

SC250, Scrubtec 334

Instructions for use

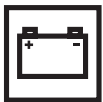
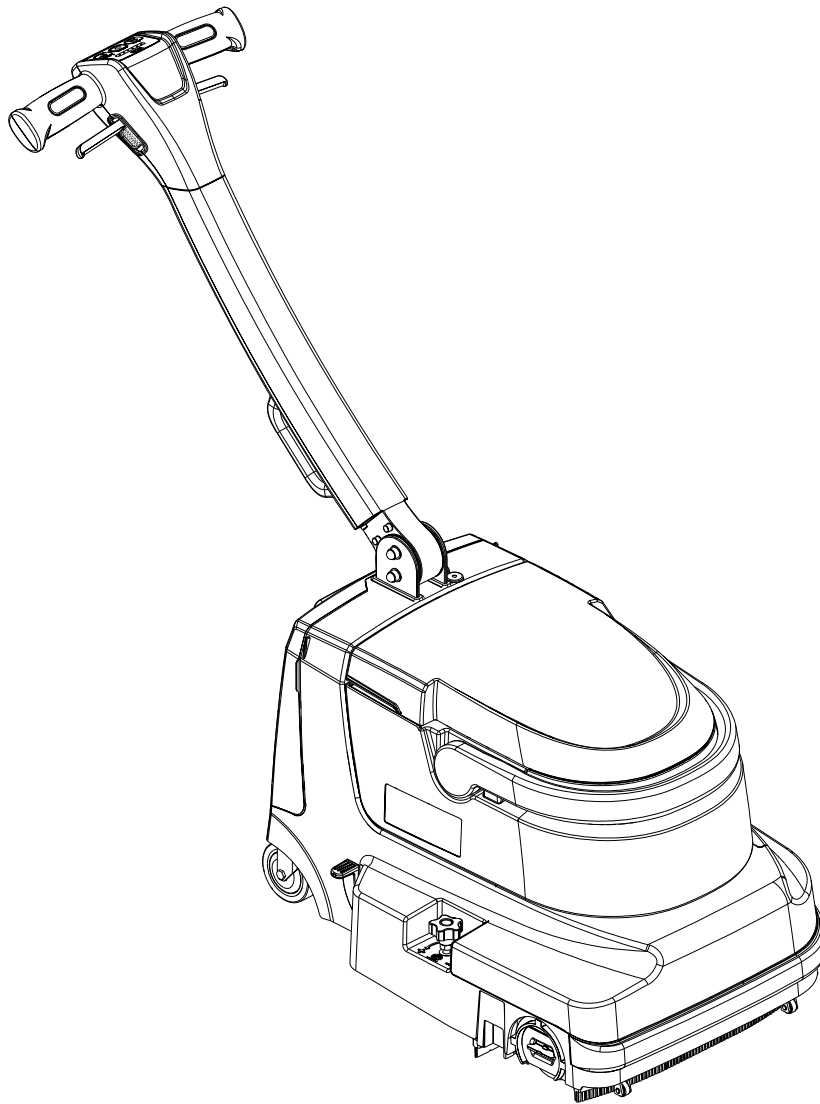
Bedienungshandbuch
Instructions d'utilisation
Instructions for use
Gebruiksaanwijzing



07/2016
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Deutsch
Français
English
Nederlands



Model:
9087380020, 9087382020

Сертификат за съответствие
Osvědčení o shodě
Konformitätserklärung
Overensstemmelsescertifikat
Declaración de conformidad
Vastavussertifikaat
Déclaration de conformité
Yhdenmukaisuustodistus
Conformity certificate

Πιστοποιητικό συμμόρφωσης
Megfelelősségi nyilatkozat
Potvrda sukladnosti
Dichiarazione di conformità
Atitikties deklaracija
Atbilstības deklarācija
Konformitetssertifisering
Conformiteitsverklaring
Declaração de conformidade

Deklaracja zgodności
Certificat de conformitate
Заявление о соответствии
Överensstämmelsecertifikat
Certifikát súladu
Certifikat o ustreznosti
Uyumluk sertifikası



Модел / Model / Modell / Model / Modelo / Mudel / Modèle / Malli / Model
/ Μοντέλο / Modell / Model / Modello / Modelis / Modelis / Modell / Model
/ Modelo / Model / Model / Модель / Model / Model / Model :

SC250, Scrubtec 334

Тип / Typ / Type / Tipo / Tüüp / Type / Tuurpi / Type / Τύπος /
Típus / Vrsta / Tipo / Tipas / Tips / Type / Type / Tipo / Typ / Tip / Тип /
Typ / Typ / Tip / Tip :

SCRUBBER-DRYER

Сериен номер / Výrobní číslo / Seriennummer / Seriennummer / Número de serie / Seerianumber / Numéro de série / Sarjanumero / Serial number /
Σειριακός αριθμός / Sorozatszám / Serijski broj / Numero di serie / Serijos numeris / Sērijas numurs / Seriennummer / Seriennummer / Número de série /
Numer seryjny / Număr de serie / Серийный номер / Seriennummer / Výrobné číslo / Serijska številka / Seri Numarası :

Година на производство / Rok výroby / Baujahr / Fabrikationsår / Año de fabricación / Văljalaskeasta / Année de fabrication / Valmistusvuosi / Year of
construction / Έτος κατασκευής / Gyártási év / Godina izgradnje / Anno di costruzione / Pagaminimo metai / Izgatavošanas gads / Byggår / Bauwjaar /
Ano de fabrico / Rok produkcji / Anul fabricației / Год выпуска / Tillverkningsår / Rok výroby / Leto izdelave / Leto izdelave / İmal yılı :

BG Долуподписаният потвърждава, че гореспоменатият модел е произведен в съответствие със следните директиви и стандарти. Техническият файл е съставен от производителя.

GB The undersigned certify that the above mentioned model is produced in accordance with the following directives and standards. The technical file is compiled by the manufacturer.

P A presente assinatura serve para declarar que os modelos supramencionados são produtos em conformidade com as seguintes diretivas e normas. A ficha técnica é redigida pelo fabricante.

CZ Niže podepsaný stvrzuje, že výše uvedený model byl vyroben v souladu s následujícími směrnici a normami. Autorem technického listu je výrobce.

GR Ο κάτωθι υπογεγραμμένος πιστοποιεί ότι η παραγωγή του προαναφερθέντος μοντέλου γίνεται σύμφωνα με τις ακόλουθες οδηγίες και πρότυπα. Το τεχνικό αρχείο συντάσσεται από τον κατασκευαστή.

PL Niżej podpisany zaświadcza, że wymieniony powyżej model produkowany jest zgodnie z następującymi dyrektywami i normami. Dokumenty techniczne zostały przygotowane przez producenta.

D Der Unterzeichner bestätigt hiermit dass die oben erwähnten Modelle gemäß den folgenden Richtlinien und Normen hergestellt wurden. Die technische Dokumentation wird vom Hersteller erstellt.

H Alulírottak igazoljuk, hogy a fent említett modellt a következő irányelvek és szabványok alapján hoztuk létre. A műszaki fájlt a gyártó készítette.

RO Subsemnatul atest că modelul susmenționat este produs în conformitate cu următoarele directive și standarde. Fișierul tehnic este redactat de către producător.

DK Undertegnede attesterer herved, at ovennævnte model er produceret i overensstemmelse med følgende direktiver og standarder. Den tekniske fil er udarbejdet af fabrikanten.

HR Potpisani potvrđujem da gore spomenuti model proizveden u skladu sa sljedećim direktivama i standardima. Tehničku dokumentaciju sastavlja proizvođač.

RUS Настоящим удостоверяется, что машина вышеуказанной модели изготовлена в соответствии со следующими директивами и стандартами. Техническая документация составлена производителем.

E El abajo firmante certifica que los modelos arriba mencionados han sido producidos de acuerdo con las siguientes directivas y estándares. El fascículo técnico está redactado por el fabricante

I Il sottoscritto dichiara che i modelli sopra menzionati sono prodotti in accordo con le seguenti direttive e standard. Il fascicolo tecnico è redatto dal costruttore.

S Underteknad intygar att ovannämnda modell är producerad i överensstämmelse med följande direktiv och standarder. Den tekniska filen är sammanställd av tillverkaren.

EST Allakirjutanu kinnitab, et ülalnimetatud mudel on valmistatud kooskõlas järgmiste direktiivide ja normidega. Tehnilise dokumentatsiooni koostab tootja.

LT Toliau pateiktu dokumentu patvirtinama, kad minėtas modelis yra pagamintas laikantis nurodytų direktyvų bei standartų. Techninę bylą sudarė gamintojas.

SK Dolu podpísaný osvedčuje, že hore uvedený model sa vyrába v súlade s nasledujúcimi smernicami a normami. Technický súbor vytvoril výrobca.

F Je soussigné certifie que les modèles ci-dessus sont fabriqués conformément aux directives et normes suivantes. Le dossier technique est rédigé par le fabricant.

N Undertegnede attesterer att ovennævnte modell är produceret i överensstemmelse med följande direktiv och standarder. Den tekniske filen er opprettet av produsenten.

SLO Spodaj podpisani potrjujem, da je zgoraj omenjeni model izdelan v skladu z naslednjimi smernicami in standardi. Spis s tehnično dokumentacijo pripravi izdelovalec.

FIN Allekirjoittaja vakuuttaa että yllämainittu malli on tuotettu seuraavien direktiivien ja standardien mukaan. Valmistaja kääntää teknisen tiedoston.

NL Ondergetekende verzekert dat de bovengenoemde modellen geproduceerd zijn in overeenstemming met de volgende richtlijnen en standaards. Het technische bestand is door de fabrikant samengesteld.

TR Aşağıda İmzası olan kişi, yukarıda bahsedilen model cihazın aşağıda verilen direktiflere ve standartlara uygunlukta imal edildiğini onaylar. Teknik dosya üretici tarafından derlenmiştir.

EC Machinery Directive 2006/42/EC

EN ISO 12100, EN ISO 13857, EN 349, EN 982

EN 60335-1, EN 60335-2-72, EN 50366

EC EMC Directive 2014/30/EU

EN 55014-1, EN 55014-2, EN 61000-6-2

Производителя / Výrobce / Hersteller / Fabrikanten /
Fabricante / Tootja / Fabricant / Valmistaja / Manufacturer
/ Κατασκευαστή / Gyártó / Proizvođač / Costruttore
/ Gamintojas / Ražotājs / Produsenten / Fabrikant /
Fabricante / Producenta / Producător / Производителем /
Tillverkaren / Výrobca / Izdelovalec / Üretici :

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Date:

Signature:

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INTRODUCTION



NOTE

The numbers in brackets refer to the components shown in Machine Description chapter.

MANUAL PURPOSE AND CONTENTS

The purpose of this Manual is to provide the operator with all necessary information to use the machine properly, in a safe and autonomous way. It contains information about technical data, safety, operation, storage, maintenance, spare parts and disposal. Before performing any procedure on the machine, the operators and qualified technicians must read this Manual carefully. Contact Nilfisk in case of doubts concerning the interpretation of the instructions and for any further information.

TARGET

This Manual is intended for operators and technicians qualified to perform the machine maintenance.

The operators must not perform procedures reserved for qualified technicians. Nilfisk will not be answerable for damages coming from the non-observance of this prohibition.

HOW TO KEEP THIS MANUAL

The Instructions for Use Manual must be kept near the machine, inside an adequate case, away from liquids and other substances that can cause damage to it.

DECLARATION OF CONFORMITY

The Declaration of Conformity, supplied with the machine, certifies the machine conformity with the law in force.



NOTE

Two copies of the original declaration of conformity are provided together with the machine documentation.

IDENTIFICATION DATA

SC250, Scrubtec 334 is a scrubber-dryer for commercial use.

The machine serial number and model name are marked on the plate (30).

Year of production (Date code: A16 means January 2016) and product code are marked on the same plate.

This information is useful when requiring machine spare parts. Use the following table to write down the machine identification data.

MACHINE model
PRODUCT code
MACHINE serial number

OTHER REFERENCE MANUALS

- Electronic battery manual
- Spare Parts List (supplied with the machine)
- Service Manual (that can be consulted at Nilfisk Service Centers)

SPARE PARTS AND MAINTENANCE

All necessary operating, maintenance and repair procedures must be performed by qualified personnel or by Nilfisk Service Centers. Only original spare parts and accessories must be used.

Contact Nilfisk for service or to order spare parts and accessories, specifying the machine model, product code and serial number.

CHANGES AND IMPROVEMENTS

Nilfisk constantly improves its products and reserves the right to make changes and improvements at its discretion without being obliged to apply such benefits to the machines that were previously sold.

Any change and/or addition of accessory must be approved and performed by Nilfisk.

OPERATION CAPABILITIES

The SC250 Scrubtec 334 scrubber-dryer is used to clean (scrubbing and drying) smooth and solid floors, in commercial or industrial environment, under safe operation conditions by a qualified operator.

The scrubber-dryer cannot be used for fitted carpet and carpet cleaning.

CONVENTIONS

Forward, backward, front, rear, left or right are intended with reference to the operator's position when in use.

UNPACKING/DELIVERY

When the machine is delivered, check that the packing and the machine were not damaged during transportation.

In case of visible damages, keep the packing and have it checked by the carrier that delivered it. Call the carrier immediately to fill in a damage claim.

Please check that the following items have been supplied with the machine:

- Technical documents:
 - Scrubber-dryer Instructions for Use Manual
 - Scrubber-dryer Spare Parts List
- 1 x lithium ion battery
- 1 x battery charger
- 1 x cylindrical brush
- 1 x pair of squeegees



CAUTION!

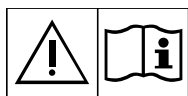
After unpacking, carefully assemble the machine according to the instruction sheet inside the packaging.

SAFETY

The following symbols indicate potentially dangerous situations. Always read this information carefully and take all necessary precautions to safeguard people and property.

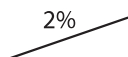
The operator's cooperation is essential in order to prevent injury. No accident prevention program is effective without the total cooperation of the person responsible for the machine operation. Most of the accidents are caused by failure to comply with the simplest rules for exercising prudence.

VISIBLE SYMBOLS ON THE MACHINE



WARNING!

Carefully read all the instructions before performing any operation on the machine.



WARNING!

Do not use the machine on slopes with a gradient exceeding the specifications.

SYMBOLS THAT APPEAR ON THIS MANUAL



DANGER!

It indicates a dangerous situation with risk of death for the operator.



WARNING!

It indicates a potential risk of injury for people.



CAUTION!

It indicates a caution or a remark related to important or useful functions. Pay careful attention to the paragraphs marked by this symbol.



NOTE

It indicates a remark related to important or useful functions.



CONSULTATION

It indicates the necessity to refer to the Instructions for Use Manual before performing any procedure.

GENERAL INSTRUCTIONS

Specific warnings and cautions to inform about potential damages to people and machine are shown below.



DANGER!

- Before performing any maintenance, repair, cleaning or replacement procedure disconnect the battery.
- This machine must be used by properly trained operators only.
- Do not wear jewels when working near electrical components.
- Do not operate the machine near toxic, dangerous, flammable and/or explosive powders, liquids or vapours. This machine is not suitable for collecting dangerous powders.



DANGER! (for battery and battery charger)

- Read all safety warnings and all instructions. Failure to follow the warnings and instructions may result in electrical shock, fire and/or serious injury.



WARNING! (for battery and battery charger)

- This machine is equipped with a lithium ion battery.
- Do not use any other type of batteries; only use the one supplied with the machine or its original spare part.
- Before each used, check if it's damaged.
- Do not soak in liquids.
- Under abusive conditions, liquid may be ejected from the battery; avoid contact. If contact accidentally occurs, flush with water. If liquid contacts eyes, additionally seek medical help. Liquid ejected from the battery may cause irritation or burns.
- Do not use a battery pack or appliance that is damaged or modified. Damaged or modified batteries may exhibit unpredictable behavior resulting in fire, explosion or risk of injury.
- Do not expose a battery pack or appliance to fire or excessive temperature. Exposure to fire or temperature above 130 °C may cause explosion.
- Do not store, use or recharge in environments with a temperature higher than 45 °C.
- Do not recharge with temperatures lower than 0 °C.
- Due to the risk of short-circuit, do not store the battery with metal objects.
- If the battery is damaged, take it to a Nilfisk Service Centre.
- Before decommissioning the machine, remove the battery.
- Store the battery charger in a dry place.
- If the battery charger or the cable are wet, do not use it.
- Before using the battery charger, make sure that the frequency and voltage values, marked on the plate, correspond to the mains voltage values.
- Do not use the battery charger in environments where there are flammable powders and/or explosive materials.
- Do not handle the battery charger by its main cable.
- Do not pull or carry the machine by the battery charger cable and never use the battery charger cable as a handle. Do not close a door on the battery charger cable, or pull the battery charger cable around sharp edges or corners. Do not run the machine on the battery charger cable.
- Keep the battery charger cable away from heated surfaces.
- Do not charge the battery if the battery charger cable or the plug are damaged.
- Do not cover the battery charger.
- Always use the battery charger supplied with the machine or the original spare part. Any other battery charger must have the same specifications indicated in the chapter Technical Characteristics and must supply a Safety Extra Low Voltage (SELV).



WARNING!

- Carefully read all the instructions before performing any maintenance/repair procedure.
- To reduce the risk of fire, electric shock, or injury, do not leave the machine unattended when it is plugged in. Before performing any maintenance procedure, disconnect the battery charger cable from the electrical mains.
- Do not smoke while charging the battery.
- Always protect the machine against the sun, rain and bad weather, both under operation and inactivity condition. This machine must be used indoors in dry conditions, it must not be used or kept outdoors in wet conditions.
- Before using the machine, close all doors and/or covers as shown in the Instructions for Use Manual.

**WARNING!**

- *This machine 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 machine by a person responsible for their safety. Children should be supervised to ensure that they do not play with the machine.*
- *Close attention is necessary when used near children.*
- *Use only as shown in this Manual. Use only Nilfisk's recommended accessories.*
- *Check the machine carefully before each use, always check that all the components have been properly assembled before use. If the machine is not perfectly assembled it can cause damages to people and properties.*
- *Take all necessary precautions to prevent hair, jewels and loose clothes from being caught by the machine moving parts.*
- *Do not use the machine on slopes.*
- *Do not use the machine on slopes with a gradient exceeding the specifications.*
- *Do not use the machine in particularly dusty areas.*
- *Use the machine only where a proper lighting is provided.*
- *While using this machine, take care not to cause damage to people or objects.*
- *Do not bump into shelves or scaffoldings, especially where there is a risk of falling objects.*
- *The machine working temperature must be between 0 °C and +40 °C.*
- *The machine storage temperature must be between 0 °C and +40 °C.*
- *The humidity must be between 30 % and 95 %.*
- *When using floor cleaning detergents, follow the instructions on the labels of the detergent bottles.*
- *To handle floor cleaning detergents, wear suitable gloves and protections.*
- *Do not use the machine as a means of transport.*
- *Do not allow the brush to operate while the machine is stationary to avoid damaging the floor.*
- *In case of fire, use a powder fire extinguisher, not a water one.*
- *Do not tamper with the machine safety guards and follow the ordinary maintenance instructions scrupulously.*
- *Do not allow any object to enter into the openings. Do not use the machine if the openings are clogged. Always keep the openings free from dust, hairs and any other foreign material which could reduce the air flow.*
- *Do not remove or modify the plates affixed to the machine.*
- *This machine cannot be used on roads or public streets.*
- *Pay attention during machine transportation when temperature is below freezing point. The water in the recovery tank or in the hoses could freeze and seriously damage the machine.*
- *Use only the brushes supplied with the machine or those specified in the Instructions for Use Manual. Using other brushes could reduce safety.*
- *In case of machine malfunctions, ensure that these are not due to lack of maintenance. If necessary, request assistance from the authorised personnel or from an authorised Service Center.*
- *If parts must be replaced, require ORIGINAL spare parts from an Authorised Dealer or Retailer.*
- *To ensure machine proper and safe operation, the scheduled maintenance shown in the relevant chapter of this Manual, must be performed by the authorised personnel or by an authorised Service Center.*
- *Do not wash the machine with direct or pressurised water jets, or with corrosive substances.*
- *The machine must be disposed of properly, because of the presence of toxic-harmful materials (batteries, etc.), which are subject to standards that require disposal in special centres (see Scrapping chapter).*

TECHNICAL DATA

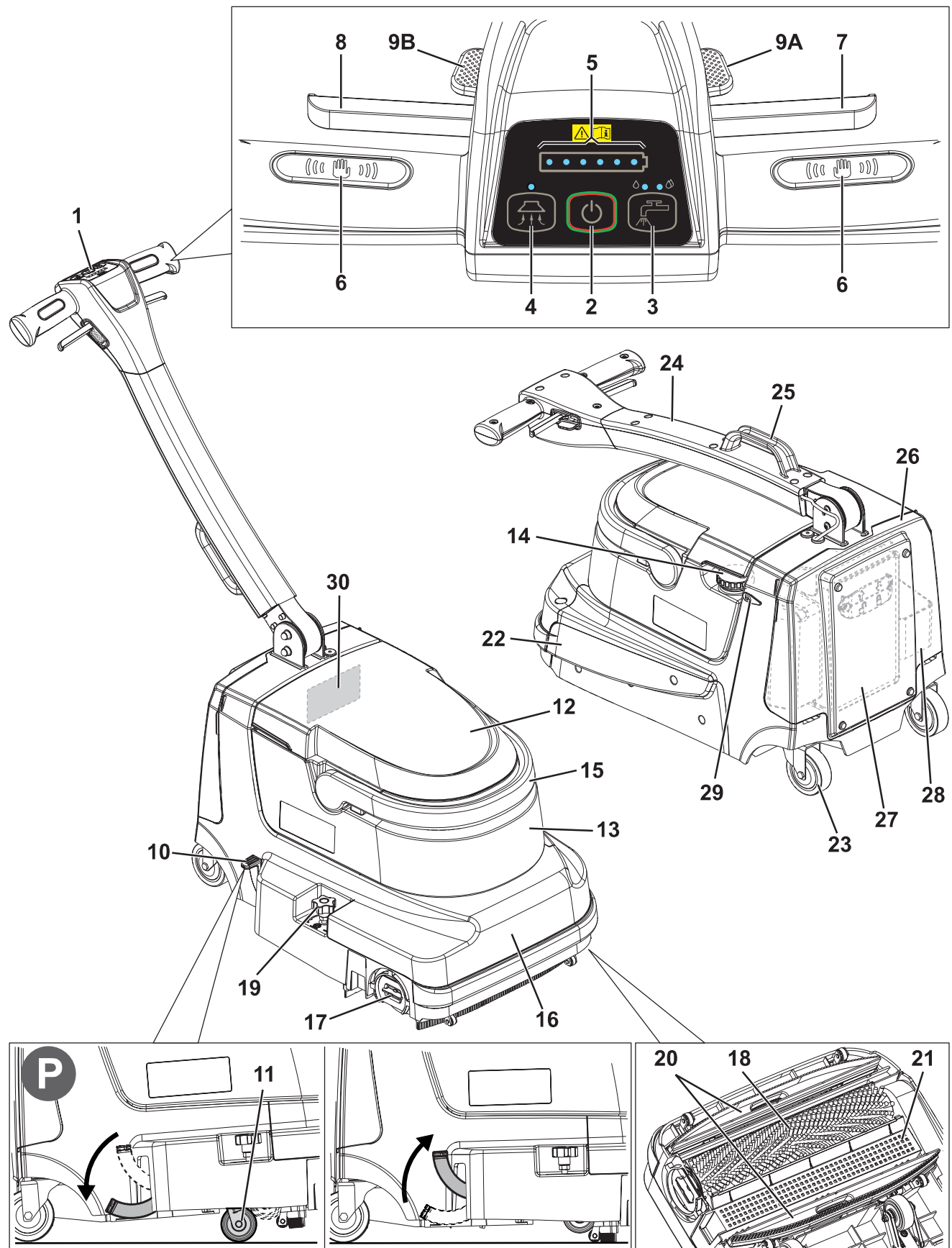
Model	SC250, Scrubtec 334
Solution and recovery water tank capacity	6 litres / 6 litres
Machine size (length x width x height)	630 x 425 x 400 mm
Cleaning width	340 mm
Squeegee width	360 mm
Rear rotating wheel diameter	75 mm
Front wheel diameter	50 mm
Cylindrical brush diameter	80 mm
Brush pressure on the ground	Max. 12 Kg
Min/max solution flow	0.15 / 0.3 L/min
Sound pressure level at workstation (ISO 11201, ISO 4871, EN 60335-2-72) (LpA)	66 dB(A) ± 3 dB(A)
Machine sound power level (ISO 3744, ISO 4871, EN 60335-2-72) (LwA)	83 dB(A)
Vibration level at the operator's arms (ISO 5349-1, EN 60335-2-72)	< 2.5 m/s ²
Maximum gradient when working	2 %
Vacuum system motor power	180 W
Vacuum system capacity	650 mm H ₂ O
Brush motor power	180 W
Brush rotation speed	1,000 rpm
Total power draw (EN 60335-2-72)	0.3 kW
IP protection class	X4
Protection class (electric)	III
Electrical system voltage	36 Vdc
Standard battery	Lithium Ion - 36 Vdc 8Ah
Battery charger output	42 Vdc 1+2 A
Operating time (EN 60335-2-72)	40 min
Weight with empty tanks	25 Kg
Gross vehicle weight (GVW)	32 Kg
Shipping weight	30 Kg

MACHINE DESCRIPTION

MACHINE STRUCTURE

1. Handlebar with control panel
2. Start/stop switch
3. Solution switch:
 - 1 LED on - normal cleaning with low solution flow
 - 2 LEDs on - cleaning with maximum solution flow
 - 2 LEDs flashing - solution tank empty
 - LEDs off - solution deactivated
4. Vacuum system push-button:
 - LED on - vacuum system activated
5. Battery charging symbol
 - 1 - 6 LEDs on - battery charge percentage
 - 1 LED on - battery almost flat (~ 10 min. remaining)
 - 1 LED flashing - battery flat (~ 5 min. remaining)
6. Grip handles with operator palm sensors
7. Front squeegee lifting lever
8. Handlebar inclination adjustment lever
9. Function block push-buttons:
 - A) Front squeegee lifted
 - B) Handlebar free angle
10. Park pedal:
 - Lowered - parking/movement
 - Raised - scrubbing/drying
11. Parking/handling front wheel
12. Recovery tank cover
13. Tanks (solution and recovery water) container
14. Solution tank filler plug
15. Tanks container lifting handle
16. Machine body/cleaning deck
17. Brush engagement/disengagement lever
18. Cylindrical brush
19. Brush floor pressure regulation knob
20. Squeegee bars
21. Debris collection tray
22. Brush drive belt compartment
23. Rear pivoting wheels
24. Folded handlebar
25. Transport handle
26. Battery and electronics compartment cover
27. Battery
28. Battery charger tray
29. Socket for battery charger
30. Serial number plate/technical data/conformity certification

MACHINE STRUCTURE (Continues)



P100930

ACCESSORIES/OPTIONS

In addition to the standard components, the machine can be equipped with the following accessories/options, according to the machine specific use:

- Cylindrical brush SOFT NYLON BLACK
- Cylindrical brush MEDIUM NYLON WHITE
- Cylindrical brush HARD GRIT 120 GREY
- Cylindrical brush MICROFIBRE
- Battery + battery charger kit

For further information concerning the optional accessories, contact an authorised Retailer.

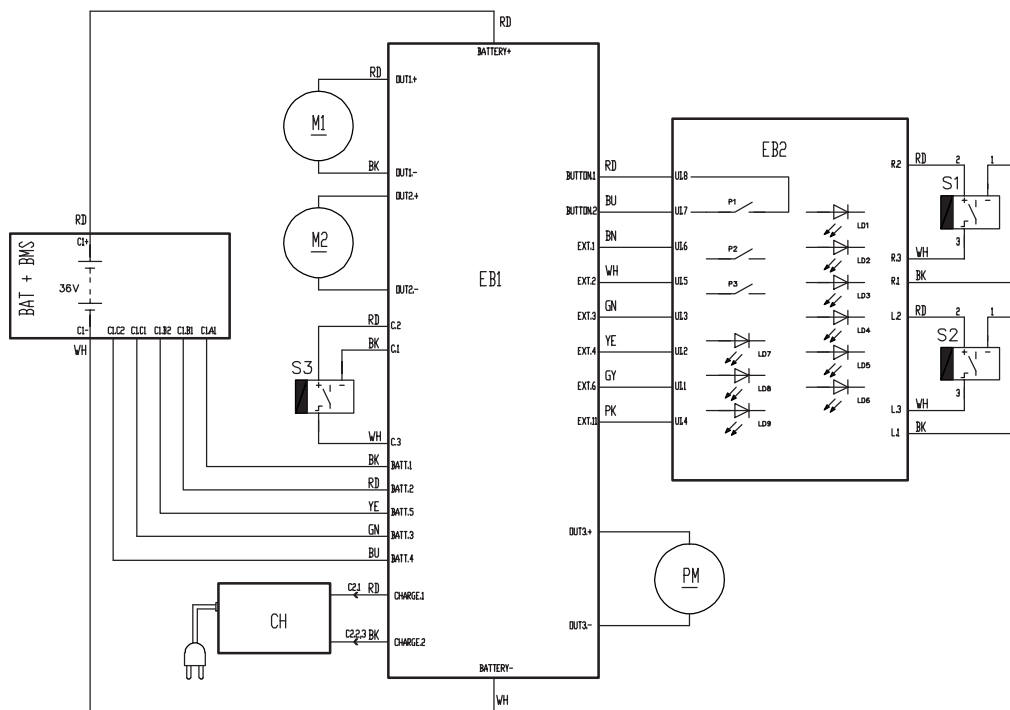
WIRING DIAGRAM

Key

BAT+BMS	Lithium ion battery + Control system
C1	Battery connector
CH	Battery charger
EB1	Function electronic board
EB2	Display electronic board
M1	Brush motor
M2	Vacuum system motor
PM	Solution pump
S1	Grip handle sensor (right)
S2	Grip handle sensor (left)
S3	Solution presence sensor

Colour codes

BK	Black
BU	Blue
BN	Brown
GN	Green
GY	Grey
OG	Orange
PK	Pink
RD	Red
VT	Violet
WH	White
YE	Yellow



P100931

USE/OPERATION

CHECKING/SETTING UP A NEW MACHINE



WARNING!

The electric components of the machine can be seriously damaged if the battery is either improperly installed. Check the battery for damage before installation.

1. Install the battery (27), the cylindrical brush (18) and the squeegee bars (20), as shown in the instruction sheet inside the machine packaging.
2. When first using the machine, perform a full charging cycle (see the procedure in the Maintenance chapter).

PARK PEDAL



NOTE

In order to facilitate the use of the park pedal (10), slightly lift the front section of the machine by gaining leverage with your hands on the handlebar (A, Fig. 1).

For parking/handling:

1. Putting your hands on the handlebar (A), slightly lift the front section of the machine, then press the pedal (B, Fig. 1).
In this condition, the front wheels (11) are resting on the floor and the brush/squeegee unit is lifted.

For washing/drying:

2. Putting your hands on the handlebar (A), slightly lift the front section of the machine, then lift the pedal (C).
In this conditions, the front wheels (11) are retracted and the brush/squeegee unit is resting on the floor.

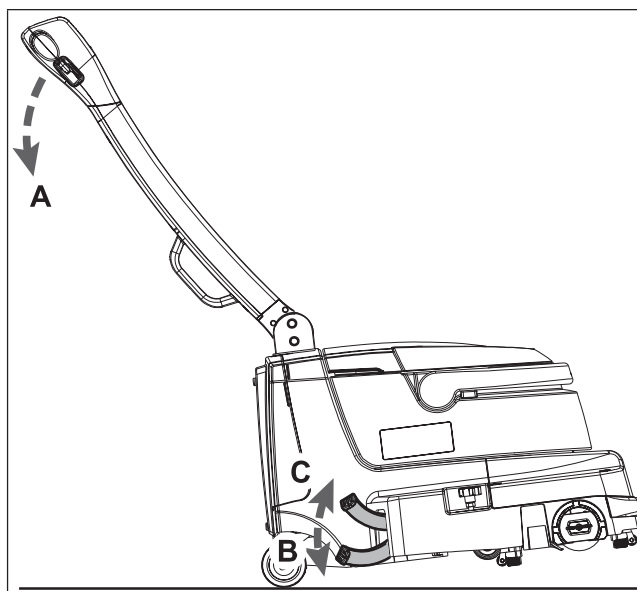


Figure 1

P100932



CAUTION!

Use only low-foam and non-flammable detergents, intended for automatic scrubber applications.



WARNING!

When using floor cleaning detergents, follow the instructions on the labels of the detergent bottles.

To handle floor cleaning detergents, wear suitable gloves and protections.

1. Remove the tank cover (12).
2. Remove the cap (A, Fig. 2) on the solution tank (B).
3. Fill the solution tank (B) with water, leaving a few centimetres from the top.
The water temperature must not exceed 40 °C.
4. Use the measurement mark on the cap (A) to mix the solution.
The capacity to the mark is 30 ml, equivalent to a 0,5 % solution when diluted in a full tank of water. **Always follow the dilution instructions on the label of the chemical product used to prepare the solution.**
5. Replace the cap (A) on the solution tank.
6. Replace the tank cover (12).



NOTE

Whenever the 2 LEDs on the solution push-button (3) flash, stop the machine and fill the solution tank.

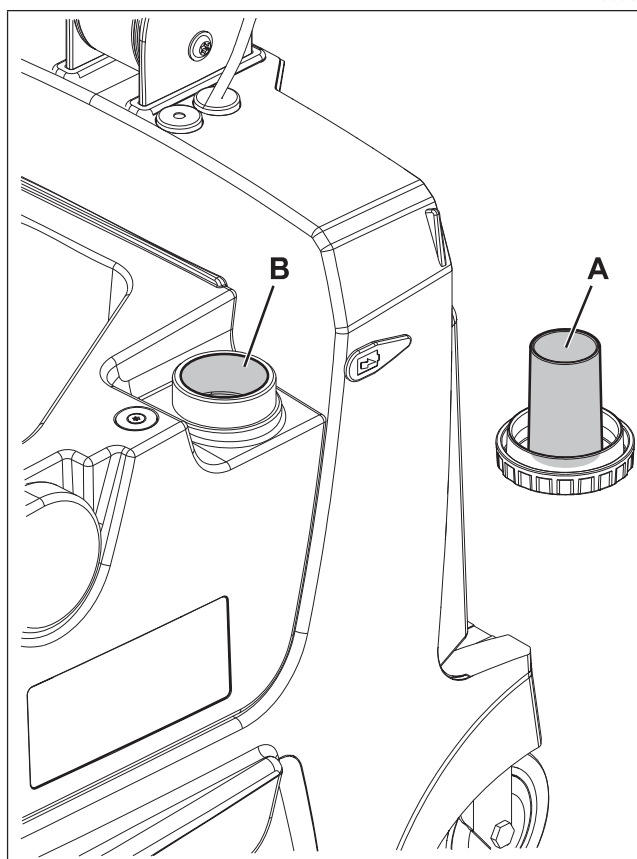


Figure 2

P100933

STARTING UP THE MACHINE (SCRUBBING/DRYING)

1. Press the lever (8) and turn the handlebar (1), adjusting its position and inclination as preferred.
2. Ensure that the park pedal (10) is lowered, then push the machine over to the area to be cleaned.
3. Lift the park pedal (10) to bring the brush/squeegee unit in contact with the floor.
4. Press the switch (2) to start the machine.
5. Press the solution push-button (3) according to the type of cleaning to be performed:
 - 1 LED on - for normal dirt
 - 2 LEDs on - for heavy dirt
6. Manoeuvre the machine with your hands on the grip handles (6) and start scrubbing/drying the floor.



NOTE

The grip handles (6) have sensors which allow the brush and solution to be started up only when the operator has their hands on at least one of the grip handles.

7. If necessary, deactivate the vacuum system by pressing the push-button (4, LED off), then press it again to reactivate it (LED on).
8. To collect medium-large debris, lift the front squeegee by pressing the lever (7).
To keep the front squeegee lifted, press the lever (7) and lock it with the push-button (9A).
9. If necessary, in order to use the handlebar allowing it to tilt, press the lever (8) and lock it with the button (9B).



NOTE

To unblock the function of the push-buttons (9A, 9B) and return to the lowered front squeegee and fixed handlebar, briefly press the squeegee lever (7) or the handlebar inclination lever (8).

10. For floors with particularly tough dirt, the pressure of the brush on the floor can be increased by turning the knob (19) to the left. Turn the knob (19) to the right to decrease the pressure.



NOTE

For correct scrubbing/drying of floors at the sides of the walls, Nilfisk suggests to go near the walls with the right side of the machine as shown in figure 3.



NOTE

If applicable, to better dry the grout lines between the tiles, move in a diagonal direction with respect to the floor layout, as shown in figure 4.

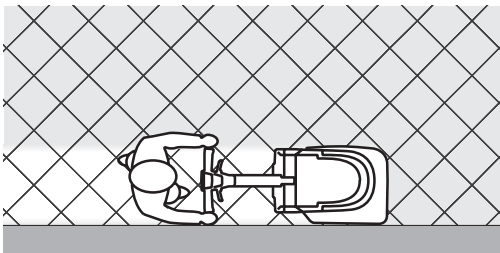


Figure 3

P100934

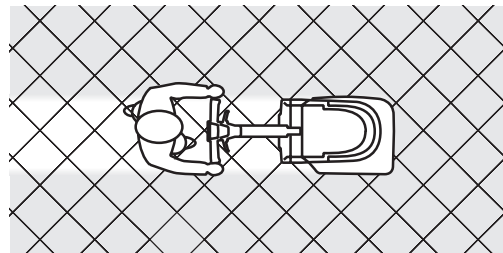


Figure 4

P100935



CAUTION!

In the event of a brush motor overload, the battery symbol LEDs (5) will flash simultaneously.

If the overload persists, the brush stops.

To start scrubbing again after a brush stop due to overload, turn off and then on the machine with the push-button (2).



CAUTION!

To avoid damaging the floor surface, do not use the brush without the solution and, when the machine is not operating, stop the brush rotation by releasing the grip handles (6).



CAUTION!

Use always the machine with solution; avoid using the machine dry without solution for long period of time.

BATTERY CHARGE LEVEL

The battery charge level can be viewed on the battery icon LEDs (5).

The battery charge percentage depends on the number of LEDs lit, as shown in the figure 5.

When the first left LED flashes (15 %), the machine will only run for a few more minutes (this will depend on the characteristics of the work to perform).

STOPPING THE MACHINE

1. Turn off the machine by pressing the switch (2).
2. Press the park pedal (10) to lift the brush/squeegee unit.



NOTE

If the machine is on but not working (without the operator's hands on the grip handles), it automatically turns off after 2 minutes.

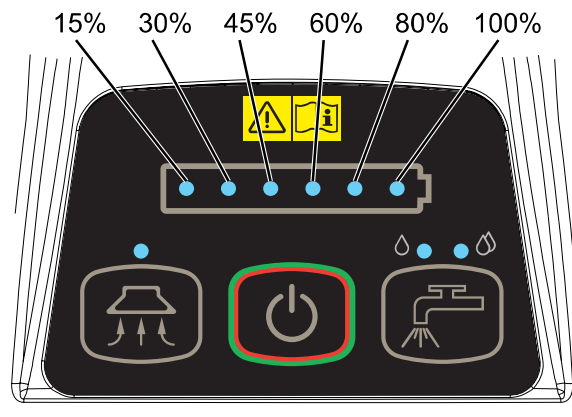


Figure 5

P100936

TANK EMPTYING

An automatic float shut-off system turns off the vacuum system when the recovery tank is full.

The vacuum system deactivation is signalled by a sudden increase in the vacuum motor noise, and the floor is not dried. When the recovery tank is full, empty it according to the following procedure.

Recovery tank emptying

1. Turn the machine off and press the park pedal.
2. Drive the machine to the appointed disposal area.
3. Turn and use the handle (A, Fig. 6) to lift the tanks container (B) from the machine.
4. Remove the cover (C) and empty the recovery tank; rinse the tank with clean water at the end of the work.

Solution tank emptying

5. Perform steps 1 to 4.
6. Remove the plug (14) and empty the solution tank. Then, rinse the tank with clean water.
7. Reinstall the tanks container (13) on the machine body (16), rotate the handle (A) to the horizontal position and reposition the tank cover (C).

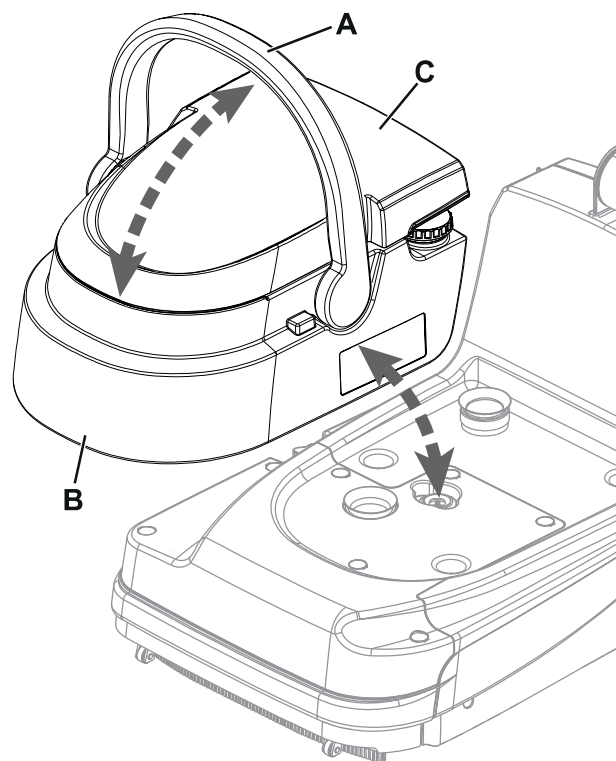


Figure 6

P100937

MACHINE TRANSPORT/PARKING

1. Stop and turn off the machine, then press the park pedal (10).
2. While holding the machine in this position, drive it to the appointed parking area.
3. If necessary, in order to manually lift the machine, bend the handlebar (24) and grip the handle (25), then transport the machine to the area where it is to be parked.

AFTER USING THE MACHINE

After working, before leaving the machine:

1. Stop and turn off the machine, then lift the brush/squeegee unit using the pedal (10).
2. Empty the tanks (13).
3. Park the machine as shown in the figure 7; for lowering the handlebar (1) press the lever (8).
4. Remove the brush and squeegees as described in the specific paragraphs of the Maintenance chapter.
5. Charge the battery and carry out the daily maintenance (see the Maintenance chapter).
6. Store the machine in a clean and dry place.

MACHINE LONG INACTIVITY

If the machine is not going to be used for more than 30 days, proceed as follows:

1. Perform the procedures shown in After using the machine paragraph.
2. Remove the battery (27) from the machine as shown in the following paragraph.

REMOVING THE BATTERY

To remove the battery from the machine:

1. Remove the cover (26).
2. Use the battery handle (27) to lift it upwards, then remove the battery from the machine.

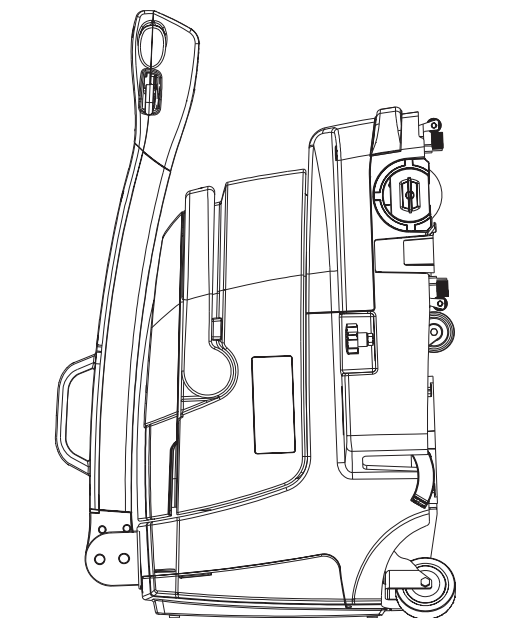


Figure 7

P100938

MAINTENANCE

The lifespan of the machine and its maximum operating safety are ensured by correct and regular maintenance.

The following chart provides the scheduled maintenance. The intervals shown may vary according to particular working conditions.



WARNING!

The procedures must be performed with the machine off and the battery disconnected.

Moreover, carefully read the instructions in the Safety chapter.

All scheduled or extraordinary maintenance procedures must be performed by qualified personnel, or by an authorised Service Center.

This Manual describes only the simplest and most common maintenance procedures.

For other maintenance procedures shown in the Scheduled Maintenance Table, refer to the Service Manual that can be consulted at any Service Center.

SCHEDULED MAINTENANCE TABLE

Procedure	Daily, after using the machine	Weekly	Every six months
Battery charging			
Squeegee bar cleaning			
Brush Cleaning			
Cleaning of the brush compartment and the debris collection tray			
Recovery tank and solution tank rinsing			
Cleaning of intake duct			
Cleaning of the solution dispensers			
Squeegee blades check			
Detergent filter cleaning			
Cleaning of the air filter and gaskets			
Squeegee bar replacement			

BATTERY CHARGING



CAUTION!

Charge the battery when only one LED of the battery symbol is lit (5).

When the battery is discharged, charge is as soon as possible, as that condition makes its life shorter. Check for battery charge at least once a week.

1. Drive the machine to the appointed recharging area.
2. Ensure that the machine is off.
3. Plug the battery charger cable plug (29) into the machine socket and the power supply cable plug into a mains socket (the mains voltage and frequency must be compatible with the battery charger values shown on the data plate).



NOTE

When the battery charger is connected to the electrical mains, all machine functions are automatically cut off.

During charging, one of the 6 LEDs of the battery icon (5) will remain steadily on to indicate the percentage of charging performed, while the other LEDs (to the left of the LED which is on steadily) will flash sequentially.

4. When the 6th LED of the battery icon (5) is lit steadily, battery charging is complete.
5. Disconnect the battery charger from the mains and from the machine socket (29).
6. Open the battery compartment cover (26) and place the battery charger in its tray (28).
7. Close the battery compartment (26).

CHARGING THE BATTERY OUT OF THE MACHINE

1. Remove the battery (27) from the machine as shown in the Removing the Battery paragraph.
2. Place the battery in the appointed recharging area.
3. Plug the battery charger cable plug (B) into the battery socket (A, Fig. 8) and the power supply cable plug into a mains socket (the mains voltage and frequency must be compatible with the battery charger values shown on the data plate).
4. During charging, one of the 6 green LEDs (C) will remain steadily on to indicate the percentage of charging performed, while the other LEDs (to the left of the LED which is on steadily) will flash sequentially.
5. When the 6th LED (C) is lit steadily, battery charging is complete.
6. Disconnect the battery charger from the mains and from the battery.



NOTE

When the battery is not connected to the battery charger, you can see the battery charge level by pressing the button (D) briefly. The number of green LEDs (C) turned on is proportional to the battery charge level percentage.

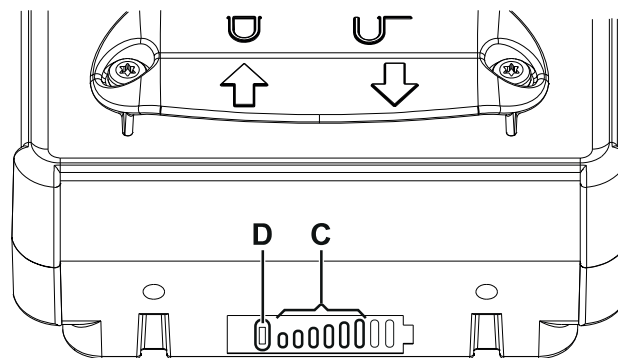
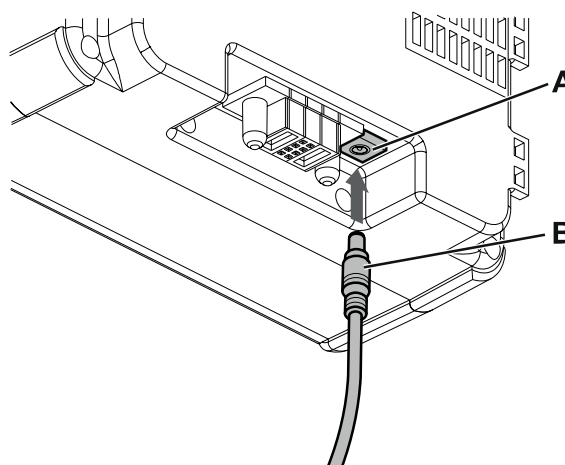


Figure 8

P100939

SQUEEGEE BAR CLEANING



CAUTION!

It is advisable to wear protective gloves when cleaning the squeegee bars because there can be sharp debris.



NOTE

The squeegee bars must be clean and the blades must be in good conditions in order to get a good drying.



CAUTION!

The squeegee bars are fastened to the machine with a snap system and can be easily removed.

1. Ensure that the machine is off.
2. Remove the tanks container (13) from the machine body using the handle (15).
3. Lift the machine body to access the lower part of the cleaning deck (16).
4. Remove the squeegee bars (20) by pulling outwards.
5. Clean and wash the squeegee bars. In particular, clean the compartments (A, Fig. 9) and the vacuum hole (B). Check the blades for integrity, cuts and tears; if necessary replace the squeegee bars.
6. Before installing the squeegee bars, clean the recovery water duct (G, Fig. 10) thoroughly.
7. Install the squeegee bars (20) and make sure they are properly engaged.

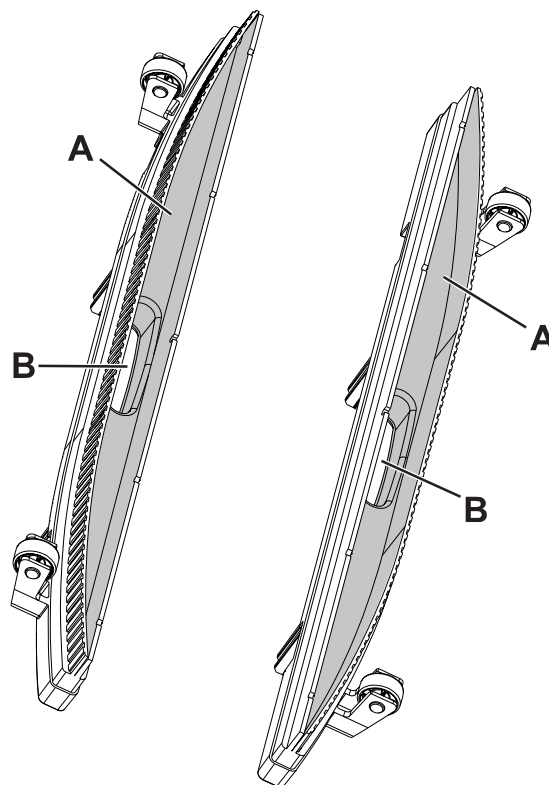


Figure 9

P100940

BRUSH AND BRUSH COMPARTMENT CLEANING

1. Turn the lever (A, Fig. 10) counter-clockwise and remove the brush.
2. Clean and wash the cylindrical brush (18) with water and detergent.
3. Check the brush bristles for integrity and wear; if necessary, replace the brush.
4. Carefully clean the brush compartment (B).
5. Remove the debris collection tray (C), clean it and rinse it with clean water, then put it back in its seat.
6. Disassemble the solution dispensers (D) and clean them with water and detergent, then rinse and reassemble in the relevant housings.
7. Reinstall the cylindrical brush (18) on the drive hub (E) and engage it by turning the lever (F) clockwise.

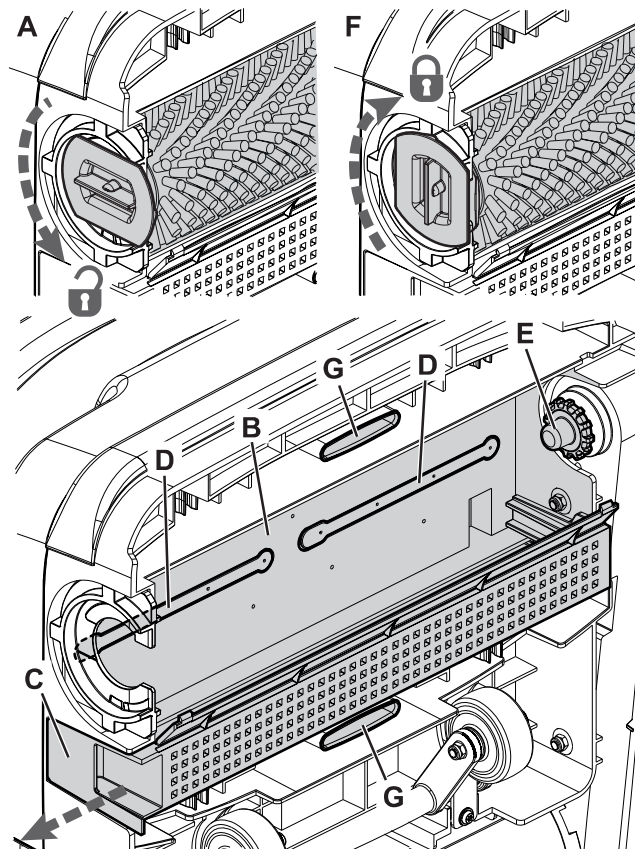


Figure 10

P100941

RECOVERY TANK AND COVER CLEANING

1. Lift the tanks container (13) from the machine body using the handle (15).
2. Remove the cover (A, Fig. 11) and clean it with hot water.
3. Remove the suction grid (B) along with the float and clean them thoroughly.
4. If necessary, remove the body (C), then clean with care and reinstall.
5. Check the recovery tank cover gasket (D) for integrity.



NOTE

The gasket (D) creates the vacuum in the tank that is necessary to vacuum up the recovery water.

If necessary, replace the gasket (D) by removing it from its housing on the cover. When assembling the new gasket, install the joint (E) in the area shown in the figure.

6. Check the air duct gasket (C) conditions. If necessary, replace the gasket.
7. Clean the tank compartment (G) with water and detergent, then rinse carefully.
8. Check that the seating surface (H) of the gasket (D) is clean and adequate for the gasket itself.
9. Reassemble the components.
10. If necessary wash the solution tank with clean water.

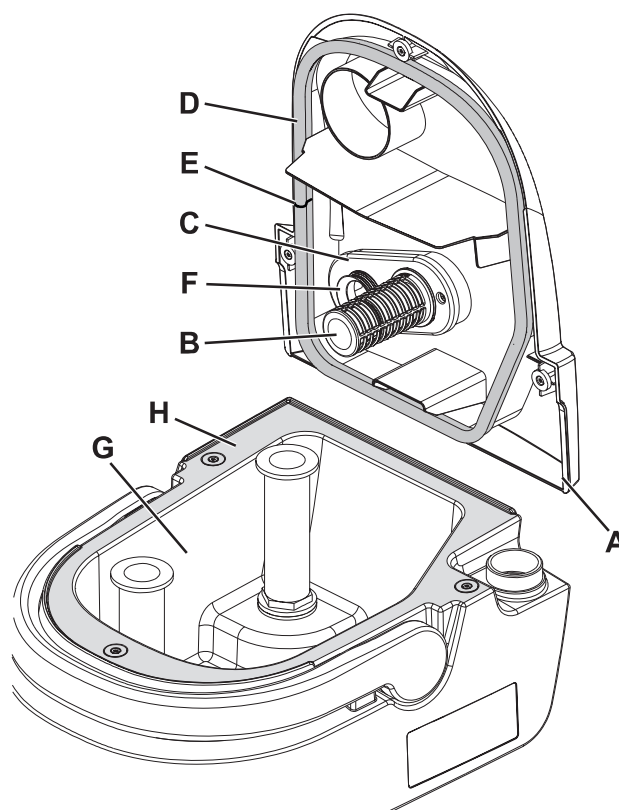


Figure 11

P100942

CLEANING OF THE SOLUTION FILTER, AIR FILTER, GASKETS AND RECOVERY WATER DUCT

1. Remove the tanks container (13) from the machine body using the handle (15).
2. Remove the rubber gasket (A, Fig. 12), then remove the filter strainer (B).
3. Clean them and reinstall in the housing (C).
4. Remove the air filter (D) and clean it.
5. Refit the filter in the housing of the gasket (E).



NOTE

The gaskets (E) and (F) create vacuum in the system that is necessary for vacuuming the recovery water.

6. Check and clean the gasket (E) of the vacuum system motor.
7. Check and clean the recovery water duct gasket (F).
8. Rinse the inside of the duct (G) with water.

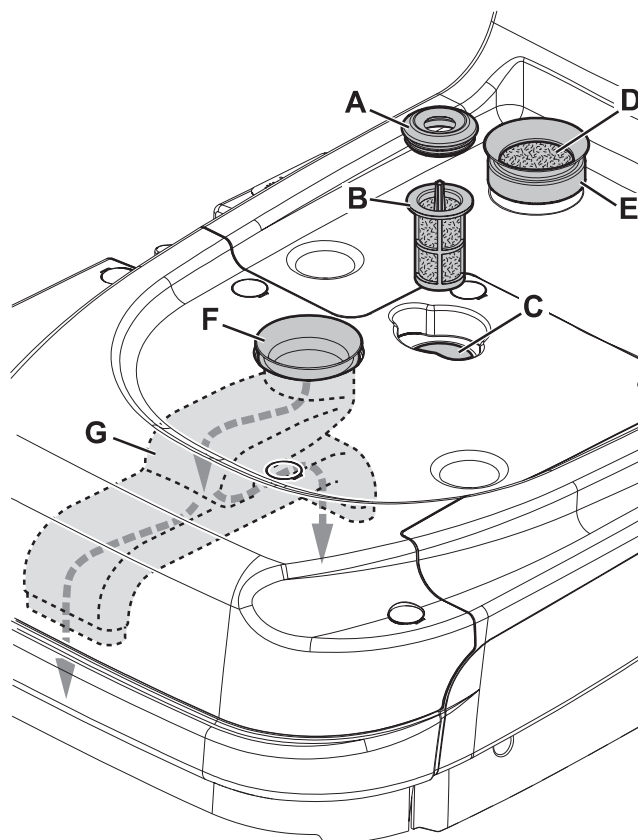


Figure 12

P100943

TROUBLESHOOTING

Trouble	Possible Cause	Remedy
The motors do not turn on; no LED turns on.	The battery is completely discharged.	Charge the battery.
		Change the battery.
	Switch panel broken.	Replace the switch panel. (*)
	Broken grip handle sensors.	Replace the grip handle sensors. (*)
The battery LEDs flash while working	Brush motor overload.	Reduce the brush pressure on the floor.
	There are foreign materials (tangled threads, etc.) preventing the brush from rotating.	Clean the brush hub.
While running, the machine is noisy and it vibrates.	Deformed brush bristles.	Wash the brush with hot water to restore the bristles.
		Do not leave the machine parked without the transport/parking wheels.
The recovery water vacuuming is insufficient.	The recovery tank is full.	Empty the tank.
	The squeegee bars are dirty or the blades are worn or damaged.	Clean and check the squeegee bars.
	The recovery water conduit is dirty.	Clean the conduit with running water.
	The air filter is dirty.	Clean the filter.
The solution flow is insufficient. The solution push-button LEDs flash.	The solution dispensers are clogged.	Clean the solution dispensers.
	Solution tank empty.	Fill the tank.
	The solution filter is dirty.	Clean the filter.
	Water pump fault.	Replace the pump. (*)
The squeegees leave marks on the floor.	There is debris under the squeegee blades.	Remove the debris.
	The squeegee blades are worn, chipped or torn.	Replace the blades.
	Debris collection tray full.	Empty the tray.

(*) This maintenance procedure must be performed by an authorised Nilfisk Service Center.

For further information refer to the Service Manual, available at any Nilfisk Service Center.

SCRAPPING

Have the machine scrapped by a qualified scrapper.

Before scrapping the machine, remove and separate the following materials, which must be disposed of properly according to the Law in force:

- Cylindrical brush
- Plastic hoses and components
- Electrical and electronic components (*)

(*) Refer to the nearest Nilfisk Center especially when scrapping electrical and electronic components.

Machine material composition and recyclability

Type	Recyclable percentage	% weight SC250, Scrubtec 334
Aluminium	100 %	13 %
Electric motors - various	29 %	28 %
Ferrous materials	100 %	6 %
Wiring harness	80 %	5 %
Liquids	100 %	0 %
Plastic - non-recyclable material	0 %	1 %
Plastic - recyclable material	100 %	36 %
Polyethylene	92 %	9 %
Rubber	20 %	3 %