

V310

USER MANUAL



Please read this entire user manual carefully before using the device!

This will help to protect you and the person being treated

Moreover, to avoid damage to the device!

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Device and functions

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- 1. Mains switch (ON/OFF) (At the rear of the unit)
- 2. Direction switch left/right
- 3. Increase Handpiece speed (rpm.)
- 4. Reduce Handpiece speed (rpm.)
- 5. Display
- 6. Increase Suction-performance
- 7. Reduce Suction-performance
- 8. Filter Control Key (hours down counter)

- 9. Removable cover of the filter charter/ Cover
- 10. Connection for suction tube
- 11. Suction tube
- 12. Handpiece
- 13. Connection socket for Foot control
- 14. Connection mains cable
- 15. Fuse



Bevor Sie das Gerät erstmals benutzen

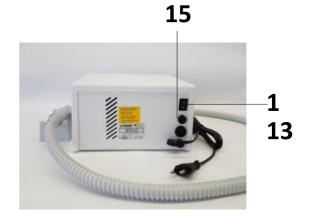
Lieferumfang

Bevor Sie das Promed 4030-SX2 in Betrieb nehmen, lesen Sie bitte die vorliegende Gebrauchsanweisung. Prüfen Sie die Lieferung auf Vollständigkeit und vergewissern Sie sich, dass das Gerät nicht beschädigt ist. Zum Lieferumfang gehören:

1x Promed 4030-SX2 Steuergerät

1x Handstück mit Mikroschalter (30.000 U/min.) inkl. Schlauchgarnitur





Start up

Scope of Delivery

Thank you for choosing podoTRONIC V310 micromotor unit. Before using the podoTRONIC V400 for the first time, please read the instructions thoroughly.

Check the define for visible exterior damage and ensure that all accessories are available. The scope of davery includes:



- 1x podoTRONIC V310 control device
- 1x Handpiece 30.000 rpm. with hose mounting and cover of filter chamber
- 1x filter bag
- 1x user manual
- 1x chuck cleaning tool
- 1x handpiece rest

Packaging

The packaging protects the device from damage during the transport (mechanical damage, moisture). Store the carton and packaging material for any necessary future repair work. For the transport the original packaging offers the best protection.

Signs and symbols in the user manual



Inuslation class 2



Тур В



The device should not be disposed as household waste.



Follow the instructions for use and keep them safe for future reference.



Date of manufacture

Signs and symbols in the user manual



Indicates caution and hazards to personnel or equipment. Important note!

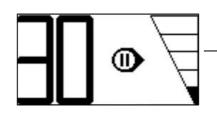


Tips and useful information

Display and indications



ROTATION SPEED IN XX-THOUSAND RPM (RPM X 1000)



Suction perfomance in bar grafics

WDIU



Paus e/	①	Rotation direction right — Stand By Modus
Stan d-By Rota	①	Rotation direction right – active operation
tion dire ctio	•	Rotation direction left — Stand By Modus
n right /left	•	Rotation direction left - Stand By Modus
Infor mati on Sign als	ⅎ	Foot control connected
		Handpiece motor is blocked or subjected to an excessive overload. For about few seconds, the electronic overload protection will interrupt the power supply and the micro motor and the suction turbine will stop. After approx. 8 seconds this announcement will disappear, and the device will be in stand-by condition.
		Air temperature in the suction turbine has exceeded 80° C.The turbine and the handpiece will be switched off. After falling of the temperature inside the case of the suction turbine of approx. 25 °C this announcement will disappear and then the device will be in stand-by condition.
		Replacement of the filter bag is necessary

Introduction and intended use

The podoTRONIC V310 has been designed and manufactured to the following standards to ensure the quality and safety of the device:

EMC Directive 2014/30 / EU: Basic EMC standard EN 61000-6-1: 2007 Immunity for residential, commercial, and small business applications, EN 61000-6-3: 2007 + A1: 2011 Interference emission for residential, commercial, and commercial areas small business.

NSP Directive 2014/35 / EU (2006 / 95 / EC): Generic standard EN 60335-1 (VDE 0700-1), 10/2012

This device is intended for use only by a qualified podiatrist and manicurist for pedicure and manicure treatments. It is not to be used for purposes other than podiatry and nail treatments.



All warranties against damages to persons and property fail to exist in this case.



Safety instrucions

Check the device for visible exterior damage and ensure that all accessories are available.



Read the instructions thoroughly and keep them safe for future reference.

Do not operate the device if:

- the electric cable or plug are damaged
- the device is damaged or has been dropped
- without a filter bag properly in place

The burden of nail and skin dust can cause health risks. The wearing of safety goggles / face masks / breathing masks and gloves is recommended for hygienic and safety reasons

Before using the unit, please make sure that the voltage indicated on the device corresponds to mains electricity (230V/50 HzN 115V/60 Hz option).

Install the unit on a flat stable surface. Please make sure that the exhaust outlet at the rear of the control box is not obstructed and that there is adequate room for exhaust and air circulation at the rear of the unit. Set the unit in a clean dry area. Avoid placing the unit near any heating sources or steam cleaners

Please avoid an abrupt temperature change, due to condensation of the device. The operating temperature lies between +15°C and +40°C.

Always set the suction level to a sufficient efficiency (usually reached for most tasks at 50% setting). The burden of nail and skin dust can cause health risks

When turning off the device, always make sure that the unit is in Stand-By-Condition before pressing the ON/OFF power switch ${}^{ extstyle 0}$ (1)!

Only consult authorized dealers for technical assistance, maintance or repair services! Changes, modifications of equipment and accessories are not allowed! In case of repair, the required safety tests shall be repeated.

Should a liquid or a foreign object of any kind find its way into the unit, immediately switch off the unit and pull the mains plug. Only consult authorized dealers for technical assistance, maintance or repair services!

Do not suck liquids!

If you are using burs of non stainless material, use a disinfectant that contains a corrosion protection. Always refer to the speed recommended by the bur manufacturer.

Only use burs with a \emptyset 2.35mm shaft and a shaft length of min. 35mm! This will give the optimum hold of the bur inside the chuck. Never use burs which are non-concentric, out of alignment or damaged. Never exceed the maximum speed recommended by the bur manufacturer.

Clean the device according to the instructions mentioned in this user manual. Take care that no water enters the housing of the unit.

Conditions for transportation/ storage/ usage

Transport only in the original packing of the supplier

Transport- and storage temperature: + 5°C - +50°C Operating temperature: +10°C - +40°C

Relative humidity: max. 90% non condensating

When storing the unit after use or sending it to an authorised repair service, please be aware to check the device before shipping and removing the used filter bags.

Filter bag installation and connection of suction handpiece



Power connection and switching on



Do not work without a filter bag installed.



The cover of the filter chmaber must always be closed properly when operating the device.

Filter bag installation and connection of suction handpiece

The suction tube ① is firmly connected with the cover of the filter chamber ②. The cover contains the power contacts for the handpiece. Lead the cover ③ into the filter chamber. The removal of the cover of the filter chamber / closure takes place in reverse order.



Make sure that the power plug is always easily accessible to be able to disconnect the device from the mains supply whenever necessary.

Power connection and switching on

Make sure that the mains cable is firmly installed and provided with a flat euro-plug. Insert the electrical plug into a proper electrical outlet. Turn the unit on by pressing the on/off power switch ①.

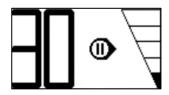
After switching on, the V310 ® logo will be shown on the display for a few seconds 6:



Then, the remaining operating hours will be shown on the display



Lastly, the display 6 will turn to the "standard-indication":



When re-starting the device, the following settings will be loaded and indicated on the display (last selected settings such as rotation direction; RPM revs; suction power; illumination adjustment). You can now adjust the desired settings and insert the desired burr.



The shaft of the burs / instruments must be fully inserted all the way into the chuck until they stop!



Never use burs which are bent and non concentric, out of alignment or damaged.

General Functions

RPM-setting

Activating/deactivating the rotation / Stand-By-Function Rotation direction, Right / Left



Bur usage / bur changing Overload protection for handpiece



Take the handpiece (12) out of the holder and hold it securely in your hand.

You can choose the desired speed, according to the selected bur, through pressing 3 on the keyboard



Never exceed the maximum speed recommended by the bur manufacturer!

The regulation of the speed is shown on the display (5) in two digits (in rpm x 1000). The speed can be adjusted as follows:

From 4,000 (start speed) r.p.m. – 10,000 rpm. From 10,000 r.p.m. – 30,000 rpm. in Steps of 500 in Steps of 1,000

Example:

Please press the key 3 till **H**. 1 is indicated on the display if e.g. the speed of 8.000 is required.

If e.g. the speed of 15.000 is required, please press 3 till 1 is indicated on the display.

Through continious pressing of key 3 or 4 a speedy run of rotation stages will be achieved.

By pressing of the key 4 the number of rotations can be set back in the same mode.

Activating/deactivating the rotation / Stand-By-Function

Pressing the microswitch on the back of the handpiece (14) places the unit in standby mode.

The set values are retained over the duration of the break.

By re-pressing the microswitch the unit will run again with the previous settings. The active operation of the unit will be indicated on the display by the symbol .



The burden of nail and skin dust can cause health risks. The wearing of safety goggles/breathing masks and gloves is recommended for hygienic and safety reasons.



Never exceed the maximum speed allowed by the bur manufacturer!

Rotation direction, Right / Left

The preset standard direction of rotation is clockwise (right rotation/forward) and is indicated by the symbol on the display





By pressing the key



(2) the direction of rotation can be changed.



We recommend to a change the direction of rotation with a switched off motor, or first reduce the rotation speed at least to 10,000 U/min before the change of the direction. Please avoid switching the direction at high speed, as this represents a very high load for the brushless DC motor.

Bur usage / bur changing



Always make sure the unit is switched to stand by mode by the micro switch on the handpiece ②when you insert or change a bur!

The handpiece is equipped with a "quick-grip" centrifugal chuck mechanism. No twisting is required to open or lock the chuck. Insert the bur all the way into the chuck until it stops. To remove a bur simply pull it out by hand .

Only use burs with a Ø 2.35mm shaft and a shaft length of min. 35mm!

Never use burs which are non-concentric, out of alignment or damaged.

We recommend to burs with a maximum head diameter of Ø 6mm.



Never exceed the maximum speed recommended by the bur manufacturer!



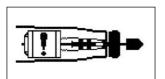
At higher speed, the barrel becomes out of round (vibration in the handpiece). The chuck, ball bearing or milling cutter can be damaged.

In case of doubts, always refer to the speed recommended by the bur manufacturer.

Overload protection for handpiece motor

If the motor is probably blocked or subjected to an excessive overload for about 5 seconds, the electronic overload protection will interrupt the power supply and the micro motor and the suction turbine will stop.

The following error massage appears on the display ⑤:



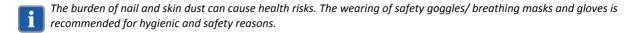
After a few seconds this announcement will disappear, and then the device will be in stand-by condition. The rotation is deactivated.

Suction Settings

Setting of suction powe Filter change Control system for recommended filter change Setting of the filter time



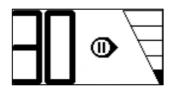
Temperature protection of the suction turbine



When operating the device the suction turbine is running permanently at the lowest possible suction power level (25%). It is not possible to turn off the suction completely

Setting of suction power

By pressing of one of the keys 6 or 7 the suction power can be increased or reduced in 5 steps. The adjusted power rating will be indicated on the display 5 in steps and in bar graphics.



A sufficient suction efficiency is usually reached at most tasks on 50% (step 3) setting.

Filter change

To remove the whole cover of the filter chamber (9) draw gently the connection part of the suction tube (10)

Then hold the filter bag with your hand at the front, to avoid the coming out of the dust, and pull the hose flange from the opening. Remove the full filter and replace it by a new one.

The replacement and re-assemble following the above steps in reverse order.



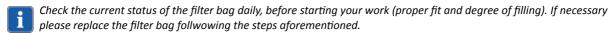
Use only original filter bags!



The filter bags is a disposal one, never try to empty the filled filter bag to reuse it. This is not hygienic and will make the filter bag leaky.



Always keep the inside of the filter chamber clean. This will help to avoid dirt getting into the aspiration motor. This can damage the suction turbine. Do not reuse it. All warranties against damages fail to exist in this case!



The standard commercial smell cartridges for domestic vacuum cleaners (accessories) fit in the filter bag opening and prevent extensively the smell nuisance.

A punctual filter change extends the life time of the suction turbine.

The replacement should be done when a fall off of the suction power is noticeable, at the latest, if the filter is filled to 2/3. When working with a filled filter, the turbine will receive a smaller air supply and thus the operating temperature will be increased which can damage the suction turbine.

All warranties against damages fail to exist in this case!



W310



When working with an overfilled filter bag, there is a risk that the filter bag bursts! This can lead to dust entering into the suction turbine and damaging it!

Control system for recommended filter change

The podoTRONIC V310 is equipped with a counter of the operating hours as guideline assistance for checking and replacing the filter.

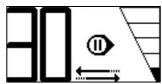
The remaining working time with the filter used can be called up at any time by pressing the taste and appears briefly on the display (5).





The filter symbol shows the turbine temperature in the suction chamber.

At reaching the full time of 20 hours and the counter reaches at 10 hours you will be advised by the symbol 💳 to change the filter.



This symbol \(\square\) will remain visible on the display (5) until a filter change has been carried out.

In case of restarting the unit by the mains switch (1) as long as no "RESET" of the hours counter has been made, the unit will start as follows: the remaining operating hours will be shown on the display for approx. 3 seconds, then "Check Filter" will be indicated on the display:



Further work is possible despite an overfilled filter bag at your own risk! This can damaged the suction turbine. All warranties against damages fail to exist in this case.



After the change of the filter bag a "RESET" for the operating hours counter is necessary.

A "RESET"of the counter can be made as follows:

FILTER

8 for about 4 seconds to reset the operating hours counter to 20 hours. The operating time of 20 hours Press the button will be counted down again to advise you after reaching 10 hours to check or replace the filter bag on tim



Make sure not only to reset the counter but also to replace the filter bag!



Important! Please note that this is only an orientation aid and the indicator does not control or show the status of the filter. It counts down only the opertional 20 to 10 hours after the "RESET".

Setting of the filter time

FILTER

The number of hours counted down until a filter change is recommended can be adjusted individually based on your own experience of 10 hours - maximum 20 hours.

12

CONTRO (8) pressed, to set the operating hours. The display (5) will show "SAVE" or "SPEICHERN" podo TRONIC



Then the current filter time is displayed

FILTER



CONTRO 8 and then press it again. The scale for setting the filter time (10-20h) will appear on the Briefly release the button display (5):



(4) the filter time can be increased or reduced. By pressing of one of the keys

As soon as you have set the desired filter time and do not make any further settings, the "standard display" is shown again on the display (5). The set filter time is automatically saved.

Temperature protection of the suction turbine

If the air temperature in the suction turbine will exceed 80° C. the turbine and the handpiece will be switched off. On the display (5) the error message "OVERHEAT" will appear.



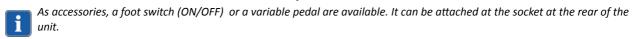
After falling of the temperature inside the case of the suction turbine of approx. 25 °C this announcement will disappear and then the device will be in stand-by condition.

Possible reasons for an overheating of the suction turbine

- Blockage in suction hose or handpiece
- Overfilled filter bag
- Insufficient air circulation at the rear of the unit

Should the above mentioned reasons be excluded, we recommend to contact an authorized dealer for repair service.

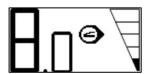
Connection of foot switch or variable pedal



With a connected foot switch or pedal the symbol will appear in the center of the display ⑤.







With the foot switch (ON/OFF) the equipment can be activated according to the reseted values of number of rotation of the suction.

By taking the foot away from the foot switch the motor handpiece and suction will stop.

If a foot pedal is connected, the variable speed foot control will allow you to go steplessly and very sensitively up to the maximum speed you selected.

The preset number of revolutions by

3 and 4 serves as "preselection" for the maximum speed.

Thus the control option by foot is limited up to the number of revolutions showed on the display 6 otherwise you select the

maximum speed by key



3 to be able to have the entire speed range with the foot control.



Never exceed the maximum speed recommended by the bur manufacturer!

Maintanance/Care

Cleaning & disinfection Cleaning the chuck Replacing the fuse



If necessary, we recommend sending the device to an authorized dealer for maintenance.

Cleaning & disinfection



Always remove the mains plug before cleaning the device!



Don't use a disinfection spray for cleaning!

Moisture could enter the device and cause damages to the internal parts (to bearings in the handpiece, to electronics in the control device)

14



Use only the recommended cleaners in combination with soft cloth for wiping.

When using cleaners always pay attention to the instructions of the manufacturer!



Manual disinfection - external



We recommend the following products based on material compatibility.

The microbiological efficacy must be ensured by the disinfectant manufacturer.

- Mikrozid AF Liquid made by Schülke & Mayr
- FD 322 made by Dürr



Consumables required:

• Cloths for wiping of the medical device.

Manual disinfection - internal

A manual internal disinfection is not applicable.

Unit disinfection – internal & external

A machine external and internal disinfection is not applicable.

Cleaning & disinfection of the handpiece

The handpiece should be cleaned at least once a day (depending on usage).

1. Gently pull the handpiece apart where the connector for the suction hose meets the motor jacket.







2. Push the motor and chuck mechanism out of the motor jacket.







3. Clean the inside of the motor jacket with a small brush not using any liquids. Then wipe the entire motor assembly, the motor jacket and hose set with a suitable disinfection wipe.









4. Reinstall the motor assembly. When reassembling the handpiece make sure to align the motor part with the grooves in the motor jacket. Please be aware that the inseration is only possible by the correct alignment of the motor part without using excessive force.







podo TRONIC®

5. When the motor part has been reinstalled inside the motor jacket be sure to align the connector of the suction hose correctly to the motor pins to avoid damaging them









Always make sure that no water or any other kind of liquid enters the handpiece! Never drain the handpiece in water or any other kind of liquids. Risk of electric shock!

Cleaning & disinfection of the surface of the control device

Clean the unit with a suitable disinfection wipe. After cleaning the unit rub it dry using a soft dry cloth.



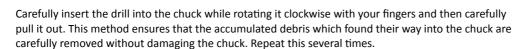
Always make sure that no water or any other kind of liquid enters the control device! Never drain the control device in water or any other kind of liquids. Risk of electric shock!

Cleaning the chuck

For cleaning the chuck, make sure the unit is switched to stand by mode!

If debris has accumulated inside the chuck and consequently does not allow a secure hold for the working tool, or you notice that the bur can not be inserted all the way into the chuck, then the chuck should be cleaned according to the following instructions:

The handpiece comes with a special drill for cleaning the chuck mechanism.





Replacing the fuse



Ziehen Sie vor dem Reinigen des Gerätes oder zum Wechseln der Sicherung immer den Netzstecker!

Die Gerätesicherung befindet sich an der Rückseite des Gerätes (12). Drehen Sie mit einem geeigneten Schraubendreher den Sicherungsträger heraus und ersetzen Sie die Sicherung durch: Feinsicherung T2,5A (115V: 5,0A)

Maintenance / Service

In case of a repair claim, please contact your local dealer or supplier.



Clean the unit and handpiece. Make sure that the used filter been removed and the unit is to be sent with a new filter or without filter.





Due to hygienic reasons devices with a used filter cannot be processed or repaired and will be sent back at the owners expense. Moreover, this may lead to substantial damages to the device during the transport.

Warranty

The guarantee equals 12 months from the purchase date on which the first customer acquired the unit. The purchase date must be proven with a proof of purchase.

Normal wear, e.g. on ball bearings, carbon brushes, chuck, seals etc.... is exempted. Within the framework of the guarantee, within Germany, the faulty device will be repaired at no charge or replaced at our option. The prerequisite is postage paid shipping to us with the named documents. Complaints in foreign countries must be directed to the representatives within those countries.

The guarantee is void if realized that the damage was caused by improper or wrong installation or handling, failure to comply with the instructions for use, external influences, or as a consequence of unauthorized repair or alterations.

The guarantee is limited to the repair or replacement of the device.

Further liability (particularly loss of gains or sales) is excluded. If it is shown that the defect is not covered by the guarantee or the guarantee period has expired, the costs of verification and repairs must be borne by the customer.

Technical Data

Voltage: 230V/ 50 Hz (115V/ 60 Hz Option)

Power: max. 350 Watt

Handpiece: max. 50 Watt / 24 V / 30.000 rpm. / dc motor

Dimensions controller: (B x H x T) 219 x 124 x 232 mm Dimensions suction handpiece: L = 118 mm, D= 17-27-31 mm

 Weight:
 ca. 3,0 kg (Set)

 Fuse:
 T2,5A (115V: T5,0A)

 Insulation class:
 2 □ Typ B

Disposal

Prior to disposal, the unit should be cleaned thoroughly without a filter bag in order to protect people, the environment and material.



When disposing the device, the relevant legal regulations must be observed. According to Directive 2002/96 / EC (WEEE) all devices supplied after the 13.08.2005 may not be disposed with household waste.



The device is designed for professional use and is included in the business-to-business sector.



The disposal regulations of the individual EU countries may be different. If required, please contact your supplier.

Device

The device should be disposed as electronic scrap and do not belong in the household waste.



Please refer to the instructions in the chapter "Disposal".

Filter bag

Used filter bags can be disposed in your garbage.



Packaging

The packaging materials are selected to meet environmental and disposal technology and are recyclable.



Please refer to the country-specific charakteristics.



Manufacturer information



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