

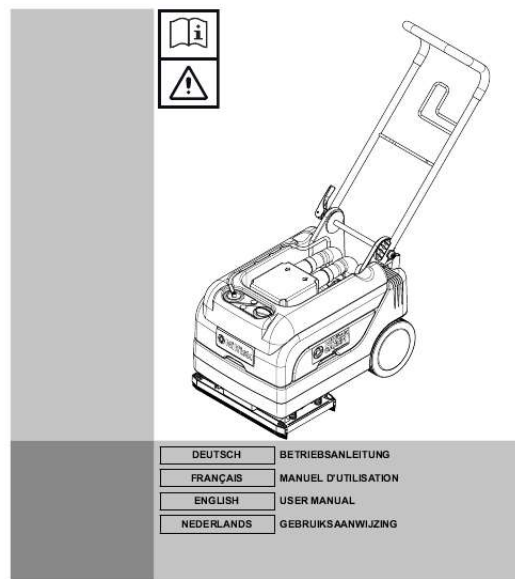


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You can read the recommendations in the user guide, the technical guide or the installation guide for NILFISK CA 331. You'll find the answers to all your questions on the NILFISK CA 331 in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

User manual NILFISK CA 331
User guide NILFISK CA 331
Operating instructions NILFISK CA 331
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CA 331



Nilfisk
setting standards

CE
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Manual abstract:

The machine is equipped with two turning brushes for a cleaning width of 330 mm. Front and rear squeegees clean out the floor, while a vacuum system collects the dirty water, all in one wipe. 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.

NOTE Two copies of the original declaration of conformity are provided together with the machine documentation. 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. @@ 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. NOTE It indicates a remark related to important or useful functions. CONSULTATION It indicates the necessity to refer to the User Manual before performing any procedure.

Specific warnings and cautions to inform about potential damages to people and machine are shown below. DANGER! Always disconnect the power supply cable when the machine is not in use, before performing maintenance procedures, before replacing the brush/pad-holder and before opening any access panel. This machine must be used by properly trained and authorised personnel 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. 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.

@@ Do not handle the plug or the machine with wet hands. Turn off all controls before unplugging. @@@@ 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.

@@@@ store the machine indoors, in a dry place. 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.

@@@@ Do not use the machine in particularly dusty areas. @@@@ Do not put any can containing fluids on the machine. @@@@ 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. 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. Has been left outdoors exposed to bad weather conditions · Is wet or has been dropped into water turn it off immediately and contact the Nilfisk Service Center or a qualified technician. 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. Carefully read all the instructions before performing any maintenance/repair procedure. 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 (electronic components, etc.), which are subject to standards that require disposal in special centres (see the Scrapping chapter). Serial number plate/technical data/conformity certification Handlebar Handlebar tilting adjustment lock/unlock lever Control panel Program selection knob Program: brushes - vacuum system - solution flow activation Program: brushes - solution flow activation Program: vacuum system activation Program: fitted carpet cleaning and floor wiping (optional) Main switch Power supply cable holder Wheels on fixed axle Brush and squeegee-holder deck Power supply cable Solution hose quick coupling (to the pump) Front squeegee 13.



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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 Fitted carpet cleaning and floor wiping For further information concerning the optional accessories, contact an authorised Retailer.

General Min/max machine length at the handlebar Machine width with squeegee Machine - brush deck width Maximum machine height with adjustable handlebar Total machine weight Cleaning width Central wheel diameter Brush/pad diameter Brush/pad number Squeegee system Straight squeegee width Squeegee blades type Wheel pressure on the floor Brush/pad pressure on the floor with empty/full solution tank CA 331 - 230 Volts CA 331 - 115 Volts 715/1,120 mm 385 mm 385 mm 1,000 mm 22 kg 330 mm 180 mm 165 mm No. Performance Vacuuming Solution flow Theoretic/real productivity Solution autonomy Brush/pad speed Sound pressure level at workstation (ISO 11201, ISO 4871) (LpA) Machine sound pressure level (ISO 3744, ISO 4871) (LwA) Vacuum system motor power Brush/pad motor power Gradeability Solution tank capacity Recovery tank capacity Vibration level at the operator's arms (ISO 5349-1) Power supply cable length On some points of the machine there are some adhesive plates indicating: DANGER WARNING CAUTION CONSULTATION While reading this Manual, the operator must pay particular attention to the symbols shown on the plates. Do not cover these plates for any reason and immediately replace them if damaged. According to the type of floor to be cleaned, it is possible to replace the brushes (A) with the pad-holders with pads (B). Lower the machine by using the handlebar (2).

Types of brushes available Concrete Terrazzo floor Ceramic tiles/quarrystones General cleaning: Marble Vinyl tiles Rubber tiles Terrazzo floor Ceramic tiles/quarrystones Polishing: Marble Vinyl tiles Rubber tiles Prolite Prolene White Pad Red Pad Brown Pad Use the filler plug (18) to fill the tank (14) with a solution suitable for the work to be performed. Do not fill the solution tank completely, leave a few centimetres from the edge. Always follow the dilution instructions on the label of the chemical product used to prepare the solution. Adjust the handlebar (2) with the knobs (3) to reach a comfortable position.

Drive the machine to the working place by pushing it with the hands on the handlebar (2).

Before connecting the power supply cable to the eLift the solution tank (14a) and, if necessary, drain it and clean it as shown in Use chapter. open the transparent cover (A , Fig. 3) and clean it with care. Clean the vacuum grid (B) with care. Empty and clean the recovery tank (16) as shown in Use chapter.

@@@ remove the solution hose plug (A , Fig. @@If necessary, remove the filter and replace it with a new one. Trouble The motors do not turn on.

@@Dirty water vacuuming is insufficient or there is no vacuuming. The squeegees (12 - 13) are dirty or the squeegee blades are worn or damaged.

The driving belt is loose or torn. 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. 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. Plaatje met serienummer / technische gegevens / conformiteitsmarkering Stuur Hendel voor deblokkeren/blokken afstelling kanteling stuur Controle- en bedieningspaneel Hendel programmakeuze Programma: inschakeling borstels - inschakeling aanzuigsysteem - opening toevoer reinigingsmiddel Programma: inschakeling borstels - opening toevoer reinigingsmiddel Programma: inschakeling aanzuigsysteem Programma: Reiniging tapijt en trekkers (optioneel) Hoofdschakelaar Steun voedingskabels Wielen op vaste as Schrobdek borstelhouder en trekkers Voedingskabel Snelkoppeling voedingsleiding reinigingsmiddel op de pomp Trekker voor 13. .*



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