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You can read the recommendations in the user guide, the technical guide or the installation guide for NILFISK CA 410. You'll find the answers to all your questions on the NILFISK CA 410 in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

User manual NILFISK CA 410  
User guide NILFISK CA 410  
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CA 410



BETRIEBSANLEITUNG **D**  
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MANUEL D'UTILISATION **F**  
INSTRUCTIONS D'ORIGINE  
USER MANUAL **GB**  
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CE

909 5685 000  
Edition 4 2009-11

Printed in Hungary

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setting standards



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**Manual abstract:**

Support brosse / plateau support disque 26. Support brosse / plateau support disque 34. Caractéristiques générales Longueur machine Largeur machine avec embouchure Largeur machine sans embouchure Hauteur minimum / maximum machine avec guidon réglable Poids total machine Rayon minimum de braquage Largeur de nettoyage Diamètre roues centrales sur essieu fixe Diamètre brosse / disque Pression roues arrière au sol Pression roulette avant au sol Pression brosse / disque au sol Performances Aspiration Vitesse moteur brosse / plateau support disque Pression acoustique à l'oreille de l'opérateur (ISO 11201, ISO 4871) (LpA) Puissance acoustique émise par la machine (ISO 3744, ISO 4871) (LwA) Niveau de vibrations au bras de l'opérateur (ISO 5349-1) Puissance moteur système d'aspiration Puissance moteur brosse / plateau support disque Pente maximum franchissable Tension système Capacité réservoir solution Capacité réservoir eau de récupération 230 V - 50 Hz 23 litres 21 litres 1 100 W 2% 115 V - 60 Hz 150 tr/mn 87 dB(A) < 2,5 m/s<sup>2</sup> 550 W 550 W CA 410 - 230 volts CA 410 - 230 volts 997 mm 720 mm 570 mm 730 - 836 mm 65 kg 750 mm 430 mm 250 mm 430 - 432 mm 1,0 N/mm<sup>2</sup> 1,9 N/mm<sup>2</sup> 28 kg CA 410 - 115 volts 170 tr/mn CA 410 - 115 volts C1 EV1 FR M1 M2 PL SW1 SW2 Suppresseur Electrovanne eau Cadre Moteur brosse / plateau support disque Moteur système d'aspiration Fiche Interrupteur brosse / plateau support disque Interrupteur système d'aspiration Appuyer sur le bouton-poussoir de brosse / plateau support disque (52) pendant quelques secondes pour permettre l'accrochage de la brosse / plateau support disque. REMARQUE Pour un lavage / séchage correct du sol près du mur, Nilfisk recommande d'approcher le côté droit de la machine, comme illustré dans la figure 1. Enlever la brosse / plateau support disque comme suit : · Avec la brosse / plateau support disque soulevé, porter l'interrupteur de brosse / plateau support disque (52) sur "1" et, après quelques secondes, le porter à nouveau sur "0" en détachant ainsi la brosse / plateau. 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. Nilfisk will not be answerable for damages coming from the non-observance of this prohibition. The User Manual must be kept near the machine, inside an adequate case, away from liquids and other substances that can cause damage to it.

The Declaration of Conformity, supplied with the machine, certifies the machine conformity with the law in force. @The machine model and serial number are marked on the plate (1). @@This information is useful when requiring machine spare parts. @@@@Only original spare parts and accessories must be used. Contact Nilfisk for service or to order spare parts and accessories, specifying the machine model and serial number.

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. These scrubber-dryers are used to clean (scrubbing and drying) smooth and solid floors, in civil or industrial environment, under safe operation conditions by a qualified operator. The scrubber-dryers cannot be used for fitted carpet and carpet cleaning. Forward, backward, front, rear, left or right are intended with reference to the operator's position, that is to say in driving position with the hands on the handlebar (2).

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: Scrubber-dryer User Manual Scrubber-dryer Spare Parts List 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 that may occur in a factory, while working or moving around, are caused by failure to comply with the simplest rules for exercising prudence. A careful and prudent operator is the best guarantee against accidents and is essential for successful completion of any prevention program. It indicates a dangerous situation with risk of death for the operator.

Pay careful attention to the paragraphs marked by this symbol. CONSULTATION It indicates the necessity to refer to the Quick Start Guide before performing any procedure. 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 plug from the electrical mains. This machine must be used by properly trained operators only. Children or disabled people cannot use this machine. Do not wear jewels when working near electrical components. Do not work under the lifted machine without supporting it with safety stands. 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. The power supply cable plug must be connected to an appropriate outlet, which is grounded according to law in force.

Do not tamper with the power supply cable plug. If the power supply cable plug cannot be connected to the outlet, have new grounded outlet installed by a qualified technician, according to the law in force. Before connecting the power supply cable to the electrical mains, check that frequency and voltage, shown on the machine serial number plate (1), match the electrical mains voltage. Do not handle the plug or the machine with wet hands. Turn off all controls before unplugging.

If the power supply cable is damaged, it must be replaced by the Manufacturer or by an authorised Service Centre. To avoid any risk, if the power supply cable is damaged, contact the Nilfisk Service Center or a qualified technician. Do not pull or carry the machine by the power supply cable and never use the power supply cable as a handle.



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Do not close a door on the power supply cable, or pull the power supply cable around sharp edges or corners. Do not run the machine on the power supply cable.

The brushes must not come into contact with the power supply cable. Keep the power supply cable away from heated surfaces. To reduce the risk of fire, electric shock, or injury, do not leave the machine unattended when it is plugged in. Disconnect the machine from the electrical mains when not in use and before performing maintenance procedures. Do not leave the machine unattended without being sure that it cannot move independently. Always protect the machine against the sun, rain and bad weather, both under operation and inactivity condition. Store the machine indoors, in a dry place: This machine must be used in dry conditions, it must not be used or kept outdoors in wet conditions. Before using the machine, close all doors and/or covers. Do not allow to be used as a toy. Close attention is necessary when used near children.

Use only as shown in this Manual. use only Nilfisk's recommended accessories. Take all necessary precautions to prevent hair, jewels and loose clothes from being caught by the machine moving parts. 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. Do not put any can containing fluids on the machine. The machine working temperature must be between 0°C and +40°C. @@ The humidity must be between 30% and 95%. @@@@ Do not use the machine as a means of transport. @@@@ Do not allow any object to enter into the openings.

Do not use the machine if the openings are clogged. @@ Do not remove or modify the plates affixed to the machine. This machine cannot be used on roads or public streets. @@@@ Using other brushes or pads could reduce safety. @@@@ Recovery tank cover (open)

Recovery tank cover gasket Brush/pad-holder support Recovery tank compartment Solution tank filler neck Vacuum grid with automatic shut-off float Recovery water drain hole Vacuum system motor Brush/pad-holder motor Brush/pad-holder deck Machine speed adjusting screw Brush Pad-holder Pad Terminal board box Screw Brush/pad-holder engagement rotation direction In addition to the standard components, the machine can be equipped with the following accessories/options, according to the machine specific use: Brushes/pads of different materials For further information concerning the optional accessories, contact an authorised dealer.

@@ 2). @@ 5. In order not to drag the brush/pad on the floor and leave wet marks, when finishing working, remove the brush/pad-holder from the deck by using the release device (see the procedure in After Using The Machine paragraph), then place it on the support (25). An automatic float shut-off system (36) turns off the vacuum system when the recovery tank (26) is full. The vacuum system shutdown, due to the recovery tank filling, is signalled by an increase in the vacuum system motor noise, moreover the floor is not dried.

CAUTION! If the vacuum system turns off accidentally (for example, when the float is activated because of a sudden machine movement), to resume the operation: turn off the vacuum system by pressing the switch (53), then open the cover (6) and check that the float inside the grid (36) has gone down to the water level. Then close the cover (6) and turn on the vacuum system by pressing the switch (53). When the recovery tank (26) is full, empty it according to the following procedure. Disconnect the power supply cable (21) from the electrical mains and place it on the holder. Empty the recovery tank (26) with the drain hose (16). Then, rinse the tank with clean water. Empty the solution tank (27) by using the drain valve (18). 8. Then, rinse the tank with clean water. After working, before leaving the machine: 1.

remove the brush/pad-holder as follows: · With the brush/pad-holder lifted, turn the brush/pad-holder switch (52) to "I" and, after a few seconds, back to "0", thus releasing the brush/pad-holder. 2. Disconnect the power supply cable (21) from the electrical mains and place it on the holder. Store the machine in a clean and dry place, with the brush/pad-holder and the squeegee lifted or removed. To perform check and maintenance procedures, it may be necessary to remove the recovery tank (26) as shown below. @@3) in the area (B) and slightly raise it. 8. Disconnect the vacuum hose (C) from the tank, then remove the tank (A) with the hoses (D) and (E). If the machine is not going to be used for more than 30 days, proceed as follows: 1. Store the machine in a clean and dry place.

After the first 8 hours, check the machine fastening and connecting parts for proper tightening. 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, which are to be defined by the person in charge of the maintenance. WARNING! Maintenance procedures must be performed with the machine switched off and the power supply cable disconnected from the electrical mains.

This Manual describes only the easier and most common maintenance procedures. NOTE For other maintenance procedures shown in the Scheduled Maintenance Table, refer to the Service Manual that can be consulted at any Service Center. Procedure Squeegee cleaning Brush cleaning Tank and vacuum grid cleaning Squeegee blade check and replacement Solution filter cleaning Screw and nut tightening check Vacuum system motor carbon brush check and replacement (1) (2) Daily, after using the machine Weekly Every six months Yearly (1) And after the first 8 working hours. NOTE The squeegee must be clean and its blades must be in good conditions in order to get a good drying. It is advisable to wear protective gloves when cleaning the squeegee because there may be sharp debris.

@@ Lower the squeegee with the lever (19). Wash and clean the squeegee. Check the front blade (C) and the rear blade (D) for integrity, cuts and tears; if necessary replace them (see the procedure in the following paragraph). 4) and the rear blade edges (I) lay down on the same level, along their length; if necessary adjust the height according to the following procedure: · Remove the mounting springs (F), then adjust the front blade (C) and the rear blade (D). Check the front blade (C) and rear blade (D) for integrity, cuts and tears; if necessary replace them as shown below. Also check the front corner (H) of the rear blade for wear; if it is worn, overturn the blade to replace the worn corner with the other one (I), if it is integral. If the other corner is worn too, replace the blade according to the following procedure: · NOTE It is advisable to wear protective gloves when cleaning the brushes because there may be sharp debris.



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Clean the brush with water and detergent. @@Open the cover (6), then clean and wash the cover, the tanks (26 and 27) and the vacuum grid (36) with clean water. Drain the water from the tanks with the drain hose (16) and the valve (18).

If necessary, release the fasteners (B, Fig. 5) and open the grid (A); recover the float (C), clean all the components and then reinstall them. If necessary replace the gasket (D) by removing it from its housing (E). When assembling the new gasket, install the joint (F) in the rear central area, as shown in the figure. NOTE The hole (28), allowing to compensate the air in the cover air gap, contributes to create vacuum in the tank. 8. Close the recovery tank cover (6). @@Clean and install them on the support (C). @@@@If necessary, perform the following procedure. @@ Turn the adjusting screw (41) counter-clockwise to increase the machine speed.

Turn the adjusting screw (41) clockwise to decrease the machine speed. After adjusting, tighten the screw (46). install the recovery tank as shown in Use chapter. With the machine ready to operate, perform hands-on tests of the machine and, if other adjustments are necessary, repeat steps 1 to 4. Trouble The motors do not turn on Possible Cause The power supply cable (21) is faulty or disconnected from the electrical mains The recovery water tank (26) is full The vacuum grid (36) is clogged or the float is closing The vacuum hose (22) is disconnected from the squeegee (11) or it is damaged The dirty water vacuuming is insufficient The squeegee (11) is dirty, or the squeegee blades (13, 14) are worn or damaged The recovery water tank cover (6) is not properly closed, or the gasket (32) is damaged The recovery water tank (6) is dirty (clogged drain hole) The solution flow is insufficient The solution filter (20) is dirty There is debris under the squeegee blades (13, 14) The squeegee blades (13, 14) are worn, chipped or torn Remedy Replace or connect the cable Empty Clean the grid and check the float Connect Clean the squeegee or replace the blades Check and/or clean the seating surface or replace the gasket Clean Clean Remove the debris Replace the blades The squeegee leaves marks on the floor For further information refer to the Service Manual, available at any Nilfisk Service Center. Before scrapping the machine, remove and separate the following materials, which must be disposed of properly according to the Law in force: Brush Pad Electrical and electronic components (\*) (\*) Refer to the nearest Nilfisk Center especially when scrapping electrical and electronic components. .



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