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General notes



Read these original operating instructions and the enclosed safety instructions before using the device for the first

time. Proceed accordingly.

Keep both books for future reference or for future own-

Function

This scouring and vacuum machine is used for wet cleaning or polishing of level floors.

The device can be adjusted to suit the respective cleaning task by adjusting the water quantity, detergent volume and travel speed. The detergent is dosed by adding it to the fresh water tank or via an optional dosing device (DOSE).

Note

The device can be equipped with various accessories to suit the respective cleaning task. Request a copy of our catalogue or visit our Internet website at www.kaercher.com.

Intended use

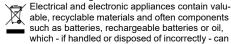
This device is suitable for commercial and industrial use, e.g. in hotels, schools, hospitals, factories, shops, offices, and rental companies. Use the device only in accordance with the information in these operating instructions.

- The device may only be used for cleaning smooth surfaces that are insensitive to water and polishing.
- The device is designed for indoor use.
- The operational temperature range is between +5 °C and +40 °C.
- The device is not suitable for cleaning frozen floors (e.g. in cold stores)
- The device is suitable for a maximum water height of 1 cm. Do not drive into an area if there is a danger of exceeding the maximum water height.
- When using chargers or batteries, only the components approved in the operating instructions may be used. A different combination must be confirmed by the responsible charger and/or battery supplier.
- The device is not intended for cleaning public traffic routes.
- The device must not be used on pressure-sensitive floors. Take into account the permissible load per unit area of the floor. The load per unit area caused by the device is specified in the technical data.
- The device is not suitable for use in potentially explosive environments.
- The device is approved for operation on surfaces with a maximum slope (see chapter "Technical Da-

Environmental protection



The packing materials can be recycled. Please dispose of packaging in accordance with the environmental regulations.



able, recyclable materials and often components such as batteries, rechargeable batteries or oil, which - if handled or disposed of incorrectly - can pose a potential threat to human health and the environ-

ment. However, these components are required for the correct operation of the appliance. Appliances marked by this symbol are not allowed to be disposed of together with the household rubbish.

Notes on the content materials (REACH)

Current information on content materials can be found at: www.kaercher.com/REACH

Accessories and spare parts

Only use original accessories and original spare parts They ensure that the appliance will run fault-free and

Information on accessories and spare parts can be found at www.kaercher.com.

Scope of delivery

Check the contents for completeness when unpacking. If any accessories are missing or in the event of any shipping damage, please notify your dealer.

Safety instructions

Before using the device for the first time, read and observe these operating instructions and the accompanying brochure: Safety instructions for brush cleaning devices, No. 5.956-251.0.

The device is approved for operation on surfaces with a specified limited slope (see chapter "Technical Data").

WARNING

The device can tip over

Risk of injury

Only operate the device on surfaces that do not exceed the permitted slope (see chapter "Technical Data").

WARNING

Risk of accident due to incorrect operation

People can be injured.

Operators must be properly trained on how to use this machine.

The device may only be operated when the hood and all covers are closed.

Safety devices

CAUTION

Missing or modified safety devices

Safety devices are provided for your own protection. Never modify or bypass safety devices.

Safety switch

For immediate shutdown of all functions: Set the safety switch to "0".

- The device brakes hard when the safety switch is switched off.
- The safety switch acts directly on all device functions

Seat switch

If the operator leaves the seat during work or while driving, the seat switch switches off the engine after a short delay.

Symbols on the device



∧CAUTION Risk of crushing

Hands can be trapped when pivoting down the waste water tank.

Do not hold any parts of your body between the tank and the device when pivoting the waste water tank down.



∆DANGER

Danger of accident

On slopes, there is an increased risk of tipping over at high speed.

Drive slowly downhill.

Do not turn on a slope

When driving fast, avoid jerky steering with a large steering angle.



∧DANGER Danger of electric shock

Touching the battery poles during

the charging process carries a risk of injury from high electrical voltage

Do not remove the pole protection caps on the battery poles. Ensure correct installation of the pole protection caps.

Additionally for devices with an overhead guard

∆DANGER

Danger of accident



The overhead guard is heavy and pulls the waste water tank backwards when pivoting. The unit can tip over and injure persons. Pivot the waste water tank slowly and hold it firmly to control the speed.



∆WARNING

Crushing hazard

Strong forces act upon the waste water tank when pivoting forwards.

Make sure that there are no body parts between the waste water tank and the unit when pivoting the waste water tank forwards.



ATTENTION

Danger of tipping over

The overhead guard increases the danger of tippina.

Drive on slopes and gradients slowly and steer carefully.

Warning symbols

Observe the following warnings when handling the bat-



Observe notes in the instructions for the battery, on the battery and in these operating instructions.



Wear eye protection.



Keep acids and batteries away from children.



Risk of explosion



Fire, sparks, open flames and smoking are prohibited.



Risk of acid burns



First aid.



Warning



Disposal



Do not throw batteries in the bin.



Device description

Overview of the unit

Illustration A

- (1) Control panel
- (2) Steering wheel
- (3) Detergent suction hose (Dose variant only)
- (4) * Detergent canister (Dose variant only)
- (5) * Warning light
- (6) Storage area for "Homebase Box" cleaning set
- (7) Waste water drain hose
- (8) * Waste water tank flushing system water connec-
- (9) Coarse dirt filter
- (10) * Waste water tank flushing system
- (1) Waste water tank cap
- (12) Float
- (13) Fluff filter
- (14) Waste water tank
- (15) Turbine screen (under the float)
- (16) * Mop holder
- (17) * Tool holder
- (18) Suction hose

- (19) Suction bar
- 20) Suction bar clamping lever
- (21) Waste water tank cap
- (22) Fresh water tank filling hole
- 23) Filling system
- (24) Battery connector (with external charger) Charger mains cable (with internal charger)
- 25) Accelerator pedal
- 26) Daytime running light
- (27) * Work light
- (28) * Side scrubbing deck
- 29 Side brush (SB variant only)
- 30) Squeegee blade adjustment wheel (D cleaning head only)
- (31) Cable hooks
- (32) Cleaning head
- 33) Squeegee blade
- (34) Bearing cover (for brush replacement)
- (35) Brush replacement pedal (D cleaning head only)
- (36) Seat (with seat switch)
- (37) Seat adjustment lever
- (38) Battery
- (39) Type plate
- (40) Coarse dirt container (only with R cleaning head)
- (41) Fresh water tank cap with fresh water filter
- * optional

Colour coding

- Control elements for the cleaning process are yellow.
- Control elements for maintenance and servicing are light grey.

Control panel

Illustration B

- (1) Horn
- (2) Driving direction switch
- (3) Program switch
- (4) Safety switch
- (5) * Side scrubbing deck/side brush switch
- (6) Intelligent Key
- (7) Display
- (8) Info button
- * optional

Program switch

Illustration C

- 1) OFF
 - Device is switched off.
- (2) Transport journey Drive to the operating location.
- (3) Eco program

Clean the floor wet (with a reduced amount of water and a reduced brush speed) and vacuum up waste water (with reduced suction power).

- (4) Scour and vacuum
 - Clean the floor wet and vacuum up waste water.
- (5) Increased brush contact pressure Clean the floor wet (with increased brush contact pressure) and vacuum up waste water.
- (6) Scouring / pre-cleaning without vacuuming Clean the floor wet and let the detergent act.
- Vacuuming
- Vacuum up the dirty waste.
- 8 Polishing

Polish the floor at a high brush speed without applying liquid.

Suction bar holder

When driving through narrow spaces, the suction bar can be removed and hung in one of the openings on the lid of the waste water tank.

Illustration D

- (1) Suction bar
- (2) Mounting point

Symbols on the device



Handle for pivoting up the waste water tank



Lashing point

* Mop holder



Filling system water connection



* Waste water tank flushing system water



Fresh water tank drain opening



Waste water tank drain opening



optional

Overhead guard (option)

The overhead guard protects the driver of the device from falling objects

On devices with a overhead guard, the waste water tank is equipped with a safety lock. This safety lock prevents the waste water tank from pivoting back unintentionally through forces acting on the overhead guard.

Illustration E

- Overhead guard
- (2) Retaining plate
- (3) Locking screw M8x16, washer

Pivoting the waste water tank backwards

- Empty the waste water tank.
- Unscrew the locking screw
- Hold the waste water tank firmly and slowly pivot it backwards

Pivoting the waste water tank forwards

WARNING

Risk of crushing

Body parts can become trapped between the device and the waste water tank.

Make sure that there are no body parts between the device and the waste water tank when pivoting forward.

- Hold the waste water tank firmly and slowly pivot it forward.
- Screw in and tighten the locking screw.

Installation

Batteries Recommended battery sets

Description	Order no.	Volume (m ³)*	Airflow (m ³ /h)**
Battery set 240 Ah, trough, low maintenance	4.035- 987.7	27	10.8
Battery set 180Ah, trough, low maintenance	4.035- 988.7	20.25	8.1
Battery set 240Ah, 6 blocks, maintenance-free	4.654- 306.7	6.975	2.79
Battery set 180Ah, 6 blocks, maintenance-free	4.654- 307.7	5.175	2.07
Battery set 285 Ah AGM	4.654- 057.7	8.91	3.56
Battery set 170 Ah AGM	4.654- 061.7	24.75	9.9

- * Minimum volume of the battery charging room
- * Minimum airflow between battery charging room and environment

Maximum battery dimensions

Layout	A*	B**
Length	244 mm	312 mm
Width	190 mm	182 mm
Height	275 mm	365 mm

- as with 4.654-306.7
- ** as with 4.654-307.7

Installing and connecting batteries

With the "Pack" variant, the batteries are already installed

CAUTION

Removing and installing the batteries

Unstable machine position

Ensure that the machine is positioned stably when removing and installing the batteries.

ATTENTION

Incorrect connection polarity

Destruction of the control electronics

Take care to ensure the correct polarity when connecting the batteries.

ATTENTION

Deep discharge

Risk of damage

Charge the batteries before starting the device.

Drain the waste water.

Note

For devices with a overhead guard, always observe the notes in the "Overhead guard" chapter.

- Pivot the waste water tank to the rear.
- Fit the batteries in the device

Illustration F

Illustration G

Illustration H

Illustration I Illustration J

Illustration K Connect the battery terminals using the connection cables provided.

- Clamp the supplied connecting cable to the (+) and (-) battery terminals that are still free.
- Check for correct installation of the pole protection caps.
- Connect the device-side battery connector to the battery-side battery connector.
- Pivot the waste water tank forwards and close it. Set the battery type (see chapter "Gray Intelligent Key").

ATTENTION

Risk of damage

The battery can be damaged by deep discharge. Charge the battery before initial startup of the device.

Charging the battery

Note

The device has deep discharge protection, i.e. the device can only be driven when the permitted minimum capacity level is reached. "Charge Battery" and "Charge

Battery" appear in the display. When using other batteries (e.g. from other manufacturers), the deep discharge protection for the respective battery must be reset by Kärcher Customer Service.

Inappropriate use of the charger

Electric shock

Adhere to the mains voltage and fuse values specified

on the device type plate. Only use the charger in dry rooms with sufficient ventilation.

Flammable gases are generated when the battery is

charged

Risk of explosion Only charge the batteries in a suitable room. The room must have a minimum volume depending on the battery type and an adequate air exchange rate with a minimum air flow (see "Recommended batteries").

ATTENTION

Accumulation of dangerous gases under the tank during the charging process

Risk of explosion

Pivot the waste water tank upwards before charging low-maintenance batteries.

The average charging time is approx. 10-12 hours. The recommended chargers (for the respective batteries) are electronically controlled and stop the charging process automatically.

The device cannot be used during the charging pro-

Drive the device directly to the charger and do not drive on slopes

Internal charger

Connect the mains cable to the IEC connector on the device.

Illustration L

- (1) IEC connector for charging cable
- 2. Plug the mains plug of the internal charger into the

A battery symbol and the charging state of the batteries are shown in the display. The display lighting goes out.

Note

All cleaning and driving functions are blocked during the charging process.

When the battery is fully charged, the display shows "Battery Full!"

- Unplug the charger mains plug from the mains socket after charging.
- Wind the mains cable onto the cable holders.

External charger

ATTENTION

Using an unsuitable charger Risk of damage

Do not connect the charger to the device-side battery

Use only a charger suitable for the type of battery installed.

Read the operating instructions of the charger manufacturer and observe the safety instructions in particular. Note

For devices with a overhead guard, always observe the notes in the "Overhead guard" chapter.

- Empty the waste water tank.
- Set the safety switch to "0"
- Pivot the waste water tank to the rear.
- Pull out the device-side battery connector.
- Connect the battery-side battery connector to the charger.
- 6. Plug the mains plug of the charger into the socket.
- Carry out the charging process in accordance with the operating instructions for the charger.
- Connect the device-side battery connector to the battery-side battery connector.
- Pivot the waste water tank forwards.

Low-maintenance batteries (wet batteries)

DANGER

Refilling discharged batteries with water

Danger of acid burns from escaping acid, destruction of

Wear safety goggles, protective clothing and protective gloves when handling the battery acid.

Observe the applicable regulations.

Immediately rinse off any splashed acid from the skin or clothing using copious amounts of water.

ATTENTION

Using water with additives

Defective batteries, loss of warranty eligibility Top up the batteries using only distilled or desalinated water (EN 50272-T3).

Do not use any foreign additives, so-called enhancing agents, because this will invalidate the warranty.

1. Add distilled water one hour before the charging

- process comes to an end. Observe the correct acid . level according to the battery label. All cells must produce gas at the end of the charging
- Clean up any spilled water. To do this, proceed as described in the Care and maintenance chapter in the "Cleaning the batteries" section.

Notes on initial charging

Note

The controller does not yet recognize the battery type installed when initially charging the battery. The battery

indicator then still works imprecisely.

A "V" to the right of the bar on the battery display indicates that initial charging has not yet been carried out.

- Charge the batteries until the display shows the maximum charging state.
- After initially charging the batteries, use the device until the deep discharge protection switches off the brush drive and suction.
- Then fully and correctly charge the batteries.

 The "V" to the right of the battery indicator disappears after initial charging.

Note

If a battery type is selected in the battery menu, the procedure described above must be carried out again. This is also the case if the battery type that has already been set is selected again.

Battery indicator

The charging state of the batteries is shown on the control panel display.

- The length of the bar shows the charging state of the battery
- During the last 30 minutes, the remaining operating time is displayed in minutes.

Removing the battery

CAUTION

Removing and installing the batteries

Unstable machine position

Ensure that the machine is positioned stably when removing and installing the batteries.

For devices with a overhead guard, always observe the notes in the "Overhead guard" chapter.

- Set the safety switch to "0".
- Drain the waste water.
- Pivot the waste water tank to the rear.
- Pull out the battery plug.
- Disconnect the cable from the minus terminal at the battery.
- Disconnect the remaining cables from the batteries.
- Remove the batteries
- Dispose of the used batteries in accordance with statutory provisions.

Unpacking

- Remove the packaging film.
- Remove the strap.
- 4 bottom boards of the pallet are fastened with screws. Unscrew these boards.
- Position the boards on the edge of the pallet and align them in front of the wheels on the device. Illustration M
- (1) Board
- 2 Bar
- Secure the boards with the screws.
- Slide the support bars provided in the packaging un-6. der the ramp.
- Remove the wooden strips in front of the wheels

Push the device off the pallet

With all device variants except "low wheel pressure", pull the brake lever on the front wheel and insert a coin between the lever and the brake.

Illustration N

- (1) Front brake lever (all device variants except B 150 low wheel pressure)
- 2 Rear brake lever (device variants Adv and B 150 low wheel pressure only)
- With the device variant "Adv" and "low wheel pressure" repeat the procedure on the rear axle.
- Push the device slowly off the ramp.

DANGER

Danger of accident

The device has no braking effect when the brakes are

Remove the coins immediately after the device is pushed off the pallet.

Remove the coins between the lever and the housina

Driving off the pallet

The batteries must be installed and charged in order to drive off the pallet.

- Insert the Intelligent Key into the control panel.
- Set the safety switch to position "1"
- Set the program switch to transport travel.
- Set the travel direction switch to "Forward".
- Depress the accelerator pedal.
- Drive the device slowly off the pallet. Set the safety switch to "0".

Installing the cleaning head

Installation of the cleaning head is described in the chapter "Maintenance tasks".

Note

The cleaning head is already installed on some models.

Installing he brushes

The installation of the brushes is described in the chapter "Maintenance work".

Installing the suction bar

- Pivot both clamping levers upwards. Illustration O
- (1) Suction hose
- (2) Suction bar suspension
- (3) Suction bar
- (4) Clamping lever
- Insert the suction bar in the suction bar mount.
- Pivot both clamping levers downwards.

Operation

DANGER

Falling objects

Risk of injury

Do not used the device without an overhead guard to protect against falling objects in areas in which there is a possibility of operators being hit by falling objects.

ATTENTION

Risks during operation

Risk of injury

In the event of danger, set the safety switch to "0".

Setting the driver's seat

- 1. Operate the seat adjustment lever and move the seat to the desired position.
- Release the seat adjustment lever and latch the seat into position.

Switching the device on

- Sit in the driver's seat.
- 2. Insert the Intelligent Key.
- Set the safety switch to "1".
- Turn the program switch to the desired function.
- If one of the displays below appears on the display. take your foot off the accelerator pedal, set the safety switch to "0" and carry out the necessary maintenance work.

Display	Activity
Maintenance Suction Bar	Clean the suction bar.
Maintenance Brush Head	Check the brushes for wear and clean them.
Maintenance Suction Slice	Check the suction lips for wear and correct adjustment.
Maintenance Suction Filter	Clean the turbine screen.
Maintenance Wa- ter Filter	Clean the fresh water filter.

- Press the Info button.
- Reset the counter for the corresponding maintenance (see "Grey Intelligent Key / Reset maintenance counter")

Note

If the counter is not reset, the maintenance display appears again each time the device is switched on.

Switching on the light

Daytime running light The daytime running light is in operation when the device is switched on.

Work light (option)

- Set the program switch to transport travel.
- Press the Info button.
- Turn the Info button until "Switch Menu" is dis-3. played.
- Press the Info button. Turn the Info button until "Work Light" is highlighted.
- Press the Info button.

Checking the parking brake

△ DANGER

Defective parking brake

Danger of accident

Before each operation, check the function of the parking

- brake on level ground.
- Switch the device on. Set the travel direction switch to "Forward".
- Set the program switch to transport travel.

Press the accelerator pedal lightly. The brake must audibly unlock. The appliance must roll easily on a plane surface.

Release the accelerator pedal. The brake must audibly lock. If this is not the case, take the device out of operation and call Customer Service.

Driving

↑ DANGER

Lack of braking

Danger of accident

Before using the device, it is essential to check the function of the parking brake. Never use the device if the parking brake does not work.

DANGER

No braking effect during operation

If the device no longer has any braking effect during operation, proceed as follows:

If the device does not come to a standstill on a ramp with a gradient of more than 2% when you release the accelerator pedal, for safety reasons you may only set the safety switch to position "0" if you have checked the cor-

rect mechanical function of the parking brake before starting up the device.

After reaching a standstill, put the device out of operation and call Customer Service

Observe the maintenance instructions for brakes.

△ DANGER

Careless driving

Danger of tipping over Only drive up and up gradients in the travel direction and across the travel direction up to maximum gradients of 10% (Adv 15%).

Do not turn up or down gradients.

Drive slowly in corners and on wet ground.

Only drive the device on stable ground.

Increased risk of tipping over for devices with an overhead guard

A risk of tipping over exists if the overhead guard collides with obstacles.

Drive more carefully when using a device with an overhead guard.

Note the maximum headroom at the operating location. The height of the device is specified in the "Technical data" chapter.

∧ WARNING

Risk of injury

Move carefully so that your head does not hit the overhead guard when climbing on board the device.

Note

The travel direction can be changed while driving. This means that very dull spots can be polished by moving back and forth several times.

- Assume a seated position.
- 2 Insert the Intelligent Key.
- Turn the safety switch to "1".
- Set the program selector switch to "Transport trav-4.
- Set the direction of travel using the drive direction button on the control panel.
- 6. Specify the travel speed by pressing the accelerator pedal
- Release the accelerator pedal. The device stops.

The driving motor is switched off in the event of an overload. A fault message appears on the display. If the controller overheats, the affected power unit is switched off.

- Allow the device to cool down for at least 15 minutes.
- Set the program switch to "OFF", wait briefly and set to the desired program.

Filling with fresh water

Filling with fresh water via the filling system

- Connect the water hose to the connection nozzle of the filling system (maximum water temperature 50 °C)
- Open the water inlet.
- Monitor the device, the automatic filling system interrupts the water supply when the fresh water tank
- Close the water inlet.
- Remove the water hose.

Filling fresh water

- Open the fresh water tank cap. Fill with fresh water (max. 50 °C) to 15 mm below 2. the upper edge of the tank.

Adding detergent to the detergent tank followed by water can lead to excessive foaming.

Fill the fresh water tank completely before initial startup in order to vent the water pipe system.

Remove the fresh water tank cap

Filling with detergent Notes on detergents

WARNING

Unsuitable detergents

Health risk, damage to the device

Use only recommended detergents. The operator carries all increased risks relating to operational safety and increased risk of accidents if using other detergents. Use only detergents free of chlorine, solvents, salt and hydrofluoric acid

Adhere to the safety instructions stated on the detergent packaging.

Note

Do not use heavily foaming detergent.

Recommended detergents

Application	Detergent
Maintenance cleaning of all water- resistant floors	RM 746 RM 756 RM 780
Maintenance cleaning of polished hard surfaces (e.g. granite)	RM 755 es

Application	Detergent
Maintenance cleaning, intermediate cleaning and basic cleaning of industrial floors	RM 69 Industrial cleaner
Maintenance cleaning and basic cleaning of fine stone tiles	RM 753
Maintenance cleaning of tiles in sanitary areas	RM 751
Coating removal on all alkaline-resistant floors (e.g. PVC)	RM 752
Coating removal on linoleum floors	RM 754

Filling detergent via the dosing device

Only with DOSE variant:

Detergent is added to the fresh water on the way to the cleaning head by a dosing device.

1. Fill the detergent into the detergent canister.

Note

A maximum of 3% detergent can be added with the dosing device. If the dosage is higher, the detergent must be added to the fresh water tank.

ATTENTION

Danger of clogging

When adding detergent to the fresh water tank, the detergent can dry out and disrupt the function of the dosing

Rinse the device with clear water after adding the detergent to the fresh water tank: Select a cleaning program with water application, set the water quantity to the highest value, set the detergent dosage to 0.

Note

The device has a fresh water level indicator on the display. Detergent dosing is also stopped when the fresh water tank is empty. The cleaning head continues to work without supply of liquid.

Filling the detergent into the fresh water tank

Fill the detergent into the fresh water tank Note: The lid for the filling hole of the fresh water tank can be used to measure the detergent. It has a measuring scale marked on the inner side.

Adjusting parameters (yellow Intelligent key)

The parameters for the various cleaning programs are preset in the device.

Individual parameters can be changed depending on the authorization of the yellow Intelligent Key.

The modified parameters only remain in effect until a different cleaning program is selected with the program switch.

A grey Intelligent Key must be used for making adjustments if parameters are to be changed permanently. This setting procedure is described in the section "Grev Intelligent Key".

Note

Almost all displayed texts regarding parameter settings are self-explanatory. The only exception is the FACT pa-

- Fine Clean: Low brush speed for removing grey film from fine stone.
- Whisper Clean: Medium brush speed for mainte-
- nance cleaning with reduced noise level. Power Clean: High brush speed for polishing, crystallizing and sweeping.
- Set the program switch to the desired cleaning pro-
- Turn the Info button until the desired parameter is displayed.
- Press the Info button.
- The adjusted value flashes.
- Set the desired value by turning the Info button.
- Confirm the changed setting by pressing the Info button or wait until the set value is automatically accepted after 10 seconds.

Adjusting the suction bar

The suction bar only needs to be readjusted in special cases. The factory setting is suitable for most applications

Adjusting the inclination

The inclination must be adjusted so that the suction lips of the suction bar make even contact with the floor over the entire length of the suction bar.

- Park the device on a surface without a slope.
- Turn the program switch to the "Vacuum" position.
- Drive the device a small distance forwards.

Read the spirit level. Illustration P

- (1) Screw
- 2 Nut
- (3) Spirit level
- 5. Unscrew the nut.

- Adjust the screw so that the spirit level indicator is between the two lines.
- Tighten the nut.
- To check the new setting, move the device forward again a short distance. Repeat the adjustment process if necessary.
- Turn the key-operated switch to "OFF".

Adjusting the height

The height adjustment affects the bending of the suction lips on contact with the floor.

Note

Standard setting: 3 washers above, 3 washers below Uneven floor: 5 washers above, 1 washer below the

suction bar. Very smooth floor: 1 washer above, 5 washers below

the suction bar.

- Unscrew the nuts. Illustration Q
- 1) Nut
- (2) Washer Spacer roller with holder
- Place the desired number of washers between the
- suction bar and the spacer roller.
- Fit the remaining unused washers above the spacer
- Screw on the nut and tighten.
- Repeat the entire procedure at the second spacer 5. roller.

Note

Set both spacer rollers to the same height.

Adjusting the squeegee blades

The squeegee blades only need to be adjusted on the D cleaning head.

- Adjust the squeegee blades by turning the setting wheel so that the squeegee blade touches the ground.
- Turn the adjustment wheel an additional 1 rotation down.

Spray nozzle

The hose with the spray nozzle is attached to the rear of the device. It is used for rinsing away dirt and manually cleaning the waste water tank

Illustration R

- (1) Spray nozzle
- Close the spray nozzle by turning it.
- Set the program selector switch to "Transport trav-
- Press the Info button.
- Turn the info button until "Tank Rinsing" is shown on the display.
- Press the Info button.
- Turn the Info button until "ON" is displayed.
- Press the Info button.
 - The water pump delivers fresh water through the sprav nozzle.
- Point the spray nozzle at the target and turn it to open it.

Cleaning

- Sit on the seat.
- Insert the Intelligent Key
- Set the safety switch to "1" 3
- Set the travel direction switch to forward travel. 4.
- Set the program switch to the desired cleaning pro-5. gram. Determine the speed with the accelerator pedal
- Determine the travel direction with the steering wheel. 8.

Drive over the surface to be cleaned.

Side scrubbing deck (option) The side scrubbing deck makes working close to the edge easier.

Note

The side scrubbing deck is not active in the polish and vacuum cleaning programmes.

Operate the side scrubbing deck switch. The side scrubbing deck is activated.

To finish working with the side scrubbing deck, set the side scrubbing deck switch to "0"

Finishing operation

Finishing cleaning

- Set the programme switch to Drive.
- Continue moving a short distance. The residual water is vacuumed up
- Turn the key-operated switch to "OFF". Remove the Intelligent Key.
- Charge the battery if necessary.

Draining the waste water

WARNING

Improper disposal of waste water

Environmental pollution

Observe the local waste water treatment regulations.

Note

The suction turbine switches off and the display shows when the waste water tank is full.

1. Remove the waste water drain hose from the support and open the drain hose cover. Illustration S

1) Waste water drain hose

- Squeeze the end of the hose and lower it over the disposal facility.
- Adjust the strength of the waste water jet by squeezing the end of the hose
- Rinse the waste water tank with clear water.
- Close the drain hose cover.
- Press the waste water hose into the support on the 6.

Waste water tank rinsing system (option)

- Remove the waste water drain hose from the support and open the drain hose cover.
- Close the cover of the waste water tank.
- Connect a water supply hose to the water connection of the waste water tank flushing system.
- Open the water inlet and rinse the waste water tank for about 30 seconds.
- Repeat the rinsing process 2 to 3 times if necessary.
- Close the water inlet.
- Disconnect the water supply hose from the device.
- 8. Close the waste water drain hose and press it into the support.

Empty the coarse dirt container

A coarse dirt container is only present on R cleaning heads

- 1. Lift the coarse dirt container and pull it out.
- Empty the coarse dirt container.
- 3. Reinstall the coarse dirt container.

Draining fresh water

- Open the fresh water tank cap. 1
- Drain the fresh water.
- Clean the filter.
- Fit the fresh water tank cap.

Shutting down the unit

- Turn the key-operated switch to "OFF".
- Remove the Intelligent Key.
- Secure the device against rolling away. Charge the battery if necessary.
- 4.

Grey Intelligent Key

The grey Intelligent Key grants the supervisory staff extended authorizations and setting options.

- Insert the Intelligent Key.
- Select the desired function by turning the info button.

Transport journey

- Set the program selector switch to "Transport trav-1.
- Press the Info button.

The following settings can be made in the Transport travel menu:

- Resetting the maintenance counter
- Key management
- Choosing the brush shape
- After-running time
- Setting the battery type
- Standard setting Setting the language
- Switch menu Factory setting

Resetting the maintenance counter

If maintenance work shown in the display has been carried out, the corresponding maintenance counter must then be reset.

- Turn the Info button until "Maintenance Cntr" is displayed.
- Press the Info button.
- The counter readings are displayed.
- Turn the info button until the counter to be cleared is highlighted.
- Press the Info button.
- Select "Yes" by turning the Info button. Press the Info button. 6.

The counter is cleared.

Note

The service counter can only be reset by Customer Service staff.

The service counter shows the time until the next service due by Customer Service.

Key management

The authorizations are assigned for each yellow Intelligent Key used and the language of the display is set for this Intelligent Key in the "Key Manager" menu item.

- Insert the grey Intelligent Key.

 Turn the info button until the "Key Manager" menu 2. item appears on the display.
- Press the Info button. Remove the grey Intelligent Key and insert the yellow Intelligent Key to be personalized.
- Select the menu item to be changed by turning the info button.
- Press the Info button.
- Select the setting of the menu item by turning the info button
- Confirm the setting by pressing the menu item.
- Select the next menu item to be changed by turning the info button.
- 10. After all settings have been made, call up the "Save?" menu by turning the info button.
- 11. Press the Info button.

The authorizations are saved.

The "Key Manager continue?" display appears.

- Yes: Program another Intelligent Key
- No: Exit the key menu
- 12. Press the Info button.

Choosing the brush shape

This function is required when changing the cleaning

- Turn the info button until the "Brush Head" menu
- item appears on the display. Press the Info button.
- Turn the info button until the desired brush shape is highlighted.
- Press the Info button.
- To change the cleaning head, move the lifting drive by turning the info button:
 - "up": Lifting

 - "down": Lowering
 "OFF": Stopping
- Turn the info button until the "OFF" menu item is dis-
- Press the Info button.

The menu is exited.

The controller performs a restart.

After-running time

- Turn the info button until the "After-Run Time" menu item appears on the display.
- Press the Info button.
- Turn the info button until the desired function is high-
- Press the Info button.
- Turn the info button until the desired after-running time is displayed.
- Press the Info button. 6.

Setting the battery type

- Turn the info button until the "Battery Menu" menu item appears on the display.
- Press the Info button.
- Turn the info button until the desired battery type is highlighted.
- Press the Info button.

Standard setting

Parameter changes made in the individual cleaning programs during operation are reset to the standard setting when the device is switched off.

- Turn the info button until the "Basic Settings" menu item appears on the display.
- Press the Info button.
- Turn the info button until the desired cleaning program is highlighted.
- Press the Info button.
- Turn the Info button until the desired parameter is hiahliahted.
- Press the Info button.
- The adjusted value flashes.
- Set the desired value by turning the Info button.
- Press the Info button.

Setting the language

- Turn the info button until the "Language" menu item appears on the display.
- Press the Info button.
- Turn the info button until the desired language is highlighted.
- Press the Info button.

Switch menu

The work light can be enabled or disabled in this menu.

- Turn the Info button until "Switch Menu" is dis-
- Press the Info button.
- Turn the Info button until "Work Light" is highlighted. 4.
- Press the Info button.

Factory setting

The factory settings for all cleaning parameters are restored.

- Turn the info button until the "Factory Settings" menu item is displayed.
- Press the Info button.
- Turn the Info button until "Yes" is highlighted.
- Press the Info button.

Adjusting parameters for cleaning programs

All parameters for cleaning programs are retained until another setting is selected.

- Set the program switch to the desired cleaning pro-
- Press the Info button.
 - The first adjustable parameter is displayed.
- Press the Info button The adjusted value flashes.
 Set the desired value by turning the Info button.
- Confirm the changed setting by pressing the Info button or wait until the set value is automatically accepted after 10 seconds.
- Select the next parameter by turning the Info button.
- After changing all desired parameters, turn the Info button until the "Quit Menu?" menu item is displayed.
- Press the Info button. The menu is exited.

Transport

△ DANGER

Driving on slopes

Risk of injury

Observe the maximum permissible gradient when driving the device on slopes for loading and unloading purposes (see chapter "Technical data").

Drive slowly.

△ CAUTION Failure to observe the weight

Risk of injury and damage Be aware of the weight of the device during transporta-

- With the D cleaning head installed, remove the disc 1.
- brushes from the brush head. When transporting in vehicles, secure the device against slipping and tipping over according to the applicable guidelines.
- Illustration T

(1) Lashing strap

Storage CAUTION

Failure to observe the weight

Risk of injury and damage Be aware of the weight of the device during storage.

ATTENTION

Frost Destruction of the device through freezing water

Drain all water from the device. Store the device in a frost-free location. When choosing the parking space, take into account the

- total weight of the device in order not to impair its stabil-
- This device may only be stored indoors. Fully charge the batteries before storing them for a
- long period. Fully charge the batteries at least every month during storage

Care and maintenance

DANGER Inadvertently starting up device

Risk of injury, electric shock Turn the program switch to the "OFF" position. Remove the Intelligent Key prior to all work on the de-

Pull out the charger mains plug.

Unplug the battery connector.

CAUTION

Risk of injury

The suction turbine continues to run after the device has been switched off.

Do not work on the device until the suction turbine is no longer running. Drain and dispose of the waste water and fresh water.

Maintenance intervals Each time after use

ATTENTION

Improper cleaning Risk of damage.

Do not spray the device with water.

Do not use aggressive cleaning agents.

A detailed description of the individual maintenance work is provided in the chapter "Maintenance Work".

- Drain the waste water.
- Rinse the waste water tank.
- Clean the coarse dirt filter.
- Clean the turbine screen.
- Only with R cleaning head: Remove the coarse dirt container and empty it.
- Clean the exterior of the device using a damp cloth, wetted with a mild washing lye.
- Check the suction lips, check for wear and replace if necessary.
- Clean the squeegee blades, check for wear and replace if necessary
- Clean the brushes, check for wear and replace if necessary
- Charge the battery
 - If the charging state of the battery is below 50%, charge the battery fully and without interruption.
 - If the charging state of the battery is above 50%, only recharge the battery if the entire operating duration will be required when next used.

Weekly

When used regularly, charge the battery fully and without interruption at least once a week.

Monthly

- If the device is temporarily shut down (storage): Perform equalization charging of the battery
- Check battery poles for oxidation, brush off if necessary. Make sure the connection cables are firmly in
- Clean the seals between the waste water tank and the cover, check for leaks and replace if necessary.
- Check the acid density of the cells if the batteries are not maintenance-free
- Only with R cleaning head: Clean the brush tunnel.
- Only with R cleaning head: Pull the water distribution strip off the cleaning head and clean the water

Illustration U

For longer periods of disuse, shut down the device when the batteries are fully charged. Fully charge the battery at least once a month.

Annually

Have the prescribed inspection performed by Customer Service.

Safety inspection/maintenance contract

You can agree on regular safety inspections or close a maintenance contract with your dealer. Please seek advice on this

Maintenance work

Cleaning the turbine screen

- Open the waste water tank cover
- Press the locking hooks together. Illustration V
- (1) Latching hooks
- (2) Float
- (3) Turbine screen
- Pull off the float.
- Turn the turbine screen anticlockwise
- Remove the turbine screen.
- Clean the turbine screen under running water. 6.
- Reinstall the turbine screen.
- Attach the float

Turn over or replace the worn suction lips

The suction lips must be turned over or replaced when worn out.

The suction lips can be turned 3 times until all 4 edges are worn.

- Remove the suction bar.
- Unscrew the star handles. Illustration W

- (1) Star grip
- 2 Strap
- (3) Inner part of the suction bar
- (4) Tension lock
- Pull out the inner part of the suction bar.
- Open the tension lock.
- Remove the strap
- Release the suction lips from the inner part. Illustration X
- (1) Squeegee blade
- (2) Support lip

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(3) Inner part of the suction bar

- (4) Strap
- Press the turned or new suction lips onto the knobs of the inner part of the suction bar.
- Attach the strap
- Push the inner part of the suction bar into the upper part
- 10. Screw in and tighten the star handles.

Cleaning the coarse dirt filter

- Open the waste water tank cover. Illustration Y
- Coarse dirt filter
- (2) Fluff filter
- Pull the coarse dirt filter upwards and off.
- Rinse off the coarse dirt filter under running water.
- Reinsert the coarse dirt filter into the waste water

Installing the D cleaning head

- Lift the holder of the cleaning head (see chapter 'Gray Intelligent Key/... / Selecting the brush shape")
- Push the cleaning head under the device so that the hose points to the rear
- Push the cleaning head halfway under the device
- Press the latching lug to the left and remove the cover from the cleaning head.
- Illustration Z (1) Latch
- 2 Cover
- Connect the power supply cable of the cleaning head to the cable of the device (the same colours must line up)

Illustration AA

- (1) Device cable
- (2) Power supply cable
- Fit the cover and latch into place.
- Push the cleaning head centrally under the device
- Connect the hose coupling on the cleaning head to the hose on the device.

Illustration AB

- (1) Hose coupling
- Insert the tab in the middle of the cleaning head into the fork in the lever.

Illustration AC

- Retaining pins
- (2) Lever
- 10. Align the holder of the cleaning head so that the holes in the lever and the cleaning head line up.
- . Insert the retaining pin through the holes and pivot the locking plate down.
- 12. Push the straight pin into the hole in the pull rod. Illustration AD
- (1) Pull rod
- 2 Straight pin
- (3) Guide channel
- 13. Push the pull rod in the guide channel on the cleaning head all the way to the bottom.

 14. Insert the locking plate in the guide channel and
- click into place
- 15. Repeat the procedure with the pull rod on the opposite side.
- 16. Insert the grey Intelligent Key.17. Set the "Disk" brush type.

Removing the D cleaning head

1. Press in the locking plate and pivot the pull rod upwards

Illustration AJ

- Retaining plate
- Pull rod
- Further removal is performed in the reverse order to installation.

Installing the R cleaning head

Remove both covers. Illustration AE

- Cover
- (2) Screw, cover

- (3) Bar cover
- (4) Screw, holder
- Unscrew the screws for the holders.
- Remove both holders.
- Unscrew the screw on the cover.
- Attach both tie rods to the eye bolts. Illustration AF
- (1) Pull rod
- (2) Knurled nut
- 3 Nut
- (4) Eyebolt
- Push the cleaning head centrally under the device.
- Fasten both tie rods to the holders (tightening torque: 25 Nm).

Illustration AG

- (1) Screw M8x20
- (2) Washer
- (3) Holder
- (4) Pull rod
- Insert the tab in the middle of the cleaning head into the fork in the lever

Illustration AH

- (1) Lever
- (2) Washer
- (3) Spring pin
- (4) Bolt
- (5) Tab
- Align the holder of the cleaning head so that the holes in the lever and the cleaning head line up.
- 10. Insert the bolt through the fork and tab.
- 11. Thread a washer onto the bolt.
- 12. Secure the bolt with a spring pin.
- 13. Connect the hose coupling on the cleaning head to the hose on the device.

Illustration AB

- (1) Hose coupling
- (2) Hose
- 14. Open the cover. Illustration Al
- (1) Cover
- 15. Connect the power supply cable of the cleaning head to the cable of the device (the same colours
- must line up).
- Fit the cover and secure it with the screw. 17. Place a spirit level on the side of the cleaning head
- parallel to the travel direction. Align the cleaning head horizontally by adjusting the knurled screw and the nut on the eyebolt.
- 19. Repeat the adjustment on the other side of the device.
- 20. Insert the grey Intelligent Key. 21. Set the "Brush" brush type.

Replacing the roller brushes

Note Replace the roller brushes when the bristle length has reached 10 mm.

- Raise the cleaning head.
- Pull out the brush replacement handle. Illustration AL
- 1) Brush replacement handle
- (2) Bearing cover with squeegee blade (3) Roller brush
- blade.
- Pull out the roller brush. Fit the new roller brush and centre it on the driver. Illustration AM

Remove the bearing cover including the squeegee

- (1) Driver
- (2) Mounting mandrel

latch it into place

6. Install the bearing cover with the squeegee blade. Make sure the roller brush sits on the mounting mandrel

and not underneath. Pivot the brush replacement handle upwards and

Repeat the entire procedure at the other side

Replacing the disc brushes

- Raise the cleaning head.
- Press the brush replacement pedal down, beyond the zone of resistance.

Illustration AK

- 1) Brush replacement pedal
- Pull the 1st disc brush sideways and out from underneath the cleaning head.
- Hold the new disc brush under the cleaning head, then press upwards and latch it into position.
- Repeat the procedure for the 2nd disc brush.

Replacing the side scrubbing deck brush (option)

- Press the brush replacement lever downwards. Illustration AN
- 1) Side scrubbing deck brush
- (2) Brush replacement lever

The brush falls out of the support.

Hold the new brush under the side scrubbing deck, then press upwards and latch it into position

Replacing the side brush (SB variant only)

- Unscrew the 3 screws. Illustration AP
- (1) Side brush
- 2 Screw

- Remove the side brush.
- 3. Slide on the new side brush.
- 4. Screw in and tighten the 3 screws.

Cleaning the fresh water filter

- Drain the fresh water (see chapter "Draining fresh
- Unscrew the fresh water tank cap. **Illustration AO**
- 1 Fresh water filter
- (2) Fresh water tank lock
- 3. Pull out the fresh water filter and rinse with clean water.
- Insert the fresh water filter.
- Fit the fresh water tank lock

Note: Take care to ensure that the hose connection in the fresh water tank cap is positioned at the lowest point in the tank after screwing the cap in place.

Troubleshooting guide

DANGER

The device can start unintentionally

People working on the device can be injured. Remove the Intelligent Key prior to all work on the de-

Before carrying out any work, pull the mains plug of the internal charger out of the socket.

Disconnect the battery connector before performing any

Drain the waste water

2. Drain the remaining fresh water.

If the malfunction cannot be remedied with the following instructions, contact Customer Service.

Malfunctions with information shown on the display

- If faults are shown on the display, proceed as follows:

 Fault display as a numerical code
 - In the event of a fault display with a numerical code, first reset the fault (the device):
 - a Set the programme switch to "OFF".
 - b Wait until the numeric code has gone out on the display.
 - c Set the program switch to the previous program. Carry out the appropriate remedial measures in the order given only if the error occurs again. The key-operated switch must be set to "0" and the emergency stop button must be pressed.
 - d If the error cannot be rectified, call Customer Service and state the error message.
- Fault display as text
 - a Follow the instructions on the display.
 - b Acknowledge the fault by pressing the info but-

Note

Error messages that are not listed in the following table indicate errors that cannot be rectified by the operator.

	work. In this case, please call Customer Service.
Malfunction	Rectification
Seat Switch opened!	 Release the accelerator pedal. Relieve the driver's seat briefly so that the controller can check the function of the seat contact switch.
Throttle Pedal Release!	Release the accelerator pedal.
No Travel Direction	1. Call Customer Service.
Battery Discharged!	1. Charge the battery.
Supply Voltage Incorrect!	1. Call Customer Service.
Charging Module Damaged!	1. Check the charger.
Fresh Water Tank empty!	Refill the fresh water tank.
Brush Pressure Not Reached!	 Check the brushes for wear and replace if necessary. Check the cleaning head functions: lower, raise.
Wastewater Full!	Empty the waste water tank.
Brake Damaged!	Stop driving the device. Call Customer Service.
Engine Too Hot! Cool-down period	 Set the safety switch to "0". Allow the device to cool down for at least 15 minutes. Contact Customer Service if this occurs repeatedly.
Horn Damaged!	Call Customer Service.
Master Module Too Hot! Cool-down period	1. Set the safety switch to "0". 2. Allow the controller to cool down for at least 5 minutes. 3. Significantly reduce the brush pressure on rough ground. 4. Contact Customer Service if this occurs repeatedly.
Brush Drive Overload!	Have the brush pattern adjusted.

Malfunctions without information shown on the display

Malfunction	Rectification
The device cannot be started	1. Sit in the driver's seat. 2. Take your foot off the accelerator before switching on the safety switch. 3. Turn the safety switch to "1". 4. Check the battery and charge if necessary. 5. Set the programme switch to "OFF". 6. Wait 10 seconds. 7. Set the program switch to the desired program. 8. If possible, only drive the device on level ground. 9. Check the parking brake if necessary. If the fault still occurs, call Customer Service.
The water volume is insufficient	Check the fresh water filling level, if necessary fill the tank completely so that the air is pressed out. Remove and clean the fresh water filter. Insert the filter and screw on the cap. Only with R cleaning head: Pull off the water distribution strip on the cleaning head. Only with R cleaning head: Clean the water channel. Check the hoses for clogging and clean if necessary.
The suction performance is too low	 Clean the seals between the waste water tank and the cover, check for leaks and replace if necessary. Check the turbine screen for soiling and clean if necessary. Clean the suction lips at the suction bar, turn over or replace if necessary. Close the lid on the waste water drain hose. Close the cover of the waste water tank rinsing system. Check the suction hose for clogging and clean if necessary. Check the suction hose for leaks and replace if necessary. Check the adjustment of the suction bar.

Malfunction	Rectification
The cleaning results are unsatisfactory	1. Set the appropriate cleaning program for the cleaning task. 2. Use suitable brushes for the cleaning task. 3. Use a suitable detergent for the cleaning task. 4. Reduce the driving speed. 5. Adjust the contact pressure. 6. Adjust the squeegee blades. 7. Check the brushes for wear and replace if necessary. 8. Check the water output.
The brushes do not rotate	 Reduce the contact pressure. Check if the brushes are blocked by a foreign body and remove the foreign body if necessary. If the motor is overloaded, let the motor cool down. Set the programme switch to "OFF". Wait 10 seconds. Set the program switch to the desired program. Check that the plug of the device is plugged into the cleaning head.
The device does not brake	Remove the brake disabling measures (see "Assembly/Unpacking/Pushing the device off the pallet").
The waste water drain hose is clogged	 Open the dosing unit cover at the drain hose. Pull the suction hose off the suction bar and close it by hand. Set the programme switch to "Vacuum". The blockage is sucked out of the drain hose into the waste water tank.
The "Dose" detergent dosing unit does not work	"Dose" version only: Call Customer Service.

Warranty
The warranty conditions issued by our relevant sales company apply in all countries. We shall remedy possi-

ble malfunctions on your appliance within the warranty period free of cost, provided that a material or manufacturing defect is the cause. In a warranty case, please

contact your dealer (with the purchase receipt) or the next authorised customer service site. (See overleaf for the address)

		Technical da	ata			
		R 75	D 75	R 85	D 90	D 110
General						
Travel speed, max. (Adv)	km/h	6 (10)	6 (10)	6 (10)	6 (10)	6 (10)
Theoretical surface performance (Adv)	m ² /h	4500 (7500)	4500 (7500)	5100 (8500)	5400 (9000)	6600
Theoretical surface performance with side scrubbing deck	m ² /h	-	-	5700 (9500)	6000 (10000)	-
Practical surface performance	m ² /h	3200 (5300)	3200 (5300)	3600 (6000)	3800 (6300)	4600
Volume of fresh water/waste water tank B 150 (B 200)	1	150 (200)	150 (200)	150 (200)	150 (200)	150 (200)
Coarse dirt container capacity	1	7	-	9	-	-
Volume of detergent tank ("Dose" option)		5	5	5	5	5
Detergent dosing	%	03	03	03	03	03
Water dosage	l/min	07	07	07	07	07
Load per unit area (with driver and full fresh water tanl	()					
Front wheel surface pressure B 150 (B 200)	N/mm ²	0,94 (0,98)	0,94 (0,98)	0,94 (0,98)	0,94 (0,98)	0,94 (0,98)
Rear wheel surface pressure B 150 (B 200)	N/mm ²	0,51 (0,67)	0,51 (0,67)	0,51 (0,67)	0,51 (0,67)	0,51 (0,67)
Load per unit area (weight/parking area) (Adv) B 150 / B 200	kg/m ²	599 (612) / 567 /)	599 (612) / 567 /)	599 (612) / 567 /)	599 (612) / 567 /)	599 (612) / 567 /
Front wheel surface pressure B 150 low wheel pressure	N/mm ²	0,172	0,172	0,172	0,172	0,172
Rear wheel surface pressure B 150 low wheel pressure left right	/ N/mm ²	0,221 / 0,228	0,221 / 0,228	0,221 / 0,228	0,221 / 0,228	0,221 / 0,228
Dimensions						
Length B 150 (B 200)	mm	1690 (1940)	1690 (1940)	1690 (1940)	1690 (1940)	1690 (1940)
Width without suction bar B 150 (B 200)	mm	810 (850)	810 (850)	910 (910)	980 (980)	1110
Height	mm	1390	1390	1390	1390	1390
Height with overhead guard (option)	mm	2060	2060	2060	2060	2060
Working width	mm	750	750	850	900	1100
Working width with side scrubbing deck	mm	-	-	950	1000	-
Working width with side brushes	mm	1080	1080	1080	1080	1080
Packaging dimensions lxwxh B 150 (B 200)	mm	1870x1120x1700 (2040x1120x1800)	1870x1120x1700 (2040x1120x1800)	1870x1120x1700 (2040x1120x1800)	1870x1120x1700 (2040x1120x1800)	1870x1120x1700 (2040x1120x1800
Tyres						
Front wheel, width (low wheel pressure)	mm	90 (235)	90 (235)	90 (235)	90 (235)	90 (235)
Front wheel, diameter (low wheel pressure)	mm	265 (290)	265 (290)	265 (290)	265 (290)	265 (290)
Rear wheel, width (low wheel pressure)	mm	75 (125)	75 (125)	75 (125)	75 (125)	75 (125)
Rear wheel, diameter (low wheel pressure)	mm	350 (350)	350 (350)	350 (350)	350 (350)	350 (350)
Weight						
Permissible overall weight B 150 (B 200)	kg	957 (994)	957 (994)	957 (994)	957 (994)	957 (994)
Net weight (transport weight) B 150 (B 200)	kg	727 (699)	727 (699)	727 (699)	727 (699)	727 (699)
Brush contact force, max.	N (kg)	765 (78)	641 (65)	844 (86)	778 (79)	925 (94)
Brush contact pressure, max.	N / m ² (g / cm ²)	27300 (280)	3700 (40)	26400 (270)	2800 (30)	2400 (25)
Device performance data						
Nominal voltage	V	36	36	36	36	36
Battery capacity	Ah (5 h)	170 / 180 / 240 / 285	170 / 180 / 240 / 285			
Mean power input (Adv)	W	2300 (3200)	2200 (3100)	2600 (3500)	2400 (3300)	2500
Average power consumption with side scrubbing deck (Adv)	W	2400 (3300)	2300 (3200)	2700 (3600)	2500 (3400)	2600
Driving motor power (Adv)	W	600 (1400)	600 (1400)	600 (1400)	600 (1400)	600
		` ′	` '	` '	· · ·	

		R 75	D 75	R 85	D 90	D 110
Suction turbine power	W	750	750	750	750	750
Brush drive power	W	2 x 600	2 x 600	2 x 750	2 x 600	2 x 600
Degree of protection		IPX3	IPX3	IPX3	IPX3	IPX3
Vacuuming						
Suction performance, air quantity	l/s	27,3	27,3	27,3	27,3	27,3
Vacuum (max.)	kPa (mbar)	21,1 (211)	21,1 (211)	21,1 (211)	21,1 (211)	21,1 (211)
Cleaning brushes						
Brush diameter	mm	105	410	105	450	550
Brush length	mm	700	-	800	-	-
Brush speed	1/min	1200	180	1200	180	180
Side scrubbing deck brush diameter	mm	-	-	220	220	-
Side scrubbing deck brush speed	1/min	-	-	210	210	-
Internal charger						
Nominal voltage	V	230	230	230	230	230
Frequency	Hz	50-60	50-60	50-60	50-60	50-60
Current consumption	Α	8	8	8	8	8
Ambient conditions						
Permissible temperature range	°C	540	540	540	540	540
Water temperature max.	°C	50	50	50	50	50
Filling system water pressure (Option)	MPa (bar)	1 (10)	1 (10)	1 (10)	1 (10)	1 (10)
Waste water tank flushing system water pressure (option)	MPa (bar)	1 (10)	1 (10)	1 (10)	1 (10)	1 (10)
Relative humidity	%	2090	2090	2090	2090	2090
Incline						
Max. working area slope (Adv)	%	10 (15)	10 (15)	10 (15)	10 (15)	10 (15)
Determined values in acc. with EN 60335-2-72						
Hand-arm vibration value	m/s ²	<2,5	<2,5	<2,5	<2,5	<2,5
Seat vibration value	m/s ²	<2,5	<2,5	<2,5	<2,5	<2,5
Uncertainty K	dB(A)	0,1	0,1	0,1	0,1	0,1
Sound level L _{pA} normal operation	dB(A)	67	67	67	67	67
Uncertainty K _{pA}	dB(A)	2	2	2	2	2
Sound power level L_{WA} + Uncertainty K_{WA} normal operation	dB(A)	85	85	85	85	85
Side scrubbing deck						
Power	W	-	-	140	140	-
Brush contact force, max.	N (kg)	-	-	88 (9)	88 (9)	-
Brush contact pressure, max.	N / m ² (g / cm ²)	-	-	2943 (30)	2943 (30)	-

Subject to technical modifications.

Declaration of Conformity

EU Declaration of Conformity

We hereby declare that the machine described below complies with the relevant basic safety and health requirements in the EU Directives, both in its basic design and construction as well as in the version placed in circulation by us. This declaration is invalidated by any changes made to the machine that are not approved by

Product: Floor cleaning ride-on machine

Type: 1.246-xxx

Currently applicable EU Directives

2006/42/EC (+2009/127/EC)

2014/30/EU

2014/53/EU (TCU)

Harmonised standards used

EN 60335-1 EN 60335-2-29

EN 60335-2-72

EN 62233: 2008 EN 55012: 2007 + A1: 2009

EN 55014-1: 2006+A1: 2009+A2: 2011

EN 55014-2: 1997+A1: 2001+A2: 2008

EN 61000-3-2: 2014 EN 61000-3-3: 2013

EN 61000-6-2: 2005

TCU

EN 301 511 V12.5.1 EN 300 440 V2.1.1

EN 300 328 V2.2.2

EN 300 330 V2.1.1

National standards used

The signatories act on behalf of and with the authority of the company management.

H. Jenner

Chairman of the Board of Management

S. Reiser Director Regulatory Affairs & Certification

il/Kaiser

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S. Reiser

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Declaration of Conformity (UK)

We hereby declare that the product described below complies with the relevant provisions of the following UK Regulations, both in its basic design and construction as well as in the version put into circulation by us. This declaration shall cease to be valid if the product is modified without our prior approval.

Product: Floor cleaning ride-on machine

Type: 1.246-xxx

Currently applicable UK Regulations S.I. 2008/1597 (as amended)

S.I. 2016/1091 (as amended)

S.I. 2017/1206 (as amended) (TCU)

Designated standards used

EN 60335-1 EN 60335-2-29

EN 60335-2-72 EN 62233: 2008

EN 55012: 2007 + A1: 2009

EN 55014-1: 2006+A1: 2009+A2: 2011 EN 55014-2: 1997+A1: 2001+A2: 2008

EN 61000-3-2: 2014

EN 61000-3-3: 2013 EN 61000-6-2: 2005

TCU

EN 301 511 V12.5.1 EN 300 440 V2.1.1

EN 300 328 V2.2.2 EN 300 330 V2.1.1

National standards used

The signatories act on behalf of and with the authority of the company management.

H. Jenner Chairman of the Board of Management

S Reiser Director Regulatory Affairs & Certification

Documentation supervisor:

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