



- ATTENZIONE: leggere le istruzioni prima dell' utilizzo.
- WARNING: read the instructions carefully before
- ◆ ATTENTION: lire attentivement les istructions avant l'usage.
- ACHTUNG: die anweisungen bitte vor gebrauch sorgfältig lesen.
- **S** ADVERTENCIA: leer atentamente las advertencias antes el uso de aparado.
- تنبيه: اقرأ التعليمات قبل الاستخدام. AR>
- **№** ВНИМАНИЕ: ПЕРЕД ИСПОЛЬЗОВАНИЕМ ПРОЧИТАЙТЕ ИНСТРУКЦИЮ ПО ЭКСПЛУАТАЦИИ.
- ◆ ATENÇÃO: ler atentamente as instruções antes da utilização
- LEŤ OP: vóór gebruik de gebruiksaanwijzing aandachtig lezen.
 ■ UWAGA: przed
- użyciem przeczytać instrukcje.
- ADVARSEL: les bruksanvisningen før
- PAS PÅ! læs

 instruktionsbogen før
 maskinen tages i brug.
 ATENŢIE: citiţi
 instructiunile înainte de
- POZOR: před použitím si přečtěte návod k
- **®** ВНИМАНИЕ: прочетете указанията преди употреба.
- ΠΡΟΣΟΧΗ: Ιπριν από τη χρήση διαβάστε τις οδηγίες.

- LAVASCIUGAPAVIMENTI
- **EN** FLOOR SCRUBBERS
- FR AUTOLAVEUSES
- **DE** SCHEURSAUGMASCHINEN
- **ES** FREGADORAS
- **RU** ПОЛОМОЕЧНЫЕ МАШИНЫ
- PT LAVADORAS FREGADORAS DE PAVIMENTOS
- اوتوماتيكي تنظيف
- NL SCHROBAUTOMAAT
- PL INSTRUKCJA OBSŁUGI (Automat myjący)
- NO GULVSKUREMASKIN MED TØRKEFUNKSJON
- **DA** GULVVASKEMASKINEN
- RO MAŞINA DE CURĂŢAT PARDOSELI
- PODLAHOVÉ ŠROUBKY
- TR ISLAK&KURU YER TEMİZLEME OTOMATI
- **BG** ПОДОПОЧИСТВАЩА МАШИНА
- ΚΑΘΑΡΙΣΤΗΡΑΣ ΔΑΠΕΔΩΝ

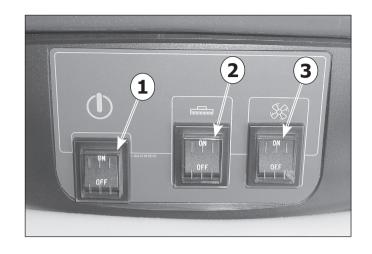
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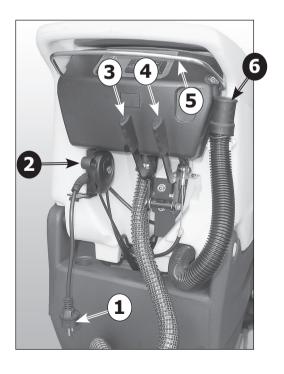
Technical data plate

	ITALIANO	PAGINA	10
EN	ENGLISH	PAGE	27
FR	FRANÇAIS	PAGE	43
DE	DEUTSCH	SEITE	60
ES	ESPAÑOL	PAGINA	77
RU	РУССКИЙ	СТРАНИЦА	94
PT	PORTUGUÊS	PÁGINA	113
AR	العربية	130 صفحة)-137
NL	NEDERLANDS	PAGE	138
PL	POLSKY	STR.	154
NO	NORWEGIAN	SIDE	169
DA	DANSK	SIDE	184
RO	ROMANIAN	PAG.	200
CS	CZECH	STR.	216
TR	TÜRK	SAYFA	232
BG	БЪЛГАРСКИ	СТР.	246
EL	ΕΛΛΗΝΙΚΑ	ΣΕΛΙΔΑ	264

E - (AC 230V)

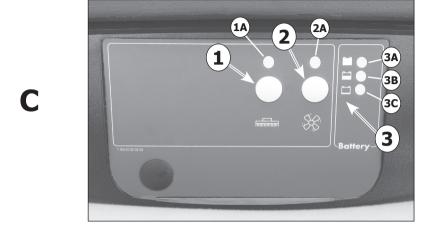


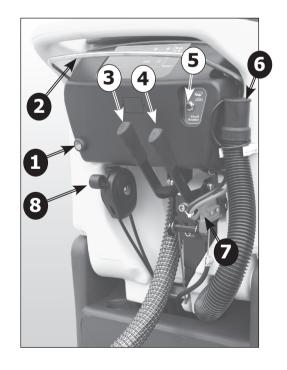
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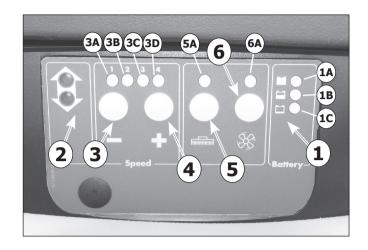
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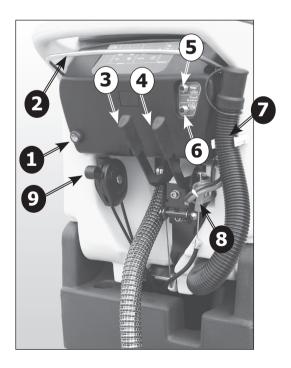


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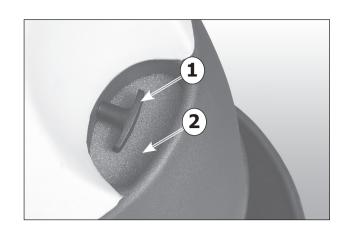


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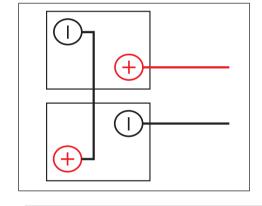


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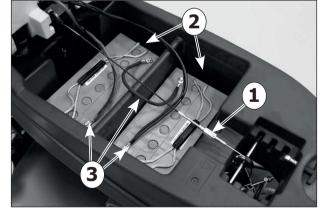


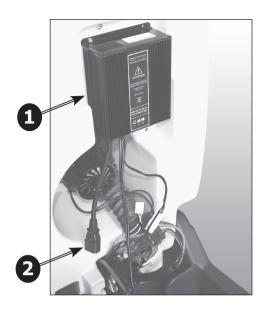


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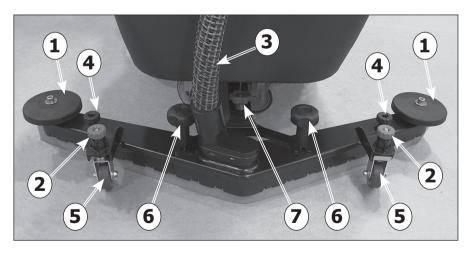
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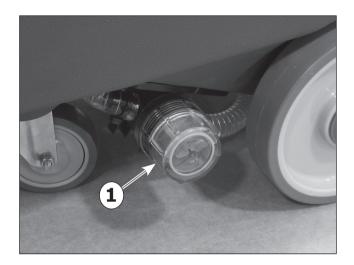


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EN TABLE OF CONTENTS

SURFACES

1.	GENERAL INFORMATION	5.14.5.	POST-SCRUBBING OPERATIONS
1.1.	MANUAL PURPOSE	_	
1.2.	TERMINOLOGY AND SYMBOL LEGEND	6.	MAINTENANCE INFORMATION
1.3.	PRODUCT IDENTIFICATION	6.1.	TANKS
1.4.	SPECIFIC USE	6.2.	SUCTION HOSE
1.5.	TECHNICAL MODIFICATIONS	6.3.	SQUEEGEE
	TECHNICAL MODIFICATIONS	6.4.	ACCESSORIES
2.	SAFETY INFORMATION	6.5.	MACHINE BODY
2.1.	BASIC RECOMMENDATIONS	6.6.	BATTERIES
2.2.	NOISE AND VIBRATIONS	6.7.	THERMAL BREAKERS
_		6.8.	PERIODIC MAINTENANCE
3.	HANDLING INFORMATION	6.9.	RECOMMENDED SPARE PARTS
3.1.	PACKING LIFTING AND TRANSPORT		
3.2.	CHECKS UPON DELIVERY	7.	OPERATING CHECKS
3.3.	UNPACKING	7.1.	PROBLEM SOLVING GUIDE
3.4.	LIFTING AND TRANSPORT: MACHINE,	7.1.1.	THE MACHINE DOESN'T WORK
	BATTERY AND BATTERY CHARGER	7.1.2.	THE MACHINE DOESN'T MOVE
_		7.1.3.	THE BRUSH DON'T ROTATE
4.	TECHNICAL INFORMATION	7.1.4.	NOT ENOUGH OR TOO MUCH DETERGENT
4.1.	INSTALLATION INFORMATION	7.1.5.	NO SUCTION
4.1.1.	BATTERY	7.1.6.	INSUFFICIENT SUCTION
4.1.2.	BATTERY PREPARATION	7.1.7.	THE BRUSH MOTOR OR THE SUCTION
4.1.3.	BATTERY INSTALLATION	7.1.7.	MOTOR DOESN'T STOP
4.1.4.	BATTERY CONNECTION	7.1.8.	THE SQUEEGEE DOESN'T CLEAN OR DRY
4.1.5.	CIRCUIT BOARD SETTINGS CONFIGURATION	7.1.0.	EFFICIENTLY
4.2.	BATTERY CHARGER CONFIGURATION	7.1.9.	THE BATTERY CHARGER DOESN'T WORK
_		7.1.9. 7.1.10.	THE BATTERIES DO NOT CHARGE OR DO
5.	OPERATING INFORMATION	7.1.10.	
5.1.	MACHINE PREPARATION		NOT HOLD A CHARGE
5.2.	STRUCTURE AND FUNCTIONS	8.	CONDITIONS OF WARRANTY
5.3.	BATTERY CHARGING	8.1.	SCRAPPING OF THE MACHINE
5.4.	SQUEEGEE ASSEMBLY	8.2.	DISPOSAL (WEEE)
5.5.	SQUEEGEE DISASSEMBLY	0.2.	DIST OSAL (WELL)
5.6.	SQUEEGEE BLADES DISASSEMBLY /		
	ASSEMBLY		
5.7.	SQUEEGEE ADJUSTMENT		
5.8.	SPLASH GUARD ASSEMBLY/ DISASSEMBLY		
5.9.	BRUSH ASSEMBLY / DISASSEMBLY		
5.10.	FILLING AND DRAINING THE SOLUTION		
	TANK		
5.11.	DRAINING THE RECOVERY TANK		
5.12.	SPECIFIC INSTRUCTIONS FOR THE USE OF		
3.12.	MODEL AC 230V		
5.13.	DRIVING THE MACHINE		
5.13. 5.14.	WORK METHOD		
5.14. 5.14.1.			
5.14.1.	BATTERY CHARGE LEVEL CONTROLS		
5.14.3.	DIRECT SCRUBBING OR FOR SLIGHTLY		
	DIRTY SURFACES		
5.14.4.	INDIRECT SCRUBBING OR FOR VERY DIRTY		

1. GENERAL INFORMATION 1.1. MANUAL PURPOSE

To make it easier to read about and look up various subjects, refer to the table of contents at the beginning of the section in your language.

This manual has been prepared by the manufacturer and is an integral part of the product. As such, it must be kept in a safe place for the machine's entire service life until demolition.

The customer must ensure that machine operators have read or are familiar with the contents of this manual so that they strictly follow the instructions described herein.

Constant compliance with the instructions provided in this manual is the only way to guarantee the best results in terms of safety, performance, efficiency and service life of the product you now own. Non-compliance with these rules may cause injuries to people and damage to the machine, the scrubbed surface and the environment: in no case can such injuries or damage be attributed to the manufacturer.

This manual refers in detail to the machine and provides instructions and descriptions only about our batteries and battery chargers (optional).

The batteries and the battery charger are basic complementary machine parts and will affect its operation in terms of running time and performances. Only the correct combination of the two accessories (batteries and battery charger) will ensure the highest possible performances and avoid wasting lots of money. For more detailed information refer to the special battery and battery charger manuals.

Our recommended battery chargers and batteries (optional) ensure the best combination with the machine and offer outstanding versatility (battery charger) as well as the category's highest quality and performance standards.

1.2. TERMINOLOGY AND SYMBOL LEGEND

For the sake of clarity and to efficiently highlight the various aspects of the instructions provided, terms and symbols were used that are defined and illustrated here below:

- Machine. This definition replaces the commercial name to which this manual refers.
- Operator, 'operator' means the person or persons given the task of installing, operating, adjusting, maintaining, cleaning, repairing or transporting machinery.
- **Technician.** A technician is considered a person who has the experience, technical education, legislative and regulatory knowledge that allows him to carry out any type of required work, and the ability to recognise and to avoid possible risks during machine installation, and maintenance.
- INDICATION SYMBOL. Particularly important information to avoid machine malfunctions.

- △ ATTENTION SYMBOL. Very important information to avoid serious damage to the machine and to the environment in which it operates.
- DANGER SYMBOL. Vital information to avoid serious (or extreme) consequences affecting the health of persons and causing damage to the product and the environment in which it operates.

Total weight (ready to operate)

► Max. working range incline 2% (Max. transporting range incline 10%)

Rated power brush drive



Rated power suction turbine

PRODUCT IDENTIFICATION 1.3.

The nameplate located under the dashboard contains the information:

SPECIFIC USE 1.4.

This appliance is suited for the commercial use, e.g. in hotels, schools, hospitals, factories, shops, offices, and rental companies.

This machine is a floor scrubber-drier: it must be used to scrub and to vacuum liquids of flat, rigid, horizontal, smooth or moderately rough and uniform floors that are free from obstacles in both civic and industrial environments. Any other use is prohibited.

Please refer very carefully to the safety information reported in this manual.

The scrubber-drier distributes a quantity of a water and detergent solution (adjustable) on the surface to be cleaned, while the brushes remove any dirt on the ground. The machine's suction system, using a ground squeegee, perfectly dries the liquids and the dirt just removed from the front brushes in a single pass.

By efficiently combining a cleaning detergent with various types of brushes (or abrasive disks), the machine can adapt to all the various combinations of floors and dirt.

1.5. TECHNICAL MODIFICATIONS

The manufacturer reserves the right to make technical modifications to the product, without prior notice, in order to make the necessary technical upgrades or improvements. For this reason, some details of your machine may be different from the information in the sales catalogues or from the illustrations presented in this booklet. However, this will not reduce safety or invalidate the information supplied to this regard.

2. SAFETY INFORMATION

2.1. BASIC RECOMMENDATIONS

 Carefully read the "instruction manual" before starting, using, performing unscheduled or routine maintenance or any other work on the machine.

⚠ Rigorously comply with all the instructions provided in this manual and in those for the batteries and battery chargers (with particular attention to warnings and danger notices).

The manufacturer will not be held responsible for injuries to persons or damage to property due to non-compliance with the aforementioned instructions.

△ This machine must be powered only with the safety extra-low voltage indicated on the technical data plate.

Before using the machine, make sure that each part is in the correct position.

∆The machine may only be used by personnel who have been trained in its use, who have demonstrated their ability and who have been expressly instructed to do so. To prevent unauthorised use, keep the machine at a standstill in a place not accessible to outsiders and remove the key from the control panel.

△The appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety.

Children should be supervised to ensure that they do not play with the appliance.

△ Do not operate this machine for any other purpose except for the use for which it was specifically designed. Evaluate the type of building where it will be utilized and rigorously comply with the current safety regulations and conditions.

☑ Do not use the machine in places without adequate lighting, in explosive environments, when harmful dirt is present (dust, gas, etc.), on roads or public passageways and in outdoor environments in general.

 \triangle The machine operating temperature range is +4°C to + 35°C; when not being used, store the machine in a dry and non-corrosive environment within a temperature range of between + 10°C and + 50°C.

When using the machine under any condition the humidity must range between 30% and 95%.

Never use or vacuum liquids, gases, dry dust, acids and solvents (e.g. paint thinners, acetone, etc.), even if diluted, inflammables or explosives (e.g. petrol, fuel oil, etc.); never vacuum flaming or incandescent objects.

△ Do not use the machine on slopes or ramps steeper than 2%

For small slopes, do not use the machine sideways, always handle it with caution and never move backwards. When transporting (10% max) the machine on steeper ramps or slopes, be very careful to avoid tipping and/or uncontrolled accelerations.

The machine can be handled on ramps and/or steps

only with the brush head and squeegee lifted off the ground.

A Never park the machine on a slope.

IS Never leave the machine unattended with the key in and connected; it may be left only after having disconnected it and taken the key out and guaranteeing against accidental movements and, if necessary, disconnecting it from the electrical power supply.

Make sure there are no other persons, and children in particular, in the area where the machine is being used.

Do not use the machine to transport persons/ things or to tow objects. Do not tow the machine.

© Do not use the machine as a support surface for any weight for any reason.

Do not block the ventilation and heat dispersion openings.

△ Do not remove, modify or by-pass the safety devices. △ Always use individual safety devices to ensure operator safety: aprons or safety overalls, non-slip and waterproof shoes, rubber gloves, goggles and earphones, and masks to protect the respiratory tract. Before starting to work, remove necklaces, watches, ties and other objects that may cause serious injuries. △ Do not insert hands between moving parts.

Do not use detergents that differ from those required and follow the instructions indicated on the relative safety sheets. Detergents should be stored in a place that is inaccessible to children. In case of contact with the eyes, rinse immediately with copious amounts of water and, if swallowed, immediately consult a physician.

Make sure that the battery charger power sockets are connected to an efficient earthing system and that they are protected by magneto thermal and differential circuit breakers.

△ Follow the battery manufacturer's instructions and comply with legal provisions. The batteries should always be clean and dry to avoid surface leakage currents. Protect the batteries against impurities, such as metallic dust.

All If the machine is equipped with gel batteries it is essential to make sure the run-down indicator (located on the panel) is adjusted correctly. Contact your dealer or refer to the specific paragraph.

② Do not place tools on top of the batteries: they may cause a short-circuit or an explosion.

When using battery acid, rigorously respect the relative safety instructions.

Never spray water on the machine to clean it.

Recovered fluids contain detergents, disinfectants, water, as well as organic and inorganic material collected during work operations: dispose of them in accordance with current legal provisions.

 Δ If the machine malfunctions and/or operates inefficiently, turn it off immediately (disconnecting it from the electric power supply or from the batteries) and do not tamper with it.

Contact one of the manufacturer's technical service centres.

All maintenance or accessory replacement operations must be carried out in environments with adequate lighting and only after having disconnected the machine from the electric power supply by detaching the battery connector.

All work on the electrical system and all maintenance and repair operations (especially those not explicitly described in this manual) should be carried out only by authorized service centers or by specialized technical personnel who are experts in the sector and in the pertinent safety regulations.

The machine owner can only use original accessories and spare parts supplied exclusively by the manufacturer since such parts are the only ones that guarantee that the equipment will operate safely without any problems. Do not use parts disassembled from other machines or other kits as spare parts.

ESS Before each use, check the machine and, in particular, check that the battery charging cable and the connector are in good condition and safe for use. If they are not in perfect condition, do not use the machine for any reason until an authorized specialist repairs the defective parts.

If foam or liquid is noted, immediately turn off the suction motor.

■ Do not use the machine on textile flooring, such as rugs, carpeting, etc.

Wax, foaming detergents or dispersions along the hoses may cause serious problems for the machine or clog the hoses.

2.2. NOISE AND VIBRATIONS

For informations relating to noise and vibration data see last page.

3. HANDLING INFORMATION 3.1. PACKING LIFTING AND TRANSPORT

△ During all lifting or transport operations, make sure that the packed machine is securely anchored to prevent it from tipping over or falling accidentally. Transport vehicle loading and unloading operations must be carried out with adequate lighting.

The packed machine must be handled using adequate devices, making sure not to damage/strike any part of the packing, not to tip it over and to be very careful when placing it on the ground.

All these instructions also apply to the batteries and the battery charger.

3.2. CHECKS UPON DELIVERY

when the goods are delivered (machine, battery or battery charger) by the transporter, carefully check the condition of the packing and its contents. If the contents have been damaged, notify the transporter

and reserve the right, in writing (select the word "reserve" on the document), to submit a claim for compensation before accepting the goods.

3.3. UNPACKING

⚠ Wear safety clothing and use adequate tools to limit the risks of accidents.

Carry out the following steps if the machine is packed with a cardboard housing:

- Use scissors or clippers to cut and eliminate the plastic straps.
- Slip off the cardboard housing from the top of the packed machine.
- Remove the envelops inside and check their contents (use and maintenance manual, battery charger connector)
- Remove the metallic brackets or plastic straps that secure the machine to the pallet.
- Release the brushes and the squeegee from the packing.
- Take the machine off the pallet (pushing it backward) by using an inclined surface that is solidly attached to the floor and to the pallet.

If the machine is packed in a wooden crate:

- Detach all the wooden sides from the pallet, starting from the top one.
- Remove the protective film wrapped around the machine.
- Remove the metallic brackets or plastic straps that secure the machine to the pallet.
- Release the brushes and the squeegee from the packing.
- Take the machine off the pallet (pushing it backward) by using an inclined surface that is solidly attached to the floor and to the pallet.

Take the same precautions and follow the same instructions to remove the optional battery charger from the packing (holding the special handles to extract it from the top of the packing) and the optional battery.

After moving the machine away from all the packing, start mounting the accessories and the batteries as per the instructions provided in the specific section. Keep all the pieces of the packing since they might be useful in the future to protect the machine and the accessories during transport to another location or to authorized service centers. If not, the packing can be disposed in accordance with current disposal laws.

3.4. LIFTING AND TRANSPORT: MACHINE, BATTERY AND BATTERY CHARGER

 \triangle Never use a forklift truck to lift the machine. There are no places on the frame that can be used to lift the machine directly.

Before preparing the packing and transporting the machine:

- Empty the recovery tank and the detergent solution tank.
- Disassemble the squeegee and the brushes or scrapers.
- Disconnect and remove the batteries.

Place the machine on the original pallet (or an equivalent one that can bear the weight and is big enough for the machine's overall dimensions) using an inclined surface.

Solidly anchor the machine and the squeegee to the pallet using metallic brackets or other elements that can bear the weight of the parts.

Lift the pallet with the machine and load it on the transport vehicle.

Secure the machine and the pallet using ropes connected to the transport vehicle.

As an alternative, when using private transport vehicles, use inclined ramps to push the machine without the pallet, making sure to protect all parts and the machine itself against violent impacts, humidity, vibrations and accidental movements during transport. The battery boxes have holes where tools can be hooked for handling.

To lift or insert the battery (into the machine compartment), use only suitable personnel and equipment (cables, eyehooks, etc.) for the operation and to bear the weight of the loads involved. When transporting, take the same precautions and follow the same instructions provided for the machine together with those in the special manufacturer's manual.

The battery charger can be transported on its supports, both vertically and horizontally. Take the same precautions and follow the same instructions provided for the machine together with those in the special manufacturer's manual.

4. TECHNICAL INFORMATION 4.1. INSTALLATION INFORMATION 4.1.1. **BATTFRY**

Regardless of the type of construction, battery performances are indicated with the term capacity, which always refers to a discharge period. Another important value is the number of possible discharges. The capacity is expressed in amps per hour (Ah), while the discharge period is generally indicated as 20 hours (C20) or 20h, or not expressly indicated) or 5 hours (C5 or 5h). The discharge/charge cycles indicate the number of times that the battery can hold a charge under the best conditions, i.e. they indicate the useful battery service life complying with all the necessary measures. Therefore, the capacity of a battery varies depending on how fast it uses energy (current). That's why there's such a variation in the capacity values expressed as C5 or C20. These factors must be taken into account when comparing products available on the market with our own.

This machine can be equipped with two types of batteries that differ in terms of their construction and features. - Pb-Acid battery with tubular armored modules: the electrolyte level in each element must be periodically checked!

⚠ If one element is no longer covered by the acid solution it will oxidize in 24 hours, thus permanently affecting that element's performance.

- Refer to the battery manual to avoid physical damage and economic loss.
- Gel module battery: this type of battery is maintenance free and does not require special environments for recharging (since it does not emit any harmful gases); therefore, it is highly recommended.

 Δ It should not be taken for granted that batteries and battery chargers with the same technical features as those we offer will produce the same results. Only perfect compatibility between these elements (Pb-Acid batteries, gel batteries and battery chargers) will safeguard the performances, the service life, the safety and the economic value invested.

4.1.2. BATTERY PREPARATION

 Δ The technical features of the batteries used must match those indicated in the technical features section. Using different batteries may cause serious damage to the machine or may require them to be charged more frequently.

During installation or when performing any type of battery maintenance, the operator must be equipped with adequate safety accessories to prevent accidents. Work far from open flames, do not short-circuit the battery poles, do not generate sparks and do not smoke.

The batteries are normally supplied full of acid solution (for the Pb-Acid type) and ready for use. In any case, follow the steps indicated in the manual supplied with the battery and carefully follow the instructions regarding safety and operating procedures.

Refer to the relevant manufacturer's manual provided.

4.1.3. BATTERY INSTALLATION

To insert batteries in the battery compartment (Photo I - 2) it is necessary to lower the brush plate to the floor. To access to the battery compartment, pull the opening lever (Photo H - 1) and lift the recovery tank (Photo N - 3).

Detach the spring clip (Photo I - 1) placed on the lifting cable of the brush plate.

Place the batteries in the battery compartment (Photo I - 2) checking that they are in perfect conditions.

4.1.4. BATTERY CONNECTION

⚠ These operations must be carried out by specialized personnel.

Install and charge the batteries in a dry ventilated place, far from sources of heat and corrosive substances. Make sure that the voltage between the batteries and the battery charger corresponds. Protect the circuit with a delay switch or a fuse with a higher charge than the maximum absorption of the battery charger. Comply with the polarity of the battery plug. Disconnect the Anderson connector of the battery wiring from the Anderson connector of the machine wiring (Photo D - 7) (Photo F - 8). Always hold the connectors with the hands and never pull on the cables. Photo H show connection diagram of the batteries for B - BT machines.

Attach the battery wiring to the battery, connecting the terminals only on the poles marked with the same symbol (red wiring "+", black wiring "-")!

A battery short-circuit may cause an explosion!

After checking that all the controls on the panel are in position "0" or at rest, connect the battery connector to the machine connector.

 Δ Close the battery compartment making sure not to crush any wires.

Photo I - 3 show the correct connection of the batteries for B - BT machines

4.1.5. CIRCUIT BOARD SETTINGS CONFIGURATION

The machine is equipped to GEL battery circuit board configured. If the operator whish to use e Pb-Acid battery, it is necessary to set the electronic circuit board as follows:

Model "B" (DC 24V)

 Δ TO ENTER THE BATTERY THRESHOLD CONFIGURATION MODE:

- 1) Press simultaneously the push buttons "BRUSH MOTOR SWITCH" (Photo C 1) and "SUCTION MOTOR SWITCH" (Photo C 2) within 2 seconds after switching on the machine with the key switch (Photo D 1). The three LED of the battery power test (Photo C 3A, 3B, 3C) will be ON.
- 2) Press "SUCTION MOTOR SWITCH" key within 5 seconds from the previous action; you have now entered in the configuration mode: the green and yellow LED of the battery power test (Photo C 3A, 3B) will be ON.

△ CONFIGURATION SETTINGS ARE DISPLAYED ON THE BRUSH LED (Photo C - 1A) and on the SUCTION LED (Photo C - 2A):

Gel:

BRUSH LED (Photo C - 1A) on. SUCTION LED (Photo C - 2A) off.

Pb-Acid:

BRUSH LED (Photo C - 1A) off. SUCTION LED (Photo C - 2A) off.

Li-Lithium:

BRUSH LED (Photo C - 1A) off.

SUCTION LED (Photo C - 2A) on.

△ TO MODIFY CONFIGURATION SETTINGS: Press the "BRUSH MOTOR SWITCH" (Photo C - 1)

△ TO SAVE THE SETTINGS AND EXIT THE MODE: Press the "SUCTION MOTOR SWITCH" (Photo C - 2)

Once the settings have been set, we have different battery discharge levels with differentiated intervention on the machine functions as specified in the following table:

Battery discharge indicator and functions - Model "B" (DC 24V)						
Volts Battery Type		Battery power test indicator LED	Brush opera- tion indica- tor LED			
Pb- Acid	GEL	Li	Signaling	Signaling	Action	
24,0	24,0	>25,4	Green LED ON	LED ON	All working	
21,5	22,5	>23,5	Yellow LED ON	LED ON	All working	
20,5	21,5	>22,6	Red LED ON	LED FLASHING	Brush motor is not wor- king	
20,0	21,0	<22,6	Red LED FLASHING	LED FLASHING	Brush and suction mo- tors are not working	

Model "BT" (DC 24V with traction)

 $\ensuremath{\Delta}$ TO Enter the Battery Threshold Configuration Mode:

1) Press simultaneously the push buttons "REDUCE SPEED" (Photo E - 3) and "SUCTION MOTOR SWITCH" (Photo E - 6) within 2 seconds after switching on the machine with the key switch (Photo F - 1). The second LED of the speed indicator (Photo E - 3B) will be ON. 2) Press "INCREASE SPEED" (Photo E - 4)" key within 5 seconds from the previous action; you have now entered in the configuration mode.

△ THE CONFIGURATION SETTINGS ARE VISIBLE ON THE SPEED INDICATOR LED:

- 1) The first two LEDs (Photo E 3A, 3B) indicate the type of setting of the indicator intervention threshold an both must be ON:
- 2) The third and fourth LEDs (Photo E 3C, 3D) indicate the battery type: for the PB-Acid battery only the third LED (Photo E 3C) should be ON, while for the GEL battery both should be ON (Photo E 3C, 3D)

3) To select Li batteries, press the "BRUSH ON" button (Photo E - 5) for 2 seconds together with the "SUCTION ON" button (Photo E - 6) until the third LED (Photo E - 3C) and the fourth LED (Photo E - 3D) switch off.

\triangle TO MODIFY CONFIGURATION SETTINGS:

1) The "INCREASE SPEED" (Photo E - 4)" and "REDUCE SPEED" (Photo E - 3) keys are used to set the indicator's intervention threshold in such a way that the first two speed indicators LEDs (Photo E - 3A, 3B) turn ON; 2) The "BRUSH MOTOR SWITCH" (Photo E - 5) is used to set the PB-Acid battery type while the "SUCTION MOTOR SWITCH" (Photo E - 6) is used to set the GEL battery type

△ TO SAVE THE SETTINGS AND EXIT THE MODE: Press the "REDUCE SPEED" (Photo E - 3) switch and the "SUCTION MOTOR SWITCH" (Photo E - 6) simultaneously.

Once the settings have been set, we have different battery discharge levels with differentiated intervention on the machine functions as specified in the following table:

Battery discharge indicator and functions - MODEL "BT" (DC 24V with traction)						
Volts Battery Type		Battery power test indicator LED	Brush operation indicator LED			
Pb-Acid	GEL	Li	Signaling	Signaling	Action	
24,0	24,0	>25,4	Green LED ON	LED ON	All working	
21,5	22,5	>23,5	Yellow LED ON	LED ON	All working	
20,5	21,5	>22,6	Red LED ON	LED FLASHING	Brush motor is not work- ing	
20,0	21,0	<22,6	Red LED FLASHING	LED FLASHING	Brush and suction mo- tors are not working	

If you do not complete the configuration procedure, the settings remain as they were originally.

\(\text{\text{\text{DEF}}} \) We recommend to call the assistance centre or a technic remains the configuration of the c

nician if you have problems with the settings given. Do not open or tamper the electronic board.

4.2. BATTERY CHARGER CONFIGURATION

The machine is equipped with a battery charger configurated for GEL batteries

To change the battery charger settings read the manual provided by the battery charger manufacturer.

If the machine is supplied with a battery and a

charger, the setting of the machine and the charger is carried out by the manufacturer.

In the event of changes to the equipment, i.e. the type of battery and charger, we always recommend that you contact your authorised service centre both for the machine setting and the setting of the charger's charging curve.

As a general rule, the following criteria apply:

For Pb-acid and GEL batteries:

charging current of approx. 10-12% of the capacity in Ah-C20

For lithium batteries:

current of approx. 40% of the capacity in Ah Failure to comply may result in serious damage to the battery and warranty invalidation.

5. OPERATING INFORMATION 5.1. MACHINE PREPARATION

△ Before starting to work, wear non-slip shoes, gloves and any other personal protection device indicated by the supplier of the detergent used or considered necessary based on the operating environment.
→ Do the following before starting to work. Refer to the relative sections for a detailed description of these steps: Heck the battery charge level and charge, if necessary. Mount the brushes or scraper disks (with the abrasive disks) that are suitable for the surface and work involved. Mount the squeegee, check that it is solidly attached and connected to the suction hose and that the drying blades are not too worn.

Make sure that the recovery tank is empty. If not, empty it completely.

Check and completely close the detergent solution release control.

Fill the detergent solution tank with a mix of clean water and non-foaming detergent in an adequate concentration through the anterior hole. Leave 2 cm between the mouth of the plug and the level of the liquid.

To avoid risks, become familiar with the machine movements, carrying out test runs on a large surface without obstacles.

To obtain the best results in terms of cleaning and equipment service life, you should do the following simple but important operations:

- Identify the work area, moving all possible obstacles out of the way; if the surface is very extensive, work in contiguous and parallel rectangular areas.

- Choose a straight work trajectory and begin working from the farthest area to avoid passing over areas that have already been cleaned.

5.2. STRUCTURE AND FUNCTIONS

PHOTO A MODEL E

- General on/off switch
- 2 Brush motor switch

PHOTO B MODEL E

- Power supply cable
- 2 Water outlet adjusting lever
- 3 Brush plate lift/lower lever
- 4 Squeegee lift/lower lever
- 5 Brush operation lever
- 6 Recovery tank drain hose

PHOTO C MODEL B - (DC 24V)

- 1 Brush motor switch
- 1A Brush motor operation led
- 2 Suction motor switch
- 2A Suction motor operation led
- 3 Battery power test
- 3A Green led full battery charge
- 3B Yellow led 50% battery charge
- 3C Red led battery discharged

PHOTO D MODEL B - (DC 24V)

- 1 General on / off kev switch
- 2 Brush operation lever
- 3 Brush plate lift/lower lever
- 4 Squeegee lift/lower lever
- 5 Brush motor thermal breaker
- 6 Recovery tank drain hose
- 7 Battery connector
- 8 Water outlet adjusting lever

PHOTO E MODEL BT/T - (DC 24V WITH TRACTION)

- 1 Battery power test
- 1A Green led full battery charge
- 1B Yellow led 50% battery charge
- 1C Red led battery discharged
- 2 Forward/reverse indicator
- 3 Reduce speed switch
- 3A Traction speed 1
- 3B Traction speed 2
- 3C Traction speed3
- 3D Traction speed 4
- 4 Increase speed switch
- 5 Brush motor switch
- 5A Brush motor operation led
- 6 Suction motor switch
- 6A Suction motor operation led

PHOTO F MODEL BT/T - (DC 24V WITH TRACTION)

- 1 General on / off key switch
- 2 Forward traction operation lever
- 3 Brush plate lift/lower lever
- 4 Squeegee lift/lower lever
- 5 Brush motor thermal breaker
- 6 Traction motor thermal breaker
- 7 Recovery tank drain hose
- 8 Battery connector

9 Water outlet adjusting lever

PHOTO G MODEL B - BT/T - (DC 24V WITHOUT AND WITH TRACTION)

- 1 Battery compartment opening lever
- 2 Solution tank filling opening

PHOTO H MODEL B - BT/T - (DC 24V without and with traction)

Battery connection diagram

PHOTO I MODEL B - BT/T - (DC 24V without and with traction)

- 1 Opening clip spring
- 2 Battery compartment with 12v Batteries
- 3 Battery connection wiring

PHOTO L MODEL B - BT/T - (DC 24V without and with traction)

- 1 Built-on battery charger
- 2 Battery charger power supply cable

PHOTO MMODEL E - B - BT/T

- 1 Squeegee bumper wheel
- 2 Squeegee pression adjusting knob
- 3 Suction hose
- 4 Squeegee blades replacement knob
- 5 Squeegee wheel
- 6 Squeegee fixing knob
- 7 Squeegee inclination adjusting knob

PHOTO N MODEL E - B - BT/T

- 1 Hood of suction filter compartment
- 2 Solution tank filling opening
- 3 Recovery tank
- 4 Solution tank

PHOTO O MODEL E - B - BT/T

- 1 Floating device
- 2 Suction filter
- 3 Recovery tank inspection

PHOTO P MODEL E - B - BT/T

1 Solution water filter

5.3. BATTERY CHARGING

Connect the patch cord to the power cable of the battery charger (Photo L - 2) and to the mains power.

On switching on the battery charger will check the

battery voltage and decide whether to start the charging process. If the battery is not connected to the battery charger, the yellow LED will flash. If the result of the test is positive after 1 second the charging

of the battery can start, with the red LED on. During the charging process, remember to keep the upper tank elevated for proper ventilation.

The progress of the charging process is shown by

three LED's: red, yellow and green, as in the whole range of the battery chargers.

The green LED shows the end of the charging or the last phase in case of deep charging process; in the former case, the relay is opened to disconnect galvanically the battery from the battery charger.

△ For further information refer to the use and safety manual of the battery charger provided by the manufacturer.

If the machine is equipped with Pb-Acid batteries, charge only in a well-ventilated area, lift the superior cover and open the battery plugs.

Follow the steps indicated in the battery manufacturer's operating and safety manual (see the battery maintenance section).

If the machine is equipped with GEL batteries (maintenance free), follow the instructions indicated here below. If the machine is used regularly:

Always keep the batteries connected to the battery charger when the machine is not being used.

If the machine is not used for extended time periods: Charge the battery during the night after the last work period, and then disconnect the battery from the battery charger.

Charge the battery during the night before using the machine again.

Intermediate or incomplete charging while working should be avoided.

If the machine is equipped with Pb-Acid batteries, use a hydrometer to check the element liquid intensity on a regular basis: if one or more elements are discharged and the others fully charged, the battery has been damaged and should be replaced or repaired (refer to the battery service manual).

Close the element plugs and lower the superior cover.

5.4. SQUEEGEE ASSEMBLY

Slightly screw the two knobs (Photo M - 6) into the squeegee body and insert the squeegee into the slots situated on the squeegee support.

Screw the two knobs (Photo M - 6) in order to secure the squeegee to the support.

Firmly insert the suction hose (Photo M - 3) into the pipe in the squeegee body.

5.5. SQUEEGEE DISASSEMBLY

Disconnect the suction hose from the squeegee body. Unscrew the two knobs (Photo M - 6) that secure the squeegee to its support and pull the squeegee to free it.

5.6. SQUEEGEE BLADES DISASSEMBLY / ASSEMBLY

Disassemble the squeegee from its support (see 6.5) Unscrew the knobs (Photo M - 4, Photo M - 6) placed on the squeegee body and apply some pressure on their bolts in order to push out the plastic support of the squeegee blades from the squeegee body.

Tear off the rubber blades from the plastic support. Assemble the new blades on the plastic support by the means of the plastic pins that have to be fixed in the holes placed the blades.

Push the plastic support of the squeegee blades into the squeegee body and screw the knobs (Photo M - 4, Photo M - 6) to secure it to the squeegee body. Reassemble the squeegee to its support (see 6.4).

5.7. SQUEEGEE ADJUSTMENT

The knob screw on the squeegee support (Photo M - 7) adjusts the squeegee's inclination with respect to the floor. The two red knobs on the sides, connected to the rear wheels of the squeegee (Photo M - 2) are to adjust the pressure of the squeegee to the floor. When the squeegee is perfectly adjusted, the rear squeegee blade, sliding as it moves, bends in all points forming an angle of 45° with the floor.

As the machine operates (advances), the knobs (Photo M-2, Photo M-7) can be used to adjust the inclination and pressure of the squeegee blades on the floor. Squeegee drying must be uniform along the entire drying line: damp patches mean that drying is insufficient; turn the adjustment knobs to optimize drying.

5.8. SPLASH GUARD ASSEMBLY/ DISASSEMBLY

The splash guard is attached to the brush plate by interlocking on the plastic cover.

To remove the splash guard is sufficient to pull it down until it detaches from the plastic cover.

To replace the splash guard, push it into the bottom edge of the plastic cover from one end and continue pushing up to the other end.

5.9. BRUSH ASSEMBLY / DISASSEMBLY

△ Never use the machine if the brush or the pad holder with abrasive pad is not perfectly installed.

Assembly:

Make sure that the brush plate is raised; otherwise lift it by following the instructions provided in the specific section.

Make sure that the ignition key on the control panel is in OFF position.

Place the brush under the plate, taking care that the coupling flange on the brush is under the metal coupling of the machine.

Lower the brush plate and start the brush rotation operating the brush motor switch and the brush operation lever; the brush will couple automatically.

To assemble the pad holder follow the same procedure. △ Do not allow the length of the rows of brushes to become lower than 1 cm. △ Do not allow the thickness of the abrasive disks to become less than 1 cm.

Working with excessively worn brushes or excessively thin abrasive disks may damage the machine and the floor. Regularly check the wear on these parts before starting to work.

Disassembly or replacement:

Make sure that the brush plate is raised; otherwise lift it by following the instructions provided in the specific section.

Make sure that the ignition key on the control panel is in position OFF position.

While holding the brush with the hands under the plate, turn it in the rotation direction while lowering to release it from the metal coupling on the machine. To disassemble the pad holder follow the same procedure.

5.10. FILLING AND DRAINING THE SOLUTION TANK

\triangle The temperature of the water or the detergent should never exceed 50°C.

Always empty the recovery tank (Photo N - 4) before filling the solution tank (Photo N - 3).

To fill the tank:

- Pour into the tank the required quantity of the chemical product, considering the percentage indicated by the supplier, with reference to the full tank capacity listed on the product sheet.

 \triangle Use only those products suitable for the floor and the dirt to be removed.

- Pour water in the filling opening placed in the front of the machine (Photo H - 2, Photo N - 2).

Leave 2 cm between the filling opening and the liquid level. Do not fill beyond this point!

The machine was designed to be used with non-foaming and biodegradable detergents made specifically for scrubber-driers. The use of other chemical products (such as sodium hypochlorite, oxidizers, solvents or hydrocarbons) may damage or destroy the machine.

- Follow the safety regulations specified in the relative section and indicated on the detergent container.
- Contact the machine manufacturer to obtain a complete list of available and suitable detergents.
- Do not leave the water hose unattended and insert it completely into the tank: the hose might move and get sensitive parts of the machine wet.

Close the tank with its foam plug.

To drain the tank:

- Unscrew and remove the transparent cap of filter / regulator of the cleaning solution placed in the bottom of the tank (Photo Q - 1) and wait for the com- - Before executing any type of operation on the ma-

plete emptying.

- After draining, replace and tighten the cap.

5.11. DRAINING THE RECOVERY TANK

The dirty water must be drained in accordance with national regulations.

The user is completely responsible for ensuring compliance with such rules.

After the detergent solution is finished, always empty the recovery tank (Photo N - 3) before filling it again. In general, the recovery tank can be emptied whenever required, and even during intermediate phases of the work cycle.

The recovery tank volume is higher than the detergent solution volume, therefore a potentially dangerous situation for the suction motor should never occur. In any case, a safety float (Photo O - 1) will stop the suction if the dirty liquid level is too high.

If water or foam starts leaking from under the tanks for any reason, immediately turn off the suction motor and empty the recovery tank.

To drain the tank:

Drive the machine to a suitable location to drain the dirty water and preferably near a toilet or a sewer drain (comply with the national regulations for waste water disposal).

Turn off the machine and remove the key from the panel. Detach the drain hose from the holder (Photo B - 6, D - 6, F - 7) and, keeping it high, unscrew the plug.

Lower the drain hose toward the selected drainage point. The emptying operation can be interrupted guickly and whenever required just by raising the drain hose. Check how much dirt is still in the tank and, if necessary, wash it inside through the inspection hole (Photo O - 3).

Fully tighten the drain hose with the screw plug and hang it on the support behind the machine. The drain hose plug must be airtight, otherwise the subsequent pressure loss will reduce drying efficiency.

5.12. SPECIFIC INSTRUCTIONS FOR THE USE OF **MODEL AC 230V**

The AC 230V model machine may be turned on only if the voltage indicated on the tag corresponds with the available voltage and that the electrical outlet is grounded (earthed).

Do not damage the feed cable: do not crush or pull on it. **ATTENTION** Make sure that the power cable does not come into contact with the rotary brushes.

ATTENTION !!! - The model AC 230V machine has parts, which are connected to the current; contact with these could cause grave injuries or even death.

chine always disconnect it from the electrical source.

- Never touch electric cables that are defective or worn.
- Before gaining access to the electrical system it is always necessary to disconnect the machine from the electrical source by removing the plug from the socket-outlet.
- In the case of defective, damaged, or cracked electric cables, replace immediately with authentic replacement parts.
- -The network of connections must be protected from water spray.
- The patch cord for the connection of the machine to the mains power must conforms to current safety rules.
- The electrical system to which the machine is connected must be equipped with a cutout box.
- It is absolutely forbidden to use the machine in proximity to swimming pools or stretches of water.

MERGENCY SITUATIONS

In case of emergency:

- Immediately disconnect the machine from the power mains.
- Immediately apply proper first-aid.

If an accident should occur the machine must not be put into operation until a technician authorized by the manufacturer has examined it.

5.13. DRIVING THE MACHINE

Model AC 230V

- Connect the power cable of the machine (Photo B 1) to the power mains using a patch cord.
- Switch ON the general ON-OFF switch (Photo A 1).
- Switch ON the brush motor switch (Photo A 2).

⚠ The brush will start the rotation only when the machine operator will operate the brush operation lever (Photo B - 4).

- Switch ON the suction motor switch (Photo A 3).
- Lower the squeegee unit by using the lift/lower lever (Photo B 3)
- Lower the brush plate unit by using the lift/lower lever (Photo B 2)
- Wash the floor moving forward slowly, pulling the brush operation lever (Photo B 4); releasing the lever the brush rotation will stop after few seconds.

⚠ Remember to lift the squeegee before driving reverse to avoid damaging it.

Model DC 24V

- Verify that the battery connector placed in the back of the machine (Photo D 7) is connected.
- Put the ignition key (Photo D 1) in and turn ON the machine.
- In the control panel, check the battery charge status (Photo C 3)

- Switch ON the brush motor switch (Photo C 1).
- \triangle The brush will start the rotation only when the machine operator will operate the brush operation lever (Photo D 2).
- Switch ON the suction motor switch (Photo C 2).
- Lower the squeegee unit by using the lift/lower lever (Photo D 4)
- Lower the brush plate unit by using the lift/lower lever (Photo D 3)
- Wash the floor moving forward slowly, pulling the brush operation lever (Photo D 2); releasing the lever the brush rotation will stop after few seconds.

△ Remember to lift the squeegee before driving reverse to avoid damaging it.

Model DC 24V with traction

- Verify that the battery connector placed in the back of the machine (Photo F 8) is connected.
- Put the ignition key (Photo F 1) in and turn ON the machine.
- In the control panel, check the battery charge status (Photo E 1) and, if sufficient, select the running speed wished (Photo E 3, E 4).
- Switch ON the brush motor switch (Photo E 5).

⚠ The brush will start the rotation only when the machine operator will operate the brush operation lever (Photo F - 2).

- Switch ON the suction motor switch (Photo E 6).
- Lower the squeegee unit by using the lift/lower lever (Photo F 4)
- Lower the brush plate unit by using the lift/lower lever (Photo F 3)
- Wash the floor moving forward by pulling the traction lever (Photo F 2) up or push the traction lever down to reverse traction; releasing the lever the traction will stop immediately and brush rotation will stop after few seconds.

△ Remember to lift the squeegee before driving reverse to avoid damaging it.

5.14. WORK METHOD

5.14.1. PREPARATION AND WARNINGS

Remove any loose solid residue from the surface to be treated (using suitable tools, such as vacuum cleaners, sweepers, etc.). It this is not done, the solid dirt might prevent the squeegee from operating correctly, reducing drying efficiency.

Only trained personnel can drive this machine.

5.14.2. BATTERY CHARGE LEVEL CONTROLS

The sequence of lights of the battery charge control (Photo C - 3, E - 1) progressively turns off until the battery is discharged . When the red light turns on (Photo C - 3C, E - 1C), turn off the brush motor, close the detergent solution outlet, finish drying the small residual moisture and go to the battery charging area

to charge the battery.

△ The batteries may be irreparably damaged if the residual charge level drops too low (see the battery operating manual). Do not force the battery discharge beyond the safety limits, turning the key off and on or in any other manner.

5.14.3. DIRECT SCRUBBING OR FOR SLIGHTLY DIRTY SURFACES

Scrubbing and drying in a single pass.

Prepare the machine as previously described and use it as described in paragraph 6.13.

Rever use the machine without the detergent solution: the floor might be damaged.

5.14.4. INDIRECT SCRUBBING OR FOR VERY DIRTY SURFACES

Scrubbing and drying in various passes.
Prepare the machine as previously described.

First set of operations:

Wash the floor as described in paragraph 6.13, without drying the floor

Allow the detergent solution to work on the dirty floor according to what is indicated in the information relative to the detergent used.

Second set of operations:

Proceed as explained in the previous "Direct Washing" paragraph (6.14.3) to also proceed with drying the floor. A Never use the machine without the detergent solution: the floor might be damaged.

5.14.5. POST-SCRUBBING OPERATIONS

Close the detergent solution outlet.

Lift the brush unit and turn off the brush motor.

After having completely dried any traces of water on the surface, wait a few seconds and then lift the squeegee and turn off the suction motor.

Move to a suitable location to drain the tanks; empty and clean the tanks (as described in 6.11).

Turn off the machine using the key and remove it from the control panel.

If necessary, charge the battery (see the relative section).

6. MAINTENANCE INFORMATION

☑ Turn the key, remove it from the control panel and disconnect the battery from the machine wiring. ☐ All work on the electrical system as well as all maintenance and repair operations (especially those not explicitly described in this manual) should be carried

tenance and repair operations (especially those not explicitly described in this manual) should be carried out only by authorized service centers or by specialized technical personnel who are experts in the sector and in the pertinent safety regulations.

Performing regular maintenance on the machine, and carefully following the manufacturer's instructions,

is the best guarantee for obtaining the best performances and extended machine service life.

6.1. TANKS

Drain the two tanks as described in the relative sections. Remove any solid dirt by filling and draining the tanks until all dirt has been eliminated: use a washing hose or similar tool to do this.

△ Water hotter than 50°, a high-pressure cleaner or excessively powerful sprays may damage the tanks and the machine.

Leave the plugs of the tanks open (only while the machine is not being used) so that they can dry and thus prevent the formation of foul odors.

6.2. SUCTION HOSE

Detach the suction hose from the squeegee (Photo M - 3). Now you can wash the hose and remove any obstructions.

Firmly insert the hose on the squeegee body.

6.3. SOUEEGEE

△ Do not handle the squeegee with bare hands: wear gloves and any safety clothing needed to carry out the operation.

Detach the squeegee from the machine and clean it under running water using a sponge or a brush.

Check the efficiency and the wear on the strips in contact with the floor. They are designed to scrape the film of detergent and water on the floor and to isolate that portion of the surface to enhance the vacuum of the suction motor: this ensures that the machine will dry very efficiently. Working constantly in this manner tends to round or to deteriorate the sharp edge of the strip, thus reducing drying efficiently. This is why the squeegee strips must be replaced.

To replace the worn blades, follow the instructions in the relative section. Turn the blades around to wear down the other sharp corners or to install new ones.

6.4. ACCESSORIES

Remove and clean the brushes or the scraper disks. To avoid damaging the floor and the machine, carefully check if foreign matter, such as metallic parts, screws, chips, cords or similar items, has become jammed.

Check that the brushes are flat as they work on the surface (check for any irregular wear on the brushes or on the abrasive disks). If necessary, adjust the slant of the action on the floor.

Use only the accessories recommended by the manufacturer: other products may reduce operating safety.

6.5. MACHINE BODY

Use a sponge or a soft cloth to clean the exterior of the machine and, if necessary, a soft brush to eliminate tough dirt. The machine's shockproof surface is rough to make it harder to see scratches caused during use. However, this does not make it easier to remove tough stains on the surface. It is prohibited to use steam machines, hoses with running water and high-pressure cleaners.

6.6. BATTERIES

PB-Acid batteries

Carry out maintenance operations in accordance with the manufacturer's instructions and with all the other instructions provided in this manual.

Exposing the element plates (not completely immersed in the acid solution) will lead to rapid oxidation and irreparably reduce the element's operating capacities.

An overflowing acid solution may corrode the machine. Use battery chargers recommended by the manufacturer and, in any case, those that are suitable for the type of battery to be charged.

Always charge batteries in well-ventilated rooms: there is an explosion risk!

Always charge batteries in well-ventilated rooms, there is a risk of explosion!

The use of gel or maintenance-free batteries is highly recommended.

GEL batteries

Carry out maintenance operations in accordance with the manufacturer's instructions and with all the other instructions provided in this manual.

Use only those battery chargers recommended by the manufacturer.

If the batteries are not used, in either case, for an extended period of time, disconnect them and restore the charge within the time limits specified for the type of battery used (generally and as a precaution, no more than 3 months for Pb-acid/GEL/AGM batteries, 6 months for Li-ion batteries).

The manufacturer accepts no liability for damage to batteries caused by failure to follow this procedure.

6.7. THERMAL BREAKERS

The machine is equipped with electric protection devices on the main operating components to avoid costly malfunctions.

Thermal breakers are installed to protect the drive motor wherever foreseen and the brush motor.

When one of these breakers trips automatically, the disabled function can be reactivated by fully depressing the button of the breaker.

When the thermal breakers trip, especially when the machine is used during the first few weeks, it might not be caused by actual machine malfunctions. How-

ever, a specialized technician should check the device if the relative breaker continues to trip.

6.8. PERIODIC MAINTENANCE

For all the operations described herein, refer to the instructions and detailed warnings in the relative sections.

6.9. RECOMMENDED SPARE PARTS

You'll always be able to use your machine as efficiently as possible by maintaining a stock of the most common consumable materials and by scheduling routine and extraordinary maintenance. Contact your dealer for a list of these spare parts.

7. OPERATING CHECKS 7.1. PROBLEM SOLVING GUIDE

These indications make it easier to understand the underlying causes of some problems based on specific type of inconvenience. For the type of corrective action to take please refer to the specific sections described below.

7.1.1. THE MACHINE DOESN'T WORK

- ☼ The key isn't inserted or correctly turned.
- © Insert and turn the key to position ON.
- ② The battery connector is disconnected or poorly attached to the main wiring connector.
- © Firmly connect the two connectors.
- The machine is charging.
- © Complete the charging operation.
- The batteries are discharged.
- © Charge the batteries.
- ☼ The main fuse has blown
- © Replace it
- ® The control board has overheated
- © Check the situations of use that may have caused the fault (high slope, etc.) wait 30 min. and try to avoid the same incorrect uses. If the problem persists, contact the authorised service centre.

7.1.2. THE MACHINE DOESN'T MOVE

- The floor slope is too high.
- © Push manually the machine to the upper floor level.
- ☼ The thermal protection of the traction motor is tripped.
- © Stop the machine and rest it for 5 minutes, the push the thermal breaker button.
- ⊕ The batteries are discharged.
- Charge the batteries.
- ⊗ The traction motor was not stopped when the machine was switched on.
- © Place the machine on a flat surface, switch off and on again with the key.

7.1.3. THE BRUSH DON'T ROTATE

- ⊕ The brush motor switch is not selected.
- © Press the button to activate the brushes.
- The brush motor thermal breaker tripped; the

	When needed	After every use	Weekly	Monthly
Remove and wash the squeegee		Х		
Drain the recovery tank	Х			
Drain, rinse with clean water or sanificate the recovery tank		Х		
Charge the batteries	Х	Х		
Check the acid level in the battery cells (if batteries are not maintenance-free)		Х		
Remove brushes and check for brush wear, foreign bodies and wrapped belts		Х		
Verify the machine general conditions.		Х		
Verify that suction hose and conduct are free from obstructions			Х	
Check the wear of the squeegee rubber blades			Х	
Open and clean the solution water filter			Х	
Clean the brush plate, squeegee support and squeegee				Х
Check the lifting/lowering of the brush plate.				Х
Check the lifting/lowering of the squeegee.				Х
Grease the moving parts.				Х
Check the control cable for the opening of the solution water tap.				Х
Verify the security devices (traction operation lever).				х
Descale water hoses.				Х

motor overheated.

- © Troubleshoot the cause (cords or similar items that impede movement, surface too rough, etc.) and press the reset breaker (the first from the top).
- The motor relay or the brush motor is broken.
- © Replace it.

7.1.4. NOT ENOUGH OR TOO MUCH DETERGENT

- (3) The detergent solution tank is empty.
- © Fill the detergent solution tank after having emptied the recovery tank.
- The brushes or the machine is stopped.
- © Activate the brushes and press the control lever.
- The flow adjustment lever is closed or almost closed.
- © Adjust/increase the detergent solution outlet flow as required.
- ⊗ The cleaning solution filter is clogged.
- © Clean the filter.
- ⊕ The detergent feed conduit is clogged in some point.
- © Clean out the conduit by removing the dirt.
- The flow-opening solenoid valve is burnt out.
- ⊗ Replace it.

7.1.5. NO SUCTION

- ⊕ The suction hose is not connected to the squeegee.
- © Connect it correctly.
- ⊕ The suction hose or the squeegee conduit are clogged.
- © Clean out and remove any obstructions from the conduits.
- The suction motor is turned off.
- Activate it.
- ☼ The recovery tank is full.
- © Empty it.
- (a) The suction motor is not receiving electric power or is burned.
- © Check the connections and, for the latter case, replace the motor.

7.1.6. INSUFFICIENT SUCTION

- (a) The recovery tank drain hose plug is not perfectly closed.
- © Close it correctly.
- The suction hose, the squeegee conduit or the inspection compartment is clogged.
- © Clean out and remove any obstructions from the conduits.

7.1.7. THE BRUSH MOTOR OR THE SUCTION MOTOR DOESN'T STOP

© Stop the machine, cutting off the main power supply and disconnecting the main battery connector, and contact the technical service centre.

7.1.8. THE SQUEEGEE DOESN'T CLEAN OR DRY EFFICIENTLY

- (a) The squeegee blades are worn or are dragging solid dirt.
- © Replace or clean them.
- The squeegee adjustment is not correct; the advancement must be exactly perpendicular to the running direction.
- Adjust the squeegee.
- ⊕ The suction hose or the squeegee conduit are clogged.
- © Clean out and remove any obstructions from the conduits.

7.1.9. THE BATTERY CHARGER DOESN'T WORK

- ⊗ The battery charge doesn't start .
- © Check that the battery charger is connected to the battery. Consult the battery charger manual.

7.1.10. THE BATTERIES DO NOT CHARGE OR DO NOT HOLD A CHARGE

- At the end of the charging process, the battery is not correctly charged (see the battery manufacturer's instruction-maintenance manual)
- © Check the battery charger error message and check the data indicated on the display (see the battery charger's instruction manual).
- ⓐ The batteries are new and do not generate 100% of the rated performances.
- ©The accumulator reaches the maximum performance after 20-30 complete charge cycles.
- ⊗ The electrolyte has evaporated and does not completely cover the plates.
- © Check the battery manufacturer's use and maintenance manual.
- ③ There are significant differences in density among the various elements.
- © Replace the damaged battery.

Always consult the battery and battery charger use and maintenance manual. If this does not solve the problem, contact the authorised technical service centre.

The manufacturer CANNOT solve problems caused by using batteries and battery chargers that were not directly supplied.

8. CONDITIONS OF WARRANTY

All our appliances are subjected to rigorous tests and are covered by warranty against material or manufacturing defects for a period of 12 months. The warranty

comes into effect from the date of purchase. The date of purchase is the date indicated on the receipt issued by the Reseller when the appliance is consigned. The manufacturer shall repair or replace any faulty parts free of charge during the period covered by the warranty. Any defects, which cannot be clearly attributed to material or manufacturing defects shall be examined by one of our Technical Service Centres or at our factory and charged in accordance with the outcome. The following are anyhow not covered by the warranty: accidental damage during transportation or handling, accidental damage caused by negligence or unsuitable conduct, damage due to incorrect or improper uses or installations which do not conform with the warnings included in the instruction manual, and anyhow due to unusual events which do not depend on the running or use of the appliance. Appliances requiring repair must be delivered at the Technical Service Centre complete with all their original accessories together with proof of purchase. If the appliance has been repaired or tampered with by unauthorised third parties, the warranty shall be considered null and void. The warranty shall also be considered null and void if the user is not able to produce an original (legible and complete) document proving purchase or if it not possible to read the appliance serial number located on the frame. The appliance shall not be replaced and the warranty shall not be extended once the appliance has been affected by a fault. Repairs shall be carried out at one of our Authorised technical Service Centres or at our factory. Appliances for repair must be sent carriage free, that is, the user shall pay and be responsible for carriage. The warranty does not cover the cleaning of working parts, any scheduled maintenance nor the repair or replacement of parts subject to normal wear and tear. The manufacturer shall not be held liable for damage to persons or things caused by any installation which does not comply with the instructions in the manual or faulty use of the appliance.

8.1. SCRAPPING OF THE MACHINE

If the machine will no longer be used, remove the batteries and dispose of them in accordance with the eco-compatibility regulations as set forth in European standard 2013/56/EU or deposit them in an authorised collection centre.

To dispose of the machine, comply with the current laws where it is used:

- disconnect the machine from the mains and clean it after emptying any liquids;
- separate the machine into groups of homogeneous materials (plastics in accordance with the recycling symbol, metals, rubber, packing). For parts containing different materials, contact the competent authorities; Each homogeneous group must be disposed of in accordance with recycling laws.

In addition, it is recommended to eliminate those parts of the machine that may be dangerous, especially for children.

8.2. DISPOSAL (WEEE)

As the owner of electrical or electronic equipment, the law (in accordance with the EU Directive 2012/19/EU on waste from electrical and electronic equipment and the national laws of the EU Member States that have imple-

mented this Directive) prohibits you from disposing of this product or its electrical / electronic accessories as municipal solid waste and obliges you to make use of the appropriate waste collection facilities. The product can be disposed of by returning it to the distributor when a new product is purchased. The new product must be equivalent to that being disposed of. Disposing of the product in the environment can cause great harm to the environment itself and human health.

The symbol in the figure indicates the urban waste containers and it is strictly prohibited to dispose of the equipment in these containers. Non-compliance with the regulationtis spulated in the Directive 2012/19/EU and the decrees implemented in the various EU Member States is administratively punishable.

 Prolunga elettrica Extension cord Rallonge de alimentation électrique 	220-240 V	< 1500 W (1.5 KW)	1500 - 2200 W (1.5 - 2.2 KW)	2200-3000 (2.2 - 3 KW
Verlängerungskabels Prolongación de cable eléctrico	< 20 m	1,5 mm ²	2,5 mm ²	2,5 mm ²
	> 20 - 50 m	2,5 mm ²	2,5 mm ²	4,0 mm ²

Przedłużenie kabla elektrycznego Hvis det brukes en skjøteledning må Forlængerledninger at strømforsyningsledningen	120 V	< 1500 W (1.5 KW)	1500 - 2200 W (1.5 - 2.2 KW)	
Bir uzatmanın kullanılması halinde	< 20 m	1,5 mm ²	2,5 mm ²	
Prelungirea cablului electric Pokud je použita přívodní šňůra	> 20 - 50 m	2,5 mm ²	4 mm ²	

LpA 73 dB(A)

(uncertainty) Kpa 3dB (A)

GR Καλώδιο προέκτασης

Livello pressione acustica

Extensão de cabo elétrico

Verlenganoer van electrische kabel

Acoustic pressure

R Niveau de pression acoustique

ВС Когато използвате удължителен кабел

Schalldruckpegel

Nivel de ruido

Я Уровень звукового давления

Nível de pressão acústica:

■ Geluidsdrukniveau

Poziom ciśnienia akustycznego

M Akustisk trykknivå

Akustisk trykknivå

Nivel presiune acustică

Hladina akustického tlaku

ВС Акустично налягане

GR Στάθμη ηχητικής πίεσης

LwA 85dB(A)

Livello di potenza sonora misurato

Acoustic power measured

Niveau du puissance sonore mesuré Abgemesstes Schalleistungsniveau

Nivel de potencia acústica mesurado Акустическая измеренная мощность Nível de potência sonora medido

Geluidsdrukniveau LwA gemeten Zmierzony poziom mocy akustycznej Lydeffekt, målt

Målt lydeffektniveau

Nivelul de putere acustica masurat

Naměřena hladina akustického výkonu Измерена акустична мошност

Μετρημένη στάθμη ηχητικής πίεσης

LwA 86 dB(A)

Livello di potenza sonora garantito Acoustic power granted Niveau du puissance sonore garanti Garantiertes Schalleistungsniveau Nivel de potencia acústica garantido Акустическая мощность предоставлено Nível de potência sonora garantido Geluidsdrukniveau LwA gegarandeerd Gwarantowany poziom mocy akustycznej Lydeffekt, garantert Garanteret lydeffektniveau

Nivelul de putere acustica garantat Zaručená hladina akustického výkonu Допустима акустична мощност Εγγυημένη στάθμη ηχητικής πίεσης

$a_h \le 2.5 \text{m/s}^2$

- Vibrazioni trasmesse all'utilizzatore
- Wibrations
- Vibrations transmises à l'utilisateur
- Effektivbeschleunigung Vibrationswert
- Vibraciónes transmitidas al usuario
- Вибрации, передаваемые пользователю
- Vibrações
- Op de gebruiker overgebrachte trillingen

- Wibracje przekazywane użytkownikowi
- Effektiv akselerasjon hånd-arm vibrasjonsverdi
- Effektiv acceleration hånd-arm vibrationsværdi
- W Vibratii transmise utilizatorului
- Wibrace přenášené na uživatele
- Вибрации, предавани на потребителя
- Φονήσεις που μεταφέρονται στον χειριστή
- Le misure sono state fatte in accordo con la norma
- Values according to standard
- Valeurs déterminées selon la norme
- **DE** Ermittelte Werte gemäss der Norm
- Valor calculado de acuerdo con la norma
- Valor Calculado de acuerdo com la norma
- Значения, определенные согласно от нормы
- Valores apurados de acordo com a norma
- Bepaalde waarden conform de norm

- Wartości określone według z normą
- No Verdiene fastsatt i samsvar med regelverk standard
- Beregnede værdier i henhold til regler standard
- Nalori determinate în conformitate cu standardul
- Zjištěné hodnoty podle předpisy
- **BG** Генерален директор
- Οι μετρήσεις πραγματοποιήθηκαν σύμφωνα με το πρότυπο

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