in any case at least once a year.
8. Water filter: inspect it and wash it regularly.
9. Batteries : charge for at least 2 hours for SD20 and 4 hours for SD50

13.12. Troubleshooting

PROBLEM	CAUSE	SOLUTION
Machinery without power supply	Emergency button pressed	Check the button
	Disconnected power cables (behind emergency button)	Check connections.
		.
No thrust forward or poor thrust backward.	Flat battery	See display
	Worn brushes	Check wear
	Unsuitable brushes for the floor	Check type
		.
Poor water collection or no water collection	Wiper not adjusted	Adjust the wiper
	Wiper clogged by debris	Remove debris
	Worn wiper blades	Rotate or replace the blades
	Water collection flexible hose clogged	Release the vacuum flexible hose
	Water collection flexible hose not correctly inserted in the recovery tank	Reconnect the vacuum flexible hose.
	Water collection flexible hose damaged	Replace the flexible hose.
	Recovery tank not hermetic.	Replace damaged seals (gaskets)
	Recovery tank full of foam	Empty the recovery tank, use less detergent or a different detergent. Use an anti-foaming agent.
		.

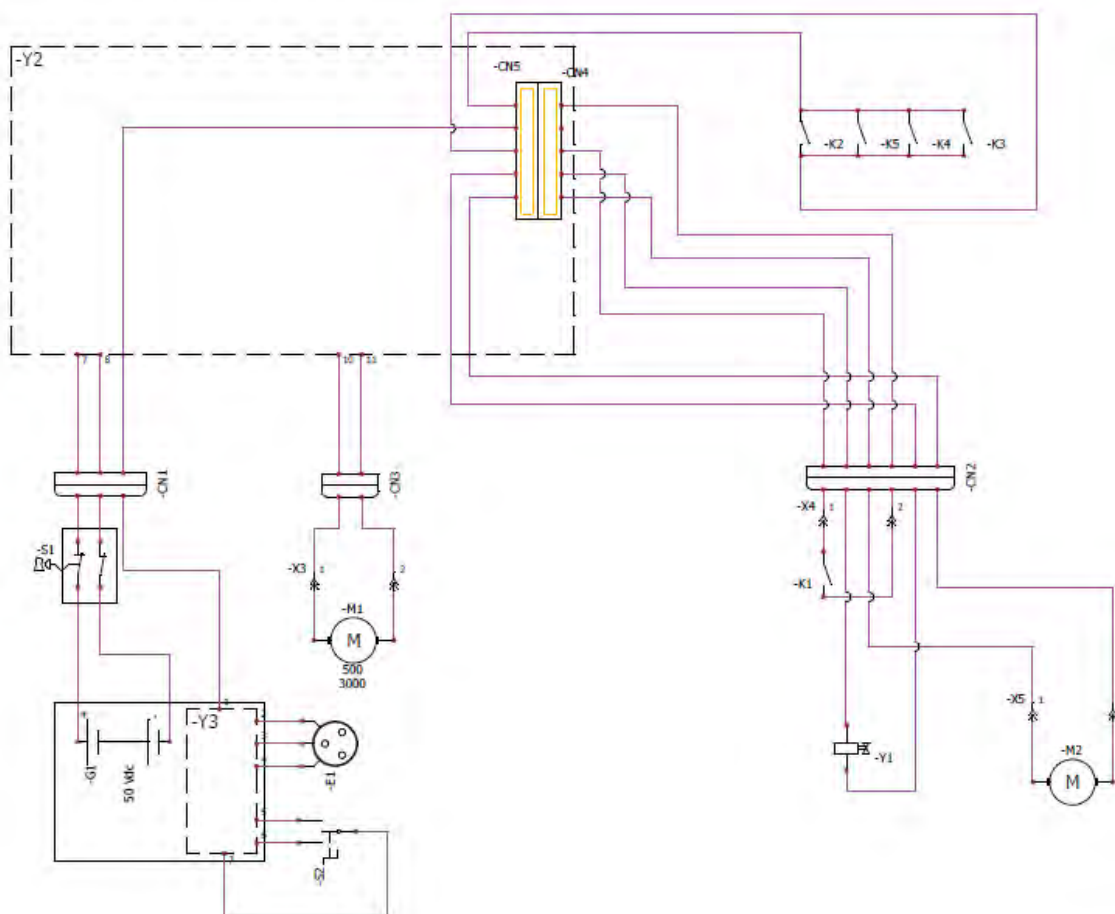
Detergent solution flow to the floor is poor or absent	Solution tank empty	Fill the detergent solution tank.
	Detergent solution flow de-activated or adjusted too low	Activate detergent solution flow or increase the flow adjustment
	Detergent solution filter obstructed	Clean the detergent solution filter.
	Obstructed piping of the detergent solution	Clear the piping.
	Detergent solution solenoid valve obstructed or jammed	Clean or replace the solenoid valve

14. Sound emission

The Leq equivalent level averaged over multiple processing cycles was detected with Class 1 precision sound level meter as set out in IEC standards with constant fast-slow reading, both from the position where the operator is located, and in positions surrounding the machine being considered.

The measured value of the sound pressure at the level of the operator, is equal to $Leq(A) = 64.6$ dB(A).

15. Wiring diagram



EU DECLARATION OF CONFORMITY

Machine Type: **Rotary Floor Cleaning Machines Series**

Machine Model: *Contractor, Europa, Lynx, Multispeed, Pro, Sprite, Tomcat, Handy,
Trojan, Wolf, LM40, Battery Burnisher, Battery Sprite, Battery Lynx*

Machine Type: **Vacuums Series**

Machine Model: *V9, WD30, WD60, WV35/35N, Woody, V-9B Tub Vacuum, CX7,
Mist Pro 360, UCS, Exhauster, SL8000 Steam Vac*

Machine Type: **Scrubber Drier Series**

Machine Model: *SD40, SX15, SD15, V-SD7C, V-SD7-R, V-SD9/500, Hyperglide*

Manufactured by IIC Products Ltd, t/a VictorFloorcare, Unit 15/16 Ace Business Park,
Mackadown Lane, Birmingham, B33 0LD

This declaration of conformity is issued under the sole responsibility of the manufacturer;
the equipment listed above fulfills all relevant provisions of the following EU directives:

Machinery Directive	2006/42/EC
Low Voltage Directive	2014/35/EU
EMC Directive	2014/30/EU
ROHS Directive	2011/65/EU

Ecodesign requirements for Vacuum Cleaners (EU) 666/2013
(implementing directive 2009/125/EC)

Applicable Harmonised European Standards and technical specifications:

BS EN 60335-1:2012, BS EN 60335-2-2:2010+A11:2012, BS EN 60335-2-67:2012,
BS EN60335-2-68:2012, BS EN 60335-2-69:2012, BS EN55014-1:2006 + A1:2009,
BS EN 55014-2:1997 + A2:2008, BS EN 60335-1:2002+A14:201, EN 61000-3-2

The technical documentation relevant to the above equipment will be held at the address
above.



Edward Blackledge

Managing Director

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