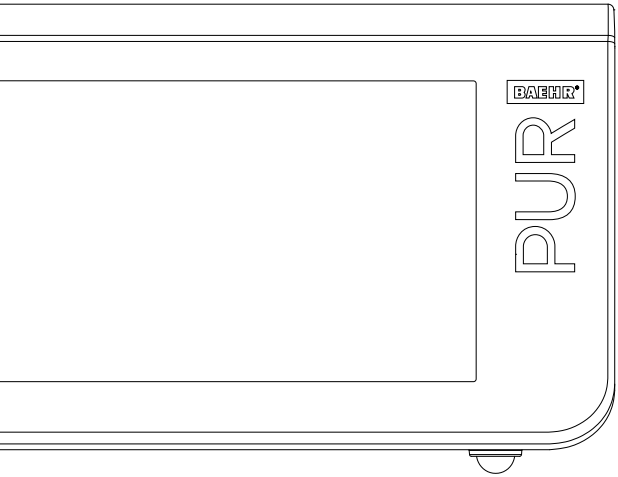

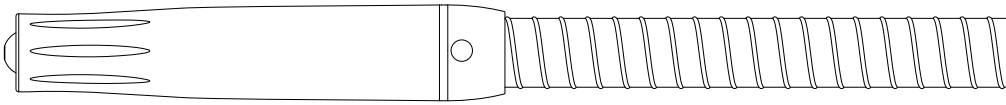

BAEHR PUR

DE Gebrauchsanweisung
Trockentechnik Fußpflegegerät inkl. Handstück (Medizinprodukt)

EN User manual
Drytech foot care device incl. handpiece (medical device)

EN

1. Contents

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2. User instructions

This user manual must be read carefully before first use and the instructions and regulations contained therein must be strictly observed.

This user manual is part of the user agreement for the device. By reading it carefully, you will receive complete instruction in the operation, function and use of the device. This enables you to recognise and avoid operating errors, hazards and damage.

Please keep this user manual in a safe place with the device.

If you have lost the BAEHR PUR user manual, you can reorder it from us at any time. Our contact address can be found under **Chapter 9 "Contact address & manufacturer".**

- Please read this user manual carefully.
- Please keep the user manual in a safe place for future reference – also for carrying out cleaning work on the device.
- Please note all warnings and instructions in this user manual and on the device.
- If you are cleaning the device, the power supply must be completely disconnected. Unplug the mains plug from the socket. Please note cleaning / disinfection in **chapter 5 "Maintenance and care"** and the instructions provided in its subchapters.
- **Instead of switching off the device at the main switch or disconnecting it from the power supply, you can also disconnect the device from the power supply via a multiple socket with a toggle switch (e.g. integrated in the pedicure cabinet).**
- Do not place the device near heat sources such as radiators, air conditioners, refrigerators or similar. Also avoid placing the device near water sources (e.g. washbasins) and / or chemicals. Pay attention to a suitably hygienic environment. Place the device on a firm and non-slip surface. Avoid placing the device on unstable tables, trolleys or similar. Severe damages and injuries can be caused by the device falling down.
- Make sure that you operate your device in well ventilated rooms.
- To ensure reliable operation of the device, protect it from the cold as well as from overheating. Avoid temperatures below +5 °C and above +35 °C.
- If your device has been left in a cold environment for a long period of time and you wish to use it again in a warmer environment, allow it to acclimatise for at least 5 minutes before switching it on.
- Please understand that we cannot accept any liability for products not included in the scope of delivery for any use whatsoever. This also applies to any consequential damages.
- Avoid:
  - Touching plug contacts with pointed and / or metallic objects.
  - Water, drinks and other liquids in close proximity to the device.
  - Children near to the device without supervision.
  - Touching the mains plug with wet and / or moist hands.
- Do not carry out any repairs to the device yourself, as this will invalidate the warranty. Refer all repairs to authorised and qualified personnel. If necessary, please contact the manufacturer or distributor of the device (see label on the device) and **see Chapter 9 "Contact address & manufacturer".**

Please do not use the device in the following cases, disconnect the device from the mains immediately and contact the manufacturer;

- If the supply cable / insulation displays any damage.
- If the display has failed.
- If the device was exposed to moisture and / or wetness.
- If the device has fallen down and/or the device housing is damaged. This also applies if the glass cover on the front of the device is damaged.
- If you hear something "rattling" in the device, which indicates that there are loose parts in the device.

Lightning and / or surge voltages can damage the device. For this reason, we also recommend that you disconnect the mains plug during thunderstorms and/ or long periods of inactivity to protect the unit from voltage spikes.

Before connecting the unit to the mains power supply, check that your local power supply specifications match those on the nameplate.

2.1 Manufacturer's declaration regarding this user manual

Dear customer,

Gustav Baehr GmbH has produced this user manual with the utmost care. Nevertheless, it cannot be ruled out that it may contain inaccuracies or that some things are not described. We therefore ask you to inform us if you discover any errors or inaccuracies.

Gustav Baehr GmbH reserves all rights to amend / supplement this user manual.

This user manual may not be passed on or supplemented without the prior express authorisation of Gustav Baehr GmbH.

The personal designations used in this user manual always refer equally to male and female persons. Double naming and other designations are omitted in favour of better readability.

All device parts referenced with numbers in the text (e.g. "Handpiece sleeve (22)") can be found as an overview in chapter 11.

2.2 Symbols

2.2.1 Symbols in this user manual

ATTENTION / WARNING: This symbol indicates a danger to people or the device. The utmost attention must always be paid to this symbol. Read the relevant sections very carefully and strictly follow the instructions.

This symbol indicates particularly useful information and provides additional information on operating the device.

CE 0483

CE mark (Communauté Européenne) with number of the certification body. A product bearing this mark fulfils the requirements of the relevant EU Directive / Regulation (the applicable European standard).

In this case, the device fulfils the requirements of the MDR (Medical Device Regulation - EU regulation 2017/745) and is therefore considered a medical device.

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2.2.2 Nameplate with power rating on the device

Fig. 1: Nameplate

	Manufacturer: Gustav Baehr GmbH, Max-Eyth-Straße 39, 71332 Waiblingen
	Medical device
	CE mark (Communauté Européenne) with number of the certification body. A product bearing this mark fulfils the requirements of the relevant EU Directive / Regulation (the applicable European standard).
	It is essential that you read and follow the user manual before using the device.
	This symbol indicates which fuse(s) is / are used in the device.
	Country of manufacture: Made in Germany
	Electrical / electronic scrap Devices with this labelling must be disposed of properly and must not be disposed of with household waste.
	Application part of type BF This unearthed applied part provides protection against electric shock by complying with the standardised leakage currents (type BF).
	Article number at Gustav Baehr GmbH
	Protection class II – a device belonging to protection class II.
ON (max) / OFF (min)	Indicates how the device should be operated. The following applies to the device: Operating time: 30 min (maximal) – break time: 10 min (minimal) These permissible operating times correspond to the usual working practice in podiatry / foot care.

2.2.3 Other markings on the device

Fig. 2: Identifying label

UDI	UDI = Unique Device Identifier The Unique Device Identifier (UDI) is a unique numeric or alphanumeric code for a medical device for traceability purposes. This code consists of several elements. (01) GTIN – formerly EAN-Code (11) Date of manufacture of the device (21) Individual serial number
SN	Individual serial number for clear traceability
	Date of manufacture of the device
REF	Article number at Gustav Baehr GmbH

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2.2.4 Symbols on the packaging

	Transport upright (top = in direction of arrow)
	Protect from impacts!
	Ecolabel material type “corrugated board”
	Protect from wetness!
	Permissible temperature range (storage and transport): -10 °C to +40 °C
	Permissible air humidity range: 30 % to 85 %
800 hPa - 1060 hPa	Permissible air pressure: 800 hPa - 1060 hPa
	Manufacturer: Gustav Baehr GmbH, Max-Eyth-Straße 39, 71332 Waiblingen
MD	Medical device
CE 0483	CE mark (Communauté Européenne) with number of the certification body. A product bearing this mark fulfils the requirements of the relevant EU Directive / Regulation (the applicable European standard).
	Follow the user manual and observe the instructions for use / treatment of the device
	Country of manufacture: Made in Germany
	Electrical / electronic scrap. Devices with this labelling must be disposed of properly and must not be disposed of with household waste.
	Identification label as example **(see chapter 2.2.3 “Other markings on the device”**)

2.3 Foreword

Dear customer!

We are delighted that you have decided to purchase this dry technology foot care device. The BAEHR PUR has technical features that will help you in your work.

The BAEHR PUR is manufactured from many high-quality aluminium, stainless steel and plastic parts, thus ensuring maximum stability and quality. Moreover, the microprocessor-controlled electronics maximise the power and performance of the electronic components.

In addition, the BAEHR PUR has an electronic handpiece motor adjustment that provides power and performance even at the lowest speeds. Test it for yourself and you are sure to be impressed.

The highlight of the BAEHR PUR is the 7-inch touch display, which allows you to operate your machine, make individual settings and access various information and instructions. All of this gives you an innovative device for your daily work. In addition, the BAEHR PUR sets new hygiene standards: the front part of the handpiece and the handpiece sleeve are autoclavable and ensure the highest hygiene standards. The replaceable suction hose allows the user to clean the inside - perfect for everyday professional use!

The tried and tested Easy-Speed concept can also be found in your BAEHR PUR: full-size instrument illustrations on the control unit's touch-screen display make it easy to set the motor speed for the instrument being used (this does not replace the need for the user to check the manufacturer's maximum speed specification).

If the device is not in use, the screen brightness is reduced to save energy. As soon as you touch the foot care device on the screen or press the button on the handpiece, the display will return to the pre-set level of brightness. Thanks to the integrated protection systems, you can also switch your device on and off easily via a multiple socket - for example, conveniently via the back of your pedicure cabinet or a main switch.

With the BAEHR PUR, you can enjoy the following "strong" advantages:

- high suction power perfectly matched to the working conditions
- very low noise level
- very low weight
- easy to use and safe to operate with advanced touch display
- excellent robustness (for mobile use)
- strong and long-lasting reliability
- energy-saving display technology with automatic dimming when not in use
- button on handpiece
- assurance of high standards of hygiene with various cleaning/disinfection options (including hose cleaning option)
- maintenance wizard that clearly shows all maintenance work that can be carried out by the user step-by-step
- simple, quick hose cleaning in just a few simple steps
- excellent hygiene properties thanks to replaceable suction hose with the option of cleaning from the inside by the user
- handpiece front section with collet and handpiece sleeve autoclavable

The BAEHR PUR foot care device is manufactured and tested according to strict quality criteria and complies with the European Medical Device Regulation (Regulation 2017/745; MDR) Class IIa.

We hope you enjoy using your new device and wish you every success with your work.

Your Gustav Baehr GmbH

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2.4 General product description and intended purpose

The BAEHR PUR is an active medical device with suction technology and belongs to the group of devices for the care of the feet. The products are intended for powering rotating instruments in podiatry (medical foot care). The resulting dust is caught by a suction function.

2.4.1 Intended purpose

Active therapeutic foot care device for driving rotating instruments (cutters, abrasive caps, etc.) in podiatry - to alleviate foot complaints, to treat diseases and changes in the foot area - as well as in foot care. Podiatrists and chiropodists are trained specialists.

2.4.2 Clinical uses / clinical function

Due to the nature of the BAEHR PUR's application (powering rotating podiatric instruments), the device can only provide indirect clinical benefit in the context of treatment. The foot care devices have no contact with the patient, so that no patient-centred result is achieved. These devices have long been considered standard equipment and can be found in almost every podiatry practice. The identified clinical references confirm the positive added value of this podological treatment in the prevention and treatment of foot pathologies (especially in patients with diabetes mellitus). Users need to be familiar with how to work and need to be trained/experienced to do the job.

The foot care devices have no clinical functions (as defined by IEC 60601-1). The result of the treatment is essentially determined by the shape and nature of the rotating instruments, the regular treatment of the patient and the skill of the operator. When used as intended, there is no physical contact between the device and the patient. The device therefore only has aspects of basic safety (including the aspects of suitability for use). The treatment result is not significantly affected by maintaining the exact speed or suction power. The devices fulfil the technical requirements[1] of podiatrists solely on the basis of technical performance data and operating functions.

2.4.3 Indications

The BAEHR PUR foot care device is intended for the following applications (indications) in conjunction with rotating instruments:

- for cleaning and milling out the nail fold and removing an Ungius incarnatus etc.
- for smoothing and removing mycotic and non-mycotic nails
- possibly for polishing non-mycotic nails
- with hollow cutter for removing deep callosities or clavi
- for milling and smoothing the interdigital spaces
- for smoothing the sole of the foot with a twister, cap grinder or similar
- for drilling through the nail using a rose drill or hollow drill to relieve tissue pressure in the case of clavi, subungual hematoma, etc.
- to roughen the nail in preparation for clasp correction
- to prepare in case of panaritium
- for removal of mild to very severe callosities

Areas of the body:

- application on the foot, nail and nail bed

Other types and areas of use are at your own risk and may harbour dangers. Any other purpose of use is not permitted.

Improper use can result in damage to persons and property.

The manufacturer cannot be held responsible for damage caused by improper use, unqualified personnel or incorrect operation.

Improper use or opening the device will invalidate any warranty claims.

WARNING: This device must not be modified without the manufacturer's authorisation.

[1] *A requirement identified as necessary for a user or user group to achieve a desired work result within a specific context of use [ISO/IEC 25064].*

Only use power cables approved by the manufacturer to operate your device. If you need a new power cable, please contact the manufacturer. Operation using a different supply cable is not permissible.

2.4.4 Contraindications and exclusions

Due to the nature of the BAEHR PUR's application (powering rotating instruments), the device can only provide an indirect clinical benefit in the context of treatment. The foot care devices have no contact with the patient, which means that no patient-centred result is achieved. Any complications that may occur are not directly related to the pedicure device used, but are more likely to be caused by an incorrect choice of rotating instrument or an inappropriate speed setting.

The BAEHR PUR may only be used in accordance with its intended use by appropriately trained and qualified personnel.

BAEHR PUR is contraindicated for all applications except those mentioned in the intended use or under indications.

2.4.5 Patient target group

There is no limitation to the target group of patients. The medical device can be used without restriction on all patients as part of podological treatment in accordance with the defined intended use.

2.4.6 Operator requirements

This device may only be used by qualified and trained podiatrists, medical chiropodists, doctors or persons from related professions. They must be familiar with the relevant working methods and have the appropriate training.

The user is obliged or must ensure that:

- only fault-free equipment in perfect condition is used.
- they protect themselves, the patient and third parties from danger.
- contamination from the device is avoided.

The user must observe either the legal requirements of the German Medical Devices Operator Regulation (MPBetreibV) or any national legal requirements that may apply to the operation of the device.

2.4.7 Personal and patient protection

It is essential that you read this section with the utmost care! It contains important information to protect you, others and the device from harm!

- Only use high-quality rotary instruments with a standardised shaft diameter according to DIN EN ISO 1797 of 2.35 mm, cylindrical TYPE 2 from the BAEHR range, which are certified medical devices.
- To change or plug in / out an instrument on the handpiece, the handpiece motor must be switched off. The shank of the instrument must be fully inserted into the collet for operation.
- When using rotary instruments, please pay attention to their user manuals. Pay particular attention to the manufacturer's instructions regarding the maximum number of rotations and for treatment (cleaning, disinfection and sterilisation). For further information on the instruments (including their intended use), please refer to the "Rotary instruments" chapter in the current Gustav Baehr GmbH main catalogue or in the online shop www.fusspflege.com.
- Disinfect, clean and, if necessary, sterilise the instruments after each use in accordance with the manufacturer's instructions.
- Only use cleaned, disinfected and, if necessary, sterilised instruments each time you change patients in order to avoid the possible transmission of germs to subsequent patients.
- Disinfect the surface of the handpiece after each use and before each patient change (ensure that no disinfectant or other liquid enters the device during disinfection). For more information, please refer to **chapter 5.4 "Care (cleaning and disinfection)"** of this user manual.
- After each use and before each patient change, disinfect all parts of the device that may have come into contact with contaminated particles (ensure that no disinfectant or other liquids enter the device during disinfection).
- During use, operating personnel must wear eye, mouth and nose protection as well as disposable gloves.

- During use, the operating personnel must ensure that neither hair nor other loose objects such as cloths, cotton wool or similar can get into the area of the rotating instruments. A hairnet should be worn if necessary. Objects that could get caught in rotating components must not be allowed to enter the treatment field.
- The operating personnel must remember that working with the rotating instruments removes particles that may splinter. Therefore, open and untreated patient wounds in the immediate vicinity of the work area should be covered with a sterile plaster to protect them from splintering particles before starting work.
- The device must be maintained and cleaned in accordance with the manual before and after long periods out of use.
- Only accessories (rotating instruments, cables, etc.) that are approved for the device may be used with the device. The use of non-approved accessories may cause damage to the unit, particularly to the handpiece motor and collet, and may result in premature wear or failure.
- After the last use of the device, remove the instrument from the opening for DIN instruments to ensure that nobody injures themselves when putting the device away.
- The national legal regulations must be observed during use, in particular:
  - the current valid working conditions.
  - the current valid accident prevention measures.

To ensure continued operational readiness and value, the prescribed care and maintenance must be carried out.

The device must only be repaired with spare parts that have been approved by the manufacturer and in accordance with the manufacturer's instructions. The recommended customer services (after notification, but within 24 months at the latest) as well as inspection and repair work may only be carried out by the manufacturer. Any safety checks required as part of repair / maintenance must be carried out or repeated.

This device may not be changed without the permission of the manufacturer.

2.4.8 Possible risks for patients

The suction technology and filter system used in the BAEHR PUR contribute significantly to minimising the release of potentially pathogenic dust into the ambient air, thus reducing the risk of transmissible germs (micro-organisms). This minimises the risk to patients from inhalation and also allows the treatment of immunocompromised patients.

Regular and careful medical histories can help to recognise and prevent potential infection risks.

Make absolutely sure that you only work on uncontaminated skin or nail areas with disinfected / sterilised instruments if you have previously carried out work in areas contaminated with germs.

2.4.8.1 Hazards from dust and removed material

The effective suction and the filter system used in the BAEHR PUR minimise the risk to patients from inhaling potentially pathogenic dust.

The risk from removed material (e.g. nail splinters) is considered low due to the distance from the treatment area.

Removed material potentially containing pathogens could get into open wounds and lead to infection. Therefore, open and untreated wounds of the patient that are in the immediate vicinity of the work area should be covered with a sterile plaster before starting work in order to protect them from any splintering particles and materials potentially containing pathogens.

2.4.8.2 Danger due to moving or rotating parts / instruments

High contact pressure and high speeds can lead to unwanted heat build-up in the area being treated and, in the worst case, heat damage to the tissue being treated.

The user must always be aware that unintentional skin penetration may occur due to user inattention or sudden (reflex) movements by the patient. Pulling movements,

inadequate collet cleaning or excessive speeds for the rotating instrument may cause the instrument to come loose during use and result in injury. However, this risk is very low if the product is handled properly, the care instructions are followed and visual inspection is carried out at all times.

Penetration of the skin must always be avoided!

2.4.8.3 Allergy risk

When used correctly, the patient does not come into contact with the surfaces of the BAEHR PUR, but only with the rotating instruments. Therefore, there may be a tendency to be allergic to components of the rotating instruments. However, since contact times during application are very short (less than 30 minutes), this risk is minimal.

2.4.9 Possible risks for users

2.4.9.1 Hazards from dust and removed material

The suction technology and filter technology used in the BAEHR PUR contribute significantly to minimising potentially pathogenic dust in the ambient air and thus reduce the risk of transmissible germs (microorganisms) and the risk of exposure to potentially increased amounts of dust in the air we breathe. This reduces the risk to the user due to inhalation down to a minimum. Always wear personal protective equipment (such as FFP2 respiratory mask) while working.

Improper treatment and touching the device or the handpiece without disposable gloves could result in a risk from transmissible pathogens. This risk is minimised by the proper implementation of cleaning and disinfection measures and the wearing of disposable gloves and personal protective equipment.

The danger posed by removed material (e.g. nail splinters) poses a risk to the user due to the proximity to the treatment area. The user must therefore wear eye, mouth and nose protection during treatment to minimise this risk.

2.4.9.2 Danger due to moving or rotating parts and instruments

Loose objects such as hair, clothing, jewellery, etc. can become caught and wound up in the rotating parts and instruments. To avoid injury, the user must ensure that such loose objects do not get into the area of moving parts (rotating instruments). If necessary, hair must be tied back or a hairnet must be worn. The user must also take care not to get caught in moving parts (rotating instruments) when choosing work clothing. These measures minimize the risk of injury.

To avoid damaging or scratching the device, and for reasons of hygiene, do not wear rings or other jewellery during use.

Pulling movements, inadequate collet cleaning or excessive speeds for the rotating instrument may cause the instrument to come loose during use and result in injury. This risk is minimised by correct handling and by observing the care instructions. It is also recommended to wear safety goggles or face protection when using the product.

2.4.9.3 Allergy risk

The possibility of allergies to the materials used in BAEHR PUR cannot be ruled out, but can be categorised as extremely low. This can be further minimised by wearing disposable gloves. Disposable gloves should also be worn for hygiene reasons during every use.

2.4.10 Information on electromagnetic compatibility

Based on EN 60601-1-2 on electromagnetic compatibility of electromedical devices, we hereby inform you that:

- Medical electrical equipment is subject to special precautions regarding electromagnetic compatibility and must therefore be operated in accordance with the requirements of this user manual.
- Only original supply cables and spare parts may be used.

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Only use power cables approved by the manufacturer to operate your device. If you need a new power cable, please contact the manufacturer (see chapter 9 "Contact address & manufacturer"). Operation using a different power cable is not permissible.

2.4.11 Important safety instructions

Important! Please read all safety instructions carefully before using the product. Follow the safety instructions to avoid injuries and life-threatening situations.

The device is not authorised for operation in potentially explosive atmospheres.

Before each use, the user must ensure that the device is functionally safe and in proper condition.

Improper handling, maintenance and care can lead to premature wear and malfunctions. A reduction in the product's service life can result.

► Therefore, clean and maintain the device regularly and properly and have it serviced regularly (refer to the service instructions or within 24 months at the latest).

Damaged functional parts can cause damage or injury to persons or objects. In addition, it may cause (even greater) damage to your device.

► Therefore, stop working immediately and disconnect the device from the power supply if functional parts are damaged and contact the service centre.

The functioning of implanted systems (e.g. pacemakers) can be affected by electromagnetic fields.

► You should therefore ask your patient whether they are wearing such a system before starting treatment. If so, please observe the following instructions.

In rare cases, the functioning of other medical devices may be affected by electromagnetic fields.

► Therefore, keep a minimum distance of 30 cm from other medical devices.

Due to the complex interactions between electrical devices and mobile phones, it is not possible to completely rule out the possibility of the device being affected by a mobile phone in operation, even if the device meets the applicable requirements with regard to electromagnetic fields.

► Therefore, do not use mobile phones during work and also inform your patients that they should switch off their mobile phones during treatment.

► Therefore, take off electronic devices that could cause an interaction (e.g. hearing aids etc.) during operation.

► Alternatively, the distance between the device and the upper body of the person being treated must be at least 50 cm in order to rule out any malfunctions that may occur.

When putting the handpiece down, there is a risk of injury when reaching for the handpiece. Infections can be caused by injuries from used instruments.

► Therefore, make sure that you place the handpiece down safely and do not injure yourself.

ATTENTION! The device must be connected to a proper socket.

2.4.12 Feedback for the manufacturer

Please report all serious incidents (damage, injuries, infections, etc. for both patient and user) that have occurred in connection with the product as well as any other feedback on the foot care device to us, Gustav Baehr GmbH, either via your sales representative, the head office (+49 7151 95902-0) or directly to the person responsible in accordance with MDR Art. 15 at vigilanz@gustav-baehr.de. For further information **see chapter 9 "Contact address & manufacturer".**

In case of doubt in the event of serious incidents, you can also contact the German Federal Institute for Drugs and Medical Devices (BfArM) directly.

At https://www.bfarm.de under "Medical Devices" you will find the relevant form as an online form or as a fillable PDF, as well as other current contact options.

3. Before initial commissioning

3.1 Scope of delivery

Before commissioning, you should check the delivery for completeness and any externally visible damage. Before using the device on a patient for the first time, check that it is functioning properly in conjunction with the rotating instruments you have chosen. The following can be found in the BAEHR PUR scope of delivery:

- 1 x PUR control unit
  incl. handpiece
  incl. inserted dust bag
  and inserted filters
- 1 x mains cable
- 1 x tool and cleaning set
  1 x collet cleaner 1
  1 x collet cleaner 2
  (cleaning brush)
  1 x instrument changing aid
  1 x 70 % alcohol
  1 x special tool
  for handpiece removal round
  1 x special tool
  for handpiece removal flat
- 1 x spare parts set
  1 x brake
  3 x O-ring 3 mm x 0.5 mm
  1 x coupling
- 1 x cleaning brush
  for hose inner cleaning
  incl. feed-through aid
- 1 x replacement filter set
  1 x turbine protection filter
  1 x activated charcoal filter
  1 x ultra-fine filter fleece
  1 x coarse filter fleece
- 1 x BAEHR PUR dust bag
- 1 x user manual

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If your delivery is incomplete, please let us know immediately.

If you would like to reorder articles, you will find information and article numbers in **chapter 8 "Spare parts, consumables and accessories".**

Please keep the shipping carton including packaging accessories in a safe place. The packaging has been developed for this device and offers the best possible protection during transport. Therefore, please use the original packaging if you want to send your device in for service or repair. There is no warranty for damage caused during transport due to inadequate packaging.

3.2 What to consider before each commissioning!

It is essential that you read this section with the utmost care! It contains important information to protect you, others and the device from harm!

The term BAEHR PUR used in this section refers to both the control unit and the handpiece.

Before use, please check whether the current type and mains voltage of the power source are suitable for the use of the device. Information on the current type and mains voltage can be found on the type plate on the underside of the control unit

When setting up the device, ensure that it is standing securely on a level surface, cannot fall over, and that the exhaust air can escape easily.

Make sure that the BAEHR PUR is kept out of the reach of children.

Do not expose the device to direct heat sources (heaters, blazing sun, etc.).

Make sure that the power cable is not damaged by crushing, bending or rubbing against sharp edges. If you notice any damage to the power cable, stop working with your device immediately, switch off the main switch (11) and immediately pull the power plug (28) out of the socket. To be able to use the device again, please order a new power cable. You may only use power cables approved by the manufacturer to operate your device. If you need a new supply line, please contact the manufacturer. Operation using other power cables is not permitted.

Never operate the device with a damaged power cable under any circumstances.

Your device has a detachable device connector (see chapter 4.1.6 "Rear view"). Always ensure that the device is positioned so that the device plug can always be easily removed.

Do not work with the BAEHR PUR in rooms that are too humid, such as saunas or swimming pools. Moisture and humidity on the control unit can cause dangerous leakage currents, which poses the risk of electric shock.

Before each use (including the first use), make sure that the dust bag and all other filters are correctly inserted. Never operate the device if all filters are not correctly installed.

Also avoid excessive exterior temperature differences. This can cause moisture (condensation).

Protect the BAEHR PUR from frost.

If the device is damaged or malfunctions, immediately unplug it from the socket.

The manufacturer assumes no liability for damage to objects, animals or persons caused by incorrect use, in particular outside the intended purpose of the BAEHR PUR.

Rings or jewellery that you wear at work can cause scratches on the handpiece. Such damage is excluded from the warranty. You should always refrain from wearing jewellery at work.

Please ensure that the BAEHR PUR, including the instruments, is always in a hygienically perfect condition so that you do not endanger the health of yourself or others. More information is available in **chapter 5.4 "Care (cleaning and disinfection)"** for the BAEHR PUR. The device must be switched off and disconnected from the power supply before any cleaning or maintenance.

Never immerse the device in liquids or vacuum up any liquids.

If you vacuum up cotton, paper or similar, the suction openings in the handpiece may become clogged. This can significantly reduce the suction power.

When the display shows "100%" (dust bag full), you should change the dust bag. The display can only work reliably if all filters are correctly installed. Therefore, only work when all filters are in place. For information on how to change the dust bag and filters, please refer to **chapters 5.2 "Changing the dust bag" and 5.3 "Changing the filter"**.

Never operate the device without the dust bag or filters in place, as doing so may damage the device and void the warranty.

Before each use, check that the rotating instrument can be fully inserted into the handpiece and sits well (no play, no scratching). Ensure that the rotating instrument is not damaged (e.g. by checking the shank with a cutter gauge). Ensure that the rotating instrument is not damaged (e.g. by checking the shank with a cutter gauge).

ATTENTION! Risk of injury! As shown below (see Fig. 3), you should avoid "pulling movements" while working, as otherwise the instruments may slip out.
When working, be careful not to apply too much pressure to the instrument (risk of skin burns).

Fig. 3: Incorrect working

Fig. 4: Correct working

EN

4. Description of the device

4.1 Control unit description

4.1.1 BAEHR PUR front view

Fig. 5

(1) Touch display

To ensure the touch-display responds to your touches as best as possible, you should position the device in front of you so that you are looking at the screen head-on and not from the side or above.

4.1.2 Side view with handpiece holder (optional)

Fig. 6

(2) Handpiece holder (optionally available) using the screws supplied with the handpiece holder and screw it to the designated fastening points (16) **(see chapter 4.1.7 Underside view**)

The handpiece holder is designed to allow you to safely place your handpiece so that it cannot fall down. If you do not attach the handpiece holder to the device, please ensure that you always place your handpiece securely so that it cannot fall and become damaged.

EN

4.1.3 Side view with dust bag cover (closed)

Fig. 7

(3) Dust bag cover
(4) Handpiece outlet
(5) Suction hose with internal handpiece supply cable and strain relief

4.1.4 Side view without dust bag cover, with turbine protection filter (open)

Fig. 8

(6) Dust bag chamber with filter grid
(6a) Turbine protection filter

EN

4.1.5 Dust bag cover (inside)

Fig. 9

(7) Fixture nozzles for dust bag
(8) Dust bag cover rubber seal
(9) Dust bag

4.1.6 Rear view

Fig. 10

(10) Filter cover (exhaust air filter)
(11) Main switch ON / OFF
(12) Fuse drawer for micro fuses 2 x 3.15 A inert (type H)
(13) Low power socket
Only connect the supplied or manufacturer-approved low power connection cable here.

When working out of a case, we recommend positioning the device in such a way that any heat generated on the device can escape from the case and possible heat build-up is avoided.

EN

4.1.7 Underside view

Fig. 11

(14) Nameplate

Explanations of this labelling can be found in **chapter 2.2.2 "Nameplate with performance data on the device"**

(15) UDI labelling

Explanations of this labelling can be found in chapter 2.2.3 "Other labels on the device"

(16) Fixing points for handpiece holders (screw holes)

(17) Housing seal

As soon as the housing seal is broken or removed, all warranty claims are void!

(18) Rubber feet (4 x)

(19) Ventilation holes (2 x)

Always be sure to keep the ventilation holes clear.

All housing screws may only be removed by the manufacturer, otherwise any warranty claim will be void!

EN

4.2 Handpiece description

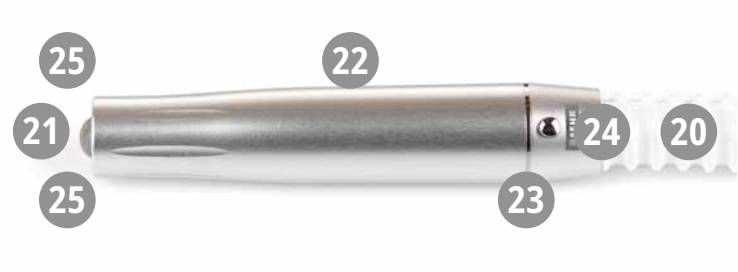

Fig. 12

(20) Suction hose
(21) Opening for DIN instruments with standardised shaft diameter according to DIN EN ISO 1797 of 2.35 mm, cylindrical TYPE 2 (for instruments with max. diameter of 13 mm)
(22) Handpiece sleeve (unscrews)
(23) Handpiece cap
(24) Button plunger
(25) Port for air supply

Max. instrument diameter no larger than 13 mm
CAUTION: Always observe the maximum permissible instrument diameter and the corresponding maximum permissible speed of the instrument manufacturer.
Ensure that these are not exceeded under any circumstances, as this could result in serious injury to the patient and the user. Moreover, vibrations can result on the handpiece. Please think of your safety and the safety of your patient.

Do not use rotating instruments larger than shown!
Only use aluminium oxide, diamond and stainless steel milling cutters and grinding caps!

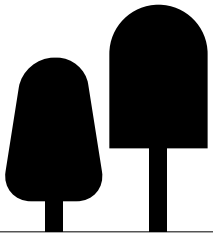

Fig. 13

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Do not use a higher speed for the instrument you are using than indicated in the orientation guide on the touch-display or the maximum speed allowed by the instrument manufacturer. (See chapter 4.4.3 "Orientation aid")

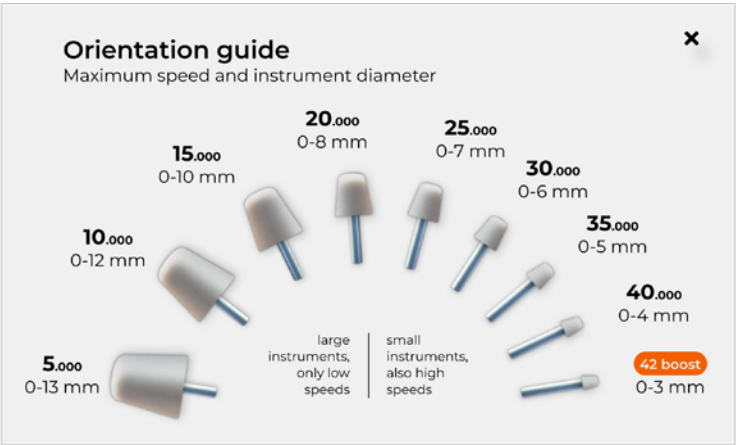

Fig. 14

4.3 Low power connection cable description

Fig. 15

(26) Device plug
(27) Cable with ferrite core
(28) Power plug

EN

4.4 Touch display

The BAEHR PUR has a modern touch screen display with various user interfaces to control your machine and make settings. Various information and instructions are also available on the touchscreen. The various user interfaces are explained below.

4.4.1 Initial commissioning using the set-up wizard

Use the main ON / OFF switch (11) to switch the device on.

The first time you switch on your device, a set-up wizard will appear as soon as the system has started up, allowing you to set your own basic preferences. This only appears when the device is first switched on (or reset to factory settings), but can be restarted at any time from the "Start set-up" menu.

In principle, all settings can be changed at any time in the "Settings" menu.

The following settings are made with the set-up wizard

- Language
- Occupational group
- Parameters on start (handpiece speed and suction level)

Your device now always starts with these settings.

Alternatively, if you do not wish to define any start-up parameters, you can select the "Retain last settings on power down" option in the "Operating configuration" menu. Your device will then generally start with the parameters that were set when it was switched off.

For safety reasons, handpiece speeds above 25,000 rpm and suction levels above 8 are not offered.

At the end of the set-up wizard, you have the option of taking a guided tour through the most important functions of your BAEHR PUR. To do this, scan the displayed QR code with your mobile device.

EN

4.4.2 Main screen

The device can be operated on the main screen and information on the set power values is displayed.

Fig. 16

4.4.2.1 Start / stop button (A)

The start / stop button in the centre of the screen is the first thing you notice. When actuated, the system switches between "Ready for operation" and "Operation".

Ready to operate:
The Start icon is on the button
► Handpiece and suction are OFF

Operation:
The Stop icon is on the button
► Handpiece and suction are ON

► There is also a rotating ring around the stop icon. The ring rotates to the right or left according to the set direction of rotation of the instrument.

4.4.2.2 Handpiece speed scale (B)

The speed scale shows the speed range of the handpiece motor and the currently set speed value. The speeds are displayed as revolutions per minute without the thousand zeros.

There are several ways of changing the speed:

1. Selection by touching a desired speed directly on the scale (this also applies to the "boost" function) - the speed can be selected in the 5,000 range.

2. By sliding the slider up or down - the speed can be changed in increments of 1,000.

3. Using the two buttons (either by repeatedly tapping the buttons or by touching and holding) - the speed can be changed in increments of 1,000.

EN

4. By clicking on the milling cutter image (K) and selecting an instrument in the orientation guide **(see chapter 4.4.2.7 "Instrument symbol (K)" and chapter 4.4.3 "Orientation guide")** - the recommended speed for the selected instrument is set.

The currently selected speed value is displayed with the large number between the plus and minus buttons. The instrument icon (K) changes depending on the set speed.

4.4.2.3 Rotational direction (C)

The set direction of rotation of the handpiece motor is displayed here; the direction of rotation is changed when touched. When the handpiece is running, the handpiece is stopped and then restarted with the direction of rotation changed.

4.4.2.4 Suction scale (D)

The suction scale shows the possible suction levels and the currently set suction level.

There are several ways to change the suction level:

1. Select by touching a desired suction level directly on the scale (this also applies to the "boost" function).

2. By moving the slider up or down.

3. Via the two buttons (either by repeatedly tapping the buttons or by touching and holding).
The set suction level is displayed with the large number between the plus and minus buttons.

When you are working with the BAEHR PUR, it is not possible:

- to operate the handpiece motor without the suction
- to operate the suction without the handpiece motor

This is a deliberate choice, as it prevents the handpiece motor from heating up, and also ensures that dust generated during work is always extracted.

For hygiene reasons and for your personal protection, we recommend that you select a high suction level. We only recommend using a low suction level if you are in a noise-sensitive environment. Think about your health and that of your patients.

4.4.2.5 Memory buttons (E)

The display has three memory buttons M1, M2, M3, on which you can save your settings and call them up quickly at any time. Storage and retrieval is possible both during operation and at standstill.

When touched and held (approx. 2 seconds), the currently selected handpiece speed, direction of rotation and suction level are stored on the respective memory button.

When touched (briefly), the stored values are loaded and adopted as the setting.

You can delete the settings of a Memory-Button as follows:

- Select the memory button whose settings you want to delete by briefly pressing it once. Press the Memory-Button again until the confirmation tone sounds once. You can recognise that the values have been deleted by the missing ring markings on the memory button.
- When saving, press and hold the button until you hear the confirmation tone.

Please note the following: If you press and hold a memory button for longer than 2 seconds, the currently set values are saved on the memory button. If you save the same values on the memory button again, the values of the memory button will be deleted.

4.4.2.6 Status bar (F)

The Quick-Settings menu opens by touch the status bar (F). Here you have the option of reading and confirming the displayed messages **(see chapter 4.4.5 "Quick settings menu").** During operation, the status bar is locked and the Quick-Settings menu cannot be opened. Furthermore, the following information is displayed on the status bar:

4.4.2.6.1 Number of messages (G)

This display only appears once a maintenance step or another important instruction is necessary. This message is also displayed in the Quick Settings menu and you can view information about the corresponding message **(see chapter 4.4.5 "Quick Settings menu").**

4.4.2.6.2 Dust bag fill level (H)

You can use this information to recognise when it is time to change the dust bag.

Here, "full" does not necessarily mean that the dust bag is filled "to the brim", but that the desired suction performance can no longer be achieved because the pores of the dust bag become more and more clogged. Your device informs you of this in 2 stages:
90 % (highlighted in yellow) - you should change the dust bag soon
100 % (highlighted in orange) - you should change the dust bag before the next treatment

To change the dust bag, please refer to **chapter 5.2 "Changing the dust bag".** Please never use used dust bags, especially due to hygiene reasons.
Please follow the instructions given by the device. Think about your health and that of your patients.

The function of the level indicator is influenced by several factors. For technical reasons, the level indicator may therefore react differently in the various suction levels (e.g. depending on how the hose/handpiece is positioned).

4.4.2.6.3 Time (I)

You can set the current time in the "Date and time" menu

4.4.2.6.4 Date (J)

You can set the current date in the "Date and time" menu

4.4.2.7 Instrument icon (K)

The instrument icon shows which instrument group is recommended for the currently selected handpiece speed. The icon corresponds to the original size of the instrument. You can therefore hold your inserted instrument in front of the instrument icon to check whether it is suitable for the selected handpiece speed. Be careful not to touch the glass cover of the touch display.

Hold the handpiece with the instrument at a short distance in front of the guide and only with the handpiece motor switched off, as the glass cover of the touch-display can be damaged if it comes into contact with a (rotating) instrument!

Touch the instrument icon and the orientation guide opens **(see chapter 4.4.3 "Orientation guide").** This function is deactivated when the handpiece motor is running. It is also not possible to start the handpiece motor while the orientation guide is open.

EN

4.4.3 Orientation guide

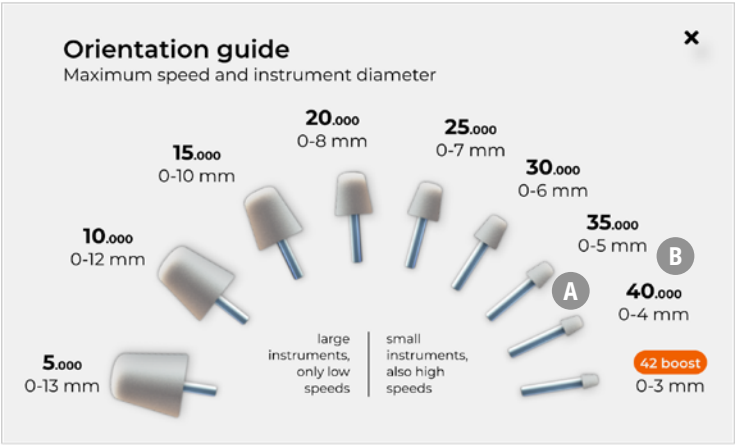

Fig. 17

The orientation guide shows various instrument diameters and the maximum recommended speed.

When you select an instrument (A) or the corresponding values (B) in the orientation guide (corresponding to the instrument currently in use), this user interface is closed and the maximum recommended speed for the corresponding instrument is set on the device.

You can compare the size of the instrument you are using with the illustration to find out which instrument or speed you need to select.

The instrument heads shown on the orientation guide are intended as a guide to help you find the maximum speed for your instruments. Before working with an instrument, however, it is essential that you observe the manufacturer's specifications regarding the maximum permitted speed. The maximum speed specified there must not be exceeded under any circumstances. There is a risk of injury and that your device suffers damage.

EN

4.4.4 Display “orange instrument icon”

Fig. 18

There are two options why this screen is displayed:

1. If the handpiece is overloaded during use

2. If a system error occurs

If either of these occurs, the handpiece motor and the suction unit switch off for safety reasons (for patient and device protection):

- The instrument icon is displayed in orange.
- A message is produced in the message display.
- All motors are switched off (handpiece off, turbine off).
- The start / stop button is disabled, which means that the device cannot be started.

Check the message list to see which case it is:

Overloaded at 1. Handpiece

By reading the message or touching the orange instrument icon, the message will be displayed without colour and all functions will be available again.

At 2. System error code:

A system error code is displayed in the corresponding message. An overview of selected system error codes, the causes of which you can resolve yourself, can be found in **Chapter 5.9.1 “System error code display on touch display”**. In addition, please contact the manufacturer in the event of any faults / malfunctions **(see chapter 9 “Contact address & manufacturer”).**

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4.4.5 Quick-Settings menu

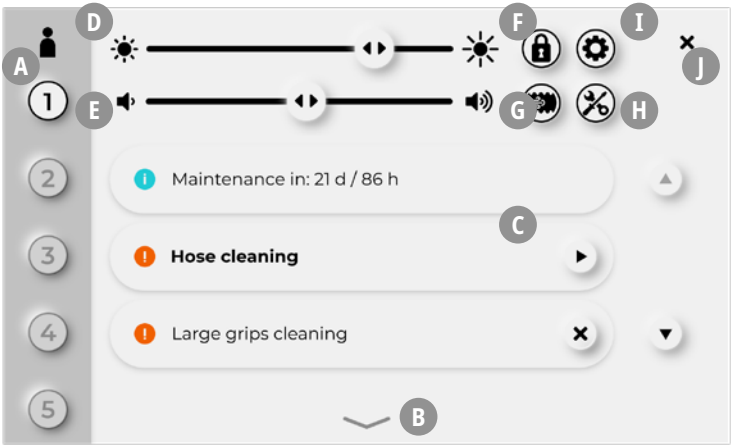

Fig. 19

Touching the status bar opens the Quick Settings menu.

During operation, the status bar is locked for your own safety and the Quick Settings menu cannot be opened. Conversely, your BAEHR PUR cannot be started using the button on the handpiece if the Quick Settings menu is open (this also applies if other menus are open).

You can close the menu in two different ways. Either by touching the X button (J) or by touching the menu arrow (B).

You have the following options in the Quick Settings:

4.4.5.1 User profiles

To simplify the handling of several users, you will find the option of saving up to 5 user profiles with individual settings in the Quick Settings menu on the left-hand side. In the user profiles, you can make the following individual settings in addition to the general device settings (e.g. language):

- Memory buttons
- Colour code

1. Application: Several users share one device and can individually set memory buttons and colour modes by selecting their user profile.
2. Application: One user - different applications, e.g. practice, mobile use, care home, etc. A user profile can be defined for each area of application with individually set memory buttons and colour modes.

The active user profile is displayed via the highlighted button with a black number. All inactive user profiles can be identified by the grey buttons.

To select a user profile, simply touch the respective button. This will take you directly back to the main screen.

Changes made in a user profile are immediately effective. Explicitly pressing save is not necessary.

Configuring the user profile

1. Select a user profile: You will go directly to the main screen.
2. Configuration of Memory-Buttons **(see chapter 4.4.2.5 "Memory-Buttons (E)").**
3. Colour mode configuration: Select colour mode via the Status bar/Quick Settings menu/Settings.
4. Use the user profile.

When switched off and on again, the device starts with the last selected user profile.

By resetting to factory settings you reset all user profiles.

4.4.5.2 Notes / messages (C)

Here you will find the notes/messages that currently need to be observed (and are displayed in the message counter on the main screen).

Touching the message or the arrow button opens the information text for the corresponding message so that you can read what needs to be done. As soon as you have opened, read and exited the message text of a message, this message is no longer displayed in "BOLD". In addition, the information is no longer listed in the message counter on the main screen.

When you leave the message text, instead of the arrow button, you will see an X button next to the message, which you can use to confirm that the message is "Done" so that it no longer appears in the message list.

One of the message displays is a maintenance interval display. This shows you when your device needs to be sent in for servicing. The maintenance interval is 900 hours and refers to the hours of operation of the handpiece motor since delivery / last maintenance. As soon as the message "Maintenance due" appears in the message list (or within 24 months (= 730 days); this time interval is displayed by the device in days), you must send your device in for maintenance in order to prevent time-consuming and cost-intensive repairs and to comply with the VDE 0751-1 test specifications for your medical device.

Your device remembers for you so that important test dates are not forgotten.

4.4.5.3 Slider for brightness (D) / tone volume (E)

You can use the two sliders for brightness (D) and sound volume (E) for system sounds to customise the device to your requirements.

For reasons of operating safety, we recommend that you do not turn the volume down completely!

4.4.5.4 Other selection options

The buttons F to I have the following functions:

Button
for lock screen (F)

Selecting this button displays the lock screen, which allows you to clean the display without triggering any action on the device. Press the release button for approx. 3 seconds to unlock.

Button
for quick hose cleaning (G)
(see chapter 5.4.5)

Button
for maintenance assistant (H)
(see chapter 5.4.1)

Button
for "Settings" (I) menu
(see chapter 4.4.6)

EN

4.4.6 Settings menu

The "Settings" menu provides you with the following information and setting options:

- Device info
- Maintenance wizard
- Date and time
- Colour code
- Messages
- Operating configuration
- Language selection
- First steps
- Start set-up (= set-up wizard)
- Factory settings

The settings can be made by touching the corresponding button. You will be guided through the setting options in the respective user interface.

Touching the X button takes you back to the main screen.

You cannot make any changes in the "Device info" menu item! This point is only available to view.

Your BAEHR PUR undergoes various quality checks before delivery. Among other things, your BAEHR PUR will be subjected to a functional test. Therefore, please do not be surprised if the device already shows some counter readings. This is perfectly normal and does not mean that it is a second-hand device.

If you reset the device to the factory settings, all settings (including the memory button settings) are reset to the factory settings. The information (counter readings etc.) is excluded from this.

4.5 Commissioning

1. Make sure that a dust bag is inserted in your BAEHR PUR. To do this, you must remove the dust bag cover from the control unit **(see chapter 5.1 "Opening / closing the dust bag lid on the control unit").** A dust bag is pushed all the way onto the holder (7) on the inside of the dust bag cover. The turbine protection filter is also located in the dust bag chamber (6). If everything is OK, reconnect the dust bag cover to the control unit. If the dust bag is missing, you must insert a new dust bag before working with the device **(see chapter 5.2 "Changing the dust bag").**
2. Please ensure that the device is secure, cannot fall or be pulled down and that the exhaust air can escape easily.
3. Check whether the main switch (11) is set to OFF (O).
4. Plug the supplied mains cable (27) with the device plug (26) into the power socket (13).
5. Insert the mains plug (28) into a proper earthed socket.
6. Now switch on the BAEHR PUR using the main switch (11). The device starts and the system boots up. After a brief display of the BAEHR logo, the main screen appears (unless you are switching on the device for the first time or after resetting to the factory settings, in which case the set-up wizard starts **(as described in chapter 4.4.1 Initial commissioning using the set-up wizard).** The device is ready to operate after approx. 20 seconds.

The following values are set after each switch-on:

- Direction of rotation = as when you switched the device off
- Handpiece speed = as you entered it in the set-up wizard or as you shut down the device, **see chapter 4.4.1 "Initial commissioning using the set-up wizard"**
- Handpiece motor = stop
- Suction level = as you entered it in the set-up wizard or as you shut down the device, **see chapter 4.4.1 "Initial commissioning using the set-up wizard"**
- Suction = stop

These settings are also shown on the touch-display. The BAEHR PUR is now ready to operate.

To ensure that the touch screen responds as well as possible to your touches, place the device in front of you so that you are looking at the screen from the front and not from the side or top.

7. Now take the handpiece in your hand and insert an instrument with a shank diameter of 2.35 mm as deeply as possible into the opening for DIN instruments (21). Only use instruments with a standardised shank diameter according to DIN EN ISO 1797 of 2.35 mm, cylindrical TYPE 2. As the BAEHR PUR has a quick-release collet, the instrument only needs to be inserted (completely) as deeply as possible for a secure hold. The head of the instrument must not be larger than the largest instrument head shown in the orientation guide (max. 13 mm).

Never use instruments with oily, worn, scratched or bent shanks. Otherwise it is not guaranteed that your instrument will be held firmly in the handpiece! This can also cause an imbalance in the handpiece, which can damage the handpiece. The imbalance can also impair the secure hold of the instrument.

CAUTION risk of injury! Never attempt to insert or remove instruments from the port (21) while the handpiece motor is running. Instruments may only be changed with the handpiece motor switched off.

The instrument heads shown on the orientation guide (Fig. 17) serve as a guide to determine the maximum speed for instruments. Before working with an instrument, be sure to check the manufacturer's specifications regarding the maximum permitted speed. This must never be exceeded. There is a risk of injury and that your device suffers damage.

8. Now select the maximum permitted speed or another required speed below this for the instrument you are currently working with. The instrument heads shown (max. diameter) and the corresponding speed should help you to quickly and reliably find the maximum permitted speed for your instruments. The maximum permitted speed must not be exceeded under any circumstances, otherwise the instrument or the handpiece may be damaged. Injuries can also be caused by broken instrument heads. You can find the correct maximum permitted speed for the instrument you are currently using by comparing the instrument head diameter on the orientation guide (Fig. 17) with the instrument heads shown. If you have found a match, touch the instrument head shown in the picture with your fingers (do not touch the glass surface with the instrument). The permitted maximum speed is now set. The speed is indicated to you on the display. Lower speeds are generally permitted for all instruments. In addition to the instrument heads shown, you can also select the corresponding values to set the corresponding maximum speed for the respective instrument.

Hold the handpiece with the instrument at a short distance in front of the guide and only with the handpiece motor switched off, as the glass cover of the touch-display can be damaged if it comes into contact with a (rotating) instrument!

This is a speed recommendation. Please refer to the instrument manufacturer's data sheet for the maximum permitted speed of the instrument. The maximum permitted speed must not be exceeded under any circumstances, otherwise the instruments or the handpiece may be damaged. Injuries can also be caused by broken instruments.

EN

Before each use, check that the rotating instrument can be fully inserted into the handpiece and is a good fit (no play, no scraping). Ensure that the rotating instrument is not damaged (e.g. by checking the shank with a cutter gauge). Ensure that the rotating instrument is not damaged (e.g. by checking the shank with a cutter gauge).

9. You can now switch on the handpiece motor using the start / stop button in the centre of the touch-display or the button plunger (24) on the handpiece. The arrow on the start / stop button turns into a stop icon, the handpiece and suction are on. The rotating ring around the stop icon rotates to the right or left depending on the set direction of rotation of the instrument. The instrument rotates at the speed you set and the suction works at the set suction level. You can now change the motor speed of the handpiece using the speed scale, but you must not exceed the maximum permitted speed for the instrument in use. The selected speed is shown on the display.

If you change the speed in increments of 1,000 (using the + and - buttons or the slider), note that the maximum allowed instrument size also changes when you reach the next defined maximum speed. This is indicated by the corresponding instrument illustration above the start / stop button. The actual speed is shown on the display.

Example: The speed is set to 5000 rpm. Now press and hold the (+) button until you reach the next preset speed (10,000 rpm). The instrument head displayed above the start / stop button will change to the next smaller instrument head. This will draw your attention to the fact that a different maximum instrument diameter must now be used.

The instrument heads shown on the orientation guide are intended as a guide to help you find the maximum speed for your instruments. Before working with an instrument, however, it is essential that you observe the manufacturer's specifications regarding the maximum permitted speed. The maximum speed specified there must not be exceeded under any circumstances. There is a risk of injury and that your device suffers damage. The maximum speed for the instrument being used may not be exceeded.

Be careful not to block the handpiece motor by overloading it. This can happen, for example, if your instrument gets caught in something (e.g. a towel) while you are working. Then switch off your device as quickly as possible using the main switch (11) or disconnect it from the mains as quickly as possible. Once the device is disconnected from the power supply, remove the blockage and check your device for damage (e.g., damaged instrument or handpiece).

Only reconnect the device to the power supply and switch it back on if you cannot detect any damage. Now check your device at a speed of 5,000 rpm using a small instrument (max. Ø 7 mm) and carefully test the complete speed range step by step. If you can't find anything here either, you can carefully continue your work.

10. You can change the suction level using the suction scale. The selected suction level is shown on the display.
11. You can switch the handpiece motor and the suction turbine on/off using the start / stop button on the control unit or the button plunger (24) on the handpiece.

Please note that the suction will automatically switch off as soon as you switch off the handpiece motor.

12. Using the direction of rotation button, you can switch the direction of rotation of the handpiece motor to left or right (e.g. for right- or left-handed users). This is shown on the display by the rotating ring around the stop icon turning to the right or left depending on the set direction of rotation of the instrument.

It is also possible to change the direction of rotation while the handpiece motor is running.

13. You can make changes:

· before the handpiece motor is in operation
  ► when the handpiece motor is switched on, the device functions with the preset values
· whilst the handpiece motor is in operation
  ► changed settings become immediately effective

Before each use, check that the rotating instrument can be fully inserted into the handpiece and is a good fit (no play, no scraping). Ensure that the rotating instrument is not damaged (e.g. by checking the shank with a cutter gauge). Ensure that the rotating instrument is not damaged (e.g. by checking the shank with a cutter gauge).

We are convinced that after a short time you will be able to work safely and correctly with your BAEHR PUR and we wish you enjoyment and success in your work!

4.6 Instrument changing aid

Fig. 19a
Instrument changing aid

To match your Easy-Clean Pro collet, we have developed an instrument changing aid to make it easier for you to change (remove and insert) very small instruments (instrument diameter: approx. 1.5 mm - approx. 5.0 mm).

Be sure to read the following instructions with the utmost care! They contain important information to protect you, others and your device from damage! It must only be used by trained qualified personnel.

CAUTION risk of injury! Never attempt to change instruments on the handpiece while the handpiece motor is running. This may only be done with the handpiece motor switched off.

Only the appropriate tool may be used to change instruments. Other types and areas of use are at your own risk and may involve dangers. Any other purpose of use is not permitted.
Improper use can result in damage to persons and property. The manufacturer cannot be held responsible for damage caused by improper use, unqualified personnel or incorrect operation. **Improper use will invalidate any warranty claims.**

Clean and disinfect the instrument changing aid after each use and ensure that it is always in perfect hygienic condition before use.

EN

For reasons of hygiene, please clean and disinfect the instrument changing aid after use with BAEHR disinfectant concentrate for instruments (art. no. 11008).

The figures are for illustrative purposes only and do not necessarily represent the BAEHR PUR. Technical and visual changes are reserved.

Plug instrument in:

Fig. 20

Insert the instrument shank into the collet of the handpiece.

Fig. 21

Keep the instrument changing aid horizontal to the handpiece.

Fig. 22

Using the countersink on the head of the instrument changing aid, insert the instruments into the handpiece as far as they will go.

Pulling the instrument out:

Fig. 23

Keep the instrument changing aid horizontal to the handpiece. Place the instrument head behind the notch of the instrument changing aid.

Fig. 24

Place your thumb over the notch of the instrument changing aid to prevent the instrument from falling when pulled out.

Fig. 25

Carefully pull the instrument out of the handpiece collet using the instrument changing aid.

At www.fusspflege.com/easy-clean you will also find detailed video instructions on how to use the instrument changing aid.

EN

5. Maintenance and care

How to carry out various maintenance tasks on your BAEHR PUR is explained in the following chapters.

All figures are for illustrative purposes only. Technical and visual changes are reserved.

5.1 Opening / closing the dust bag cover on the control unit

5.1.1 Opening

To open the dust bag cover on the control unit, please proceed as follows:

Hold the dust bag cover by the handle (3) and pull it off the control unit (see Fig. 26). When you pull it off, you will feel a slight resistance caused by the magnetic closures.

5.1.2 Closing

Before refitting the dust bag cover, check that the rubber seal (8) is correctly seated, clean and in perfect condition so that it seals airtight.

To close the dust bag cable on the control unit, please proceed as follows:

Guide the dust bag attached to the dust bag cover into the dust bag chamber and make sure that it does not get caught or jammed anywhere.

The magnets pull the dust bag cover towards the housing and therefore close it (see Fig. 27).

Check that the dust bag cover is securely attached to the housing and is a good fit everywhere.

When changing the dust bag, make sure that you do not pinch the dust bag between the control unit and the dust bag cover. If this is the case, remove the dust bag cover again and make sure that the dust bag is not pinched when closing it.

Before closing the dust bag cover and resuming work, always make sure that the turbine protection filter (rectangular) is inserted and that you have correctly attached an undamaged dust bag to the dust bag holder (7) for the dust bag (9) so that no debris can enter the turbine and damage the machine.

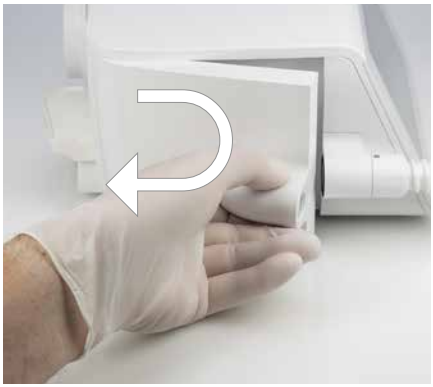

Fig. 26: Opening

Fig. 27: Closing

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5.2 Changing the dust bag

The dust bag (9) must always be replaced as soon as possible as soon as the dust bag fill level shows "100 %" (for more information, **see chapter 4.4.2.6.2 "Dust bag fill level").**

We recommend changing the dust bag every 3 weeks to avoid an excessive accumulation of germs. To change the dust bag, please proceed as follows:

1. Disconnect the dust bag cover from the control unit **(see chapter 5.1 "Opening / closing the dust bag cover on the control unit").**
2. Remove the old dust bag from the fixture nozzle (7). Close the opening of the dust bag with the cardboard flap, which is located on the cardboard reinforcement of the dust bag, by folding it over the opening. Dispose of the dust bag, ideally in a ziplock bag.
3. Clean the dust bag chamber and the dust bag cover every time you change the dust bag to ensure perfect suction performance and to prevent the formation of germs. Think about your health!

   For cleaning, we recommend BAEHR alcohol-free quick disinfectant wipes (art. no. 11000, 11001, 11044).
4. Carefully push the new dust bag with the opening as far as it will go onto the holder (7) until the (cardboard) reinforcement is fully in contact with the dust bag cover. Make sure that you position the dust bag so that it fits exactly in the recess provided.

   Make sure that you do not damage the dust bag when pushing it on and do not bend the folds.
5. Reattach the dust bag cover to the control unit **(see chapter 5.1 "Opening / closing the dust bag cover on the control unit").**

5.3 Filter change

We recommend changing the dust bag regularly (at least every 3 weeks) and all filters at least every 6 months to prevent excessive accumulation of germs. Think about your health! Never use any used dust bags!

Before we describe how to change the filters, we would like to give you a brief insight into the filter system used in the BAEHR PUR.

1. Filter: Dust bag

The dust bag (9) specially developed for the BAEHR PUR with integrated foam block (filter bag design "legally protected in Germany") has a higher dust holding capacity compared to previous alternatives. This is made possible by an innovative pre-filter material made of open-cell foam, which fills the bag as much as possible. Coarser and finer particles are already retained there. This prevents the fine filter from becoming prematurely blocked. The result: consistently high extraction performance and a hygienic working environment at the highest level. The dust bag is located in the dust bag chamber (6) on the receiving socket (7) for the dust bag (9).

You can reorder more dust bags from BAEHR. Never use any used dust bags! Only use the original dust bags, which you will find in **chapter 8 "Spare parts, consumables and accessories"**.

To change the dust bag, please refer to **chapter 5.2 "Changing the dust bag".**

2. Filter: Turbine protection filter

The turbine protection filter (6a) prevents larger parts from getting into the turbines (e.g. if you have forgotten to install a dust bag). The turbine protection filter is located in the dust bag chamber (6) on the grille.

3. Filter cover (exhaust air filter)

The filter cover (10) contains several different fleeces with different properties:

- Coarse filter fleece
  This fleece filters coarser particles from the extracted air.
- Ultra-fine filter fleece
  This fleece filters finest particles from the extracted air. However, the fleece is also responsible for filtering viruses and bacteria from the extracted air.
- Activated charcoal filter
  This fleece ensures that most odours are neutralised.

Please refer to chapter 5.3.2 "Changing the filter (exhaust air filter)" for information on how to change the fleece in the filter cover.

Only the original dust bags and all original filters may be used!

Used filters must not be cleaned or the dust bag emptied and then reused. Always use fresh filters or a new dust bag every time you change the filter.

Dispose of used filters in the general waste. It is best to dispose of them in a ziplock bag.

5.3.1 Changing the turbine protection filter

The turbine protection filter and all other filters must be replaced immediately if you have worked with your BAEHR PUR without a dust bag (forgotten) or if a dust bag has burst.

To change the turbine protection filter, please proceed as follows:

1. Disconnect the dust bag cover from the control unit **(see chapter 5.1 "Opening / closing the dust bag cover on the control unit").**
2. Pull the old turbine protection filter out of the dust bag chamber.
3. Clean the dust bag chamber, the dust bag cover and the filter grid every time you change the filter.

   For cleaning, we recommend BAEHR alcohol-free quick disinfectant wipes (Art. no. 11000, 11001, 11044).
4. Place a new turbine protection filter on the filter grid.
5. Reattach the dust bag cover to the control unit with the dust bag correctly attached **(see chapter 5.1 "Opening / closing the dust bag cover on the control unit")**

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5.3.2 Changing the filter (exhaust air filter)

We generally recommend changing all filters in the device regularly **at least every 6 months.**

You must also change the turbine protection filter and all other filters if:

- ▶ You have installed a new dust bag and the display "100 %" still appears on the status bar.
- ▶ You have the feeling that the "100 %" display on the status bar appears too early after the dust bag has been changed.

To change the filters in the filter cover, please proceed as follows:

1. Remove the filter cover (10) from the device by carefully pulling it sideways away from the device. Use disposable gloves for this purpose.

Fig. 28

When cleaning, take care not to damage the foam inside the device.

2. Remove the filter cover (10) and clean the exhaust air duct on the control unit with BAEHR alcohol-free quick disinfectant wipes (art. no. 11000, 11001, 11044).
3. Remove the ring from the filter cover and dispose of the coarse filter inside.
4. Remove the ultra-fine filter fleece and the activated charcoal filter from the filter cover and dispose of them.
5. It is best to clean the filter cover and the ring with BAEHR alcohol-free quick disinfectant wipes (art. no. 11000, 11001, 11044).
6. Insert the new filters (1. activated charcoal filter, 2. ultra-fine filter fleece).
7. Insert the ring into the filter cover so that the tabs are in the designated recesses. The ring presses the two internal filters firmly together as soon as the filter cover is replaced.
8. Place the coarse filter fleece in the ring. Please note that the coarse filter fleece has a fine and coarse side. The fine side is on the ultra-fine filter fleece. Do not use any pointed or sharp objects.
9. Then put the filter cover back on the control unit so that it clicks into place. Make sure that it is firmly attached to the device.

The filter cover is designed as follows:

Fig. 29

5.4 Care (cleaning and disinfection)

In order to avoid the transmission of pathogens, the requirements of the national authorities responsible for hygiene and disinfection must be observed. Wear personal protective equipment (PPE) for cleaning and reprocessing.

For cleaning and disinfection, we recommend BAEHR alcohol-free quick disinfectant wipes (art. no. 11000, 11001, 11044) or a non-alcohol-based surface disinfectant. Disinfectants and cleaning agents must be used in accordance with the manufacturer's instructions.

Do not use acids, strong alkalis, solvents or corrosive agents for cleaning. The cleaning agents you use must be compatible with the material.

When using disinfectants, the surfaces may become slightly lighter or duller. However, this has no effect on the function or safety of the device.

Never immerse the device and the handpiece in water or other liquids as there is a risk of electric shock.

Do not use disinfectant spray under any circumstances, as this could allow moisture to penetrate the device, which could lead to damage to the bearings or electronics or even pose a risk of electric shock!

5.4.1 Maintenance wizard

You can perform some maintenance/service work yourself. We have set up the maintenance wizard for this purpose, which guides you step by step through the relevant service work.

You can open the maintenance wizard using the button (H) (Fig. 19). Scan the QR code displayed here with your mobile device to access the corresponding maintenance assistant website. Take a look inside to find out which maintenance tasks are clearly explained here.

The maintenance assistant can also be accessed via the following website:
www.fusspflege.com/fusspflegemotoren-wartung

EN

5.4.2 Cleaning / disinfection after each treatment

After each treatment, perform a quick hose cleaning **(see Chapter 5.4.5 "Quick hose cleaning")** and a wipe-down disinfection on the outside of the handpiece, the handpiece holder, the hose and the front of the unit (observe the exposure time, do not wipe dry and allow to evaporate before the next treatment). We recommend BAEHR alcohol-free quick disinfectant wipes (art. no. 11000, 11001, 11044). The validation of this wipe-down disinfection required by ISO 17664-2:2021 was carried out using the alcohol-free BAEHR alcohol-free quick disinfectant wipes (art. no. 11044) with an exposure time of 1 minute.

To clean the touch-display without triggering an action on the device, activate the lock screen with the button (F) (Fig. 19). To unlock, press the unlock button for approx. 3 seconds.

5.4.3 Daily cleaning at work / disinfection

Clean and disinfect your BAEHR PUR every working day or after contamination as follows:

1. **Switch off the device using the main switch (11) or disconnect it from the power supply.**
2. Perform a cleaning wipe disinfection on all surfaces of the control unit.
3. Unscrew the handpiece sleeve (22) from the handpiece cap (23).
4. If necessary, clean the handpiece cap with a small, soft brush to remove visible impurities.

The handpiece cap containing the electronic parts of the handpiece must never be placed in liquid, nor must the handpiece motor.

To facilitate the wipe-down disinfection of the handpiece motor / front part, pull the handpiece motor out of the handpiece cap (see Fig. 45 in **chapter 5.4.9.1 "Disassembly of the hose").** After cleaning and disinfection, push the handpiece motor (with the power cable plugged in) back into the fixtures of the handpiece cap. See Fig. 55 in **chapter 5.4.9.3 "Reattaching the hose").**

5. Wipe disinfect the outside and inside of the handpiece sleeve and the handpiece motor / front part with a non-fixing cleaning and disinfecting wipe (we recommend BAEHR alcohol-free quick disinfectant wipes, 1 min. (art. no. 11000, 11001, 11044); observe exposure time, do not wipe dry and allow to evaporate before assembly).
6. Screw the handpiece sleeve back onto the handpiece cap.

Further manufacturer information (on cleaning, disinfection and sterilisation of rotary instruments) can be found at **www.fusspflege.com** in the download area of the customer portal.

5.4.4 Autoclaving certain parts of the handpiece

The handpiece sleeve (22) (see Fig. 12) and certain parts of the front part of the handpiece (37) (see Fig. 41) can be autoclaved:

Overview of parts *(see Fig. 41 and 42)*	Autoclaving possible	Can be placed in disinfectant
Handpiece sleeve (22)	✓	✗
Handpiece front part mounted (37)	✓	✗
Coupling (36)	✗	✗
Damper (38)	✗	✗
Parts of the handpiece front part removed (see Fig. 42) **except:**	✓	✓
Ball bearings 4 x 9 x 4 (42)	✗	✗
Ball bearing with flange (50)	✗	✗

Table 1

Switch off the device using the main switch (11) or pull the power plug (28) out of the socket.

To prepare, unscrew the handpiece sleeve (22) from the handpiece cap (23) (see Fig. 12) and detach the front part of the handpiece from the handpiece motor (35) (see Fig. 41) (using the flat special tool, **see chapter 5.4.10.1 "Instructions for disassembling the handpiece").**

Make sure to hold the handpiece upwards to avoid losing the small coupling (36), which may fall out during this step. To unscrew the handpiece front part, you do not need to disconnect the motor from the handpiece power cable.

Under no circumstances should the assembled front part of the handpiece (37) be immersed in liquid. Gustav Baehr GmbH assumes no liability for any damage caused by non-compliance.

5.4.4.1 Autoclaving the handpiece sleeve

Cleaning and disinfection

Before autoclaving, carefully wipe the unscrewed handpiece sleeve (22) inside and out with a disinfectant wipe. We recommend, for example, BAEHR alcohol-free rapid disinfectant wipes, art. no. 11000, 11001, 11044, making sure that the surfaces remain wet for at least 1 minute if possible. Then rinse with running water and soak in demineralised water (demineralised water) for approx. 1 minute. After removal, place the handpiece sleeve on a clean, lint-free cloth to dry. Make sure that the handpiece sleeve is fully dried.

Autoclaving

Place the handpiece sleeve in the autoclave and start a suitable programme once it has been cleaned, disinfected and is completely dry. Autoclaving was validated at 134 °C with a holding time of 3 min (longer holding times are permissible!). The handpiece sleeve was packaged (foil-paper packaging according to EN ISO 11607).

5.4.4.2 Autoclaving the handpiece front part

ATTENTION! The two ball bearings may not be placed in liquid.

ATTENTION! The mounted handpiece front part (37) may not be placed in liquid. Gustav Baehr GmbH assumes no liability for any damage caused by non-compliance.

Cleaning and disinfection

Before autoclaving, place the front part of the handpiece **(without the ball bearings)** disassembled according

to chapter 5.4.10.1 in a non-protein-fixing, VAH-listed cleaning and disinfection agent. For this purpose, we recommend, for example, the BAEHR disinfectant concentrate for instruments, art. no. 11008 (4 %, 5 min) and the use of an ultrasonic bath. A suitable disinfectant for small parts would be the milling cutter disinfection container, art. no. 20629. Then rinse thoroughly under running water and finally soak in demineralised water for approximately 1 minute. Place all individual parts on a lint-free cloth to dry. The individual parts must be fully dried before sterilisation!

ATTENTION! The coupling (36) and the damper (38) (see Fig. 41) are not autoclavable.

ATTENTION! The two ball bearings may not be put in the autoclave when removed.

Autoclaving

Place the cleaned, disinfected and dry parts of the handpiece front section into the autoclave and start a suitable program. Autoclaving in disassembled state at 134 °C with a holding time of 3 min was validated (longer holding times are permissible!). The individual parts and the handpiece sleeve were packaged (foil-paper packaging according to EN ISO 11607).

In principle, the front part of the handpiece can also be autoclaved in the assembled state (not validated). In this case, the two ball bearings contained therein can also be placed in the autoclave. However, we recommend autoclaving it in disassembled state as described above.

Please note the instructions in the text: certain parts must not be placed in disinfectants or in the autoclave, as they may otherwise be damaged. Table 1 provides an overview. Gustav Baehr GmbH assumes no liability for any damage caused by non-compliance.

5.4.5 Quick hose cleaning

Before you start the quick hose cleaning, you must remove any instrument that may still be inserted from the opening for DIN instruments (21).

1. Hold your handpiece so that the hose from the control unit to the handpiece runs straight from bottom to top (the handpiece is in a higher position than the control unit) to better remove dust.
2. Start the quick hose cleaning via the Quick Settings menu using the button (G) (Fig. 19).
3. A countdown appears on the touch-display, counting down from 3 to 1. During this time, get ready for quick hose cleaning: As soon as the cleaning starts, follow the instructions shown on the touch-display.
4. Once the quick hose cleaning has been completed, the device will take you back to the main screen.

Use disposable gloves for cleaning.

Make sure that you hold the palm of your hand over the air supply opening (25) so that you completely cover the opening so that no more air can flow through the handpiece and a negative pressure is created. As soon as you lift your hand again, loose dust that has settled on the hose wall is sucked into the dust bag. Make sure that the device is standing securely and cannot fall during the quick hose cleaning.

We recommend that you perform the quick hose cleaning after each patient treatment. Think about your health and that of your patients.

5.4.6 Cleaning the pushbutton

If your button plunger (24) is dirty or the button no longer works properly, proceed as follows:

Switch off your device using the main switch (11) or disconnect the device from the power supply. Any instrument that may still be in the instrument port (21) must be removed before cleaning.

Use disposable gloves for cleaning.

Fig. 30

Take the button plunger between your thumb and index finger and pull it out of the button housing.

Fig. 31

Clean the button plunger and the button housing with a brush.

Fig. 32

Then rub the button plunger and the button housing with BAEHR quick surface disinfectant (art. no. 11002).

Fig. 33

Avoid entering the opening of the button housing with the collet cleaner 2. The button plunger membrane can become damaged.

Fig. 34

Reinsert the button plunger into the button housing and check whether the function is restored by testing the button plunger for mobility.

5.4.7 Easy-Clean Pro collet

We are pleased to inform you that the Easy-Clean Pro collet is built into your handpiece.

The dirt that is produced during work in a conventional clamping device / collet can cause an instrument that you operate with your handpiece to stop even though the motor is running. This can be accelerated further by creams, oils, greases or similar. The result: The clamping device / collet are no longer functional or only partially functional and had to be sent to the factory for maintenance and cleaning. To reduce these maintenance intervals in the factory, we developed the Easy-Clean Pro collet. You can clean these yourself very easily and without great effort.

EN

The Easy-Clean Pro collet chuck must be cleaned at least 1 x per month! Recommendation: With an average of 8 to 10 treatments per day, you should clean the collet every 14 days using the enclosed tool. If you would like to clean the collet daily for hygiene reasons – just like the device itself – please only use the collet cleaner 2 (brush) with BAEHR alcohol (art. no. 11032).

Read the following cleaning instructions with the utmost care! They contain important information to protect you, others and your device from damage!

Never carry out cleaning work on a device that is still connected to the power supply. Switch off the device at the main switch (11) beforehand or pull the power plug (28) out of the socket.

CAUTION risk of injury! Never attempt to clean the handpiece while the handpiece motor is running. This may only be done with the handpiece motor switched off. Only the tool included in the scope of delivery may be used to clean the Easy-Clean Pro collet. Other types of use and areas of use as well as the use of other tools or objects are at your own risk and may involve dangers. Any other purpose of use is not permitted.

Improper use can result in damage to persons and property. The manufacturer cannot be held responsible for damage caused by improper use, unqualified personnel or incorrect operation. Improper use will invalidate any warranty claims.

The collet cleaners may only be used for the Easy-Clean Pro collet (developed for self-cleaning). Under no circumstances should collet cleaners be used on conventional clamping devices that are not designed for self-cleaning, as this will immediately damage the clamping device.

Clean the collet cleaner 1 after each use and ensure that it is always in a hygienic condition before use. To clean the collet cleaner 1, we recommend using a brush (art. no. 34914) and a suitable disinfectant (e.g. BAEHR disinfectant concentrate for instruments, art. no. 11008).

For hygiene reasons, please clean the collet cleaner 2 with water after use and then place it in a suitable disinfectant (e.g. BAEHR disinfectant concentrate for instruments, art. no. 11008). Then rinse off the disinfectant with water and then with BAEHR alcohol (art. no. 11032).

Fig. 35
1 x collet cleaner 1
Universal stainless steel
art. no. 40287

Fig. 36
1 x collet cleaner 2
Cleaning brush for the Easy-Clean Pro collet
art. no. 40269

To clean the Easy-Clean Pro collet, please proceed as follows:

Before you start cleaning, you must remove any instrument that may still be inserted from the port for DIN instruments (21).

1. **Switch off the device using the main switch (11) or unplug the power plug (28) from the socket.** Never clean the device while the handpiece motor is still running! Risk of injury! In addition, the collet will be damaged!
2. Put on disposable gloves and take the handpiece in your hand.

Fig. 37

3. Now press the tip of the handpiece with your thumb. By holding the tip with the disposable glove you prevent the tip from rotating during cleaning (see Fig. 37).

Fig. 38

4. Insert the collet cleaner 1 into the opening of your handpiece as far as possible without applying any pressure and turn the collet cleaner 1 to the left and right with slight pressure (see Fig. 38).
5. Now pull the collet cleaner 1 out of the port. Then use a small brush to remove the dirt from the grooves of collet cleaner 1 and point the opening of the handpiece downwards so that any loosened dirt can fall out. Repeat the cleaning process until you can no longer remove any more dirt.
6. After use, clean the collet cleaner 1 with a suitable disinfectant (e.g. BAEHR disinfectant concentrate for instruments, art. no. 11008).

Fig. 39

7. Now remove any remaining dirt with the collet cleaner 2 by inserting it as deep as possible into the port on your handpiece and then turning it left and right (see Fig. 39).
8. Now pull collet cleaner 2 out of the port again.
9. Only clean the collet cleaner 2 first with water, then with a suitable disinfectant (e.g. BAEHR disinfectant concentrate for instruments, art. no. 11008) and finally with BAEHR alcohol (art. no. 11032) to degrease the tool.

If cream, grease, oil or similar substances have gotten into the Easy-Clean Pro collet, please proceed as follows when cleaning:

Before you start cleaning, you must remove any instrument that may still be inserted from the port for DIN instruments (21).

1. **Switch off the device using the main switch (11) or unplug the power plug (28) from the socket.** Never clean the device while the handpiece motor is still running! Risk of injury! In addition, the collet will be damaged! Remember personal protective equipment!
2. Moisten the collet cleaner 2 with alcohol (art. no. 11032) (never use greasing disinfectants or other greasy substances, as otherwise the Easy-Clean Pro collet may no longer function properly; if cutters are difficult to insert, use a little silicone spray).
3. Insert the moistened collet cleaner 2 into the opening on your handpiece and turn it left and right.
4. Pull collet cleaner 2 back out.
5. Now let the handpiece air off for at least 5 minutes.

Now your handpiece is ready to use again.

If your handpiece does not function properly despite these cleaning measures, disassemble the front part of your handpiece as described in **chapter 5.4.10.1 "Instructions for disassembling the handpiece"** to clean the individual parts and, if necessary, autoclave them. If this procedure does not improve the situation or if you have any questions about the cleaning process, please contact us, see **chapter 9 "Contact address & manufacturer."**

EN

5.4.8 Handpiece design

For the following maintenance steps, it is necessary to know the design and the individual parts of the handpiece:

5.4.8.1 Illustration of the handpiece with the handpiece sleeve unscrewed

Fig. 40

29 = Holder for handpiece motor
29a = Handpiece support ring
30 = Handpiece supply cable
31 = Handpiece button
32 = Motor plug connection

5.4.8.2 Image of the disassembled handpiece

Fig. 41

33 = Union nut
33a = O-ring for union nut
34 = Rubber buffers (2 x in different sizes)
35 = Handpiece motor
36 = Coupling
37 = Handpiece front part
38 = Damper

EN

5.4.8.3 Image of the disassembled handpiece front part

Fig. 42

39 = Handpiece tip
40 = Bearing sleeve cover
41 = Bearing sleeve
42 = Ball bearing 4 x 9 x 4 **(cannot be autoclaved as an individual part!)**
43 = Compensation washer (1 x)
44 = Wave spring washer (1 x)
45 = Polygon sleeve incl. 2 x O-rings 3 x 0.5
46 = Clamping rollers (3 x)
47 = Collet cage incl. O-ring 3 x 0.5
48 = Brake
49 = Polygon
50 = Ball bearing with flange 5 x 9 x 3 **(cannot be autoclaved as an individual part!)**
51 = Bearing washer incl. O-ring

EN

5.4.9 Hose replacement / inner hose cleaning

With your BAEHR PUR, you have the option of dismantling the suction hose, either to clean it or to replace it with a new hose, which you can reorder. We recommend that inner hose cleaning is done 1 x per month.

5.4.9.1 Removal of the hose

Before removing the hose, remove any instrument that may still be inserted from the opening for DIN instruments (21) and carry out the quick hose cleaning (see chapter 5.4.5 "Quick hose cleaning") to vacuum away any dust that has settled on the hose wall.

Before you start to disassemble the hose, switch off the device using the main switch (11) or pull the power plug (28) out of the socket.
Make sure that you do not lose the handpiece support ring (29a) and the button plunger (24). If you want, you can also remove parts before cleaning.

You will need the following aids:

Fig. 43
Feed-through aid

Fig. 44

1. Unscrew the handpiece sleeve (22) from the handpiece cap (23) and remove it carefully. Place the handpiece sleeve on the table so that it cannot roll away (preferably on a disinfectant cloth).

Fig. 45

2. Carefully pull the handpiece motor (35) out of the holder (29) that secures it in the handpiece cap (23).
3. Clean the motor (35) and handpiece front part (37) unit with a disinfectant wipe.

Fig. 46

4. Carefully remove the handpiece motor (35) from the motor connector (32); hold the motor connector by the recessed grips when removing it. Then place the handpiece motor to one side.

Fig. 47

5. Now, instead of the motor, plug the feed-through aid onto the motor connector (see Fig. 47) until it audibly clicks into place and carefully place the hose on the floor (preferably on a towel).

When pulling through the handpiece supply cable, the feed-through aid prevents soiling of the motor plug connection.

It is essential that you use the feed-through aid. Damage caused by not using the feed-through aid is excluded from the warranty.

Fig. 48

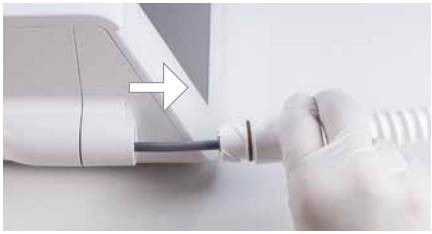

Fig. 49

6. Detach the hose from the control unit by turning it anti-clockwise from the handpiece outlet (4) and then pulling it off.
7. Pull the hose off via the handpiece supply cable (30) and at the same time wipe the exposed handpiece supply cable with a disinfectant wipe.
8. Put the hose aside and clean the handpiece outlet (4) on the control unit, if possible also the inside with a disinfectant wipe.
9. Clean the handpiece supply cable (30) thoroughly and ensure that it is well dried.

5.4.9.2 Inner cleaning of the suction hose

Use disposable gloves for cleaning.

Inner cleaning of the suction hose is optional and not part of the validated preparation. However, it enables improved hygiene if you carry out cleaning 1 x per month.

You will require the following aids:

- Cleaning brush for hose inner cleaning
- Disinfectant (diluted liquid concentrate for surface disinfection (art. no. 11004 / 11005) or the ready-to-use solution (art. no. 11002 / 11003)

Fig. 50

Be sure to clean over a sink.

EN

Fig. 50a

1. Pre-rinsing

- Take the suction hose in your hand.
- Fill the hose with warm tap water.
- Hold both hose ends tight
- Move the ends of the hose up and down alternately so that the water inside the hose is moved around (as energetically as possible).
- Empty the water into the sink.

Fig. 50b

2. Main cleaning

- Wet the cleaning brush
- Apply disinfectant to the brush.
- Carry out the following cleaning from both sides:
  - Hold the suction hose at one end and place the other end carefully on a towel. **Make sure that the two ends do not hit the floor directly, otherwise the parts could be damaged.**
  - Insert the brush as far as possible and pull it out again.
  - If the suction hose contracts and you cannot move the brush, stretch the hose by gripping it in the centre.
  - Repeat the process from the other side.
  - If necessary, repeat the process several times on both sides until you are satisfied with the result.

Fig. 50c

3. Post-treatment

- Flush the suction hose out thoroughly with water.
- Hang the suction hose vertically to ensure optimum ventilation and drying. Ideally, use the optionally available wall bracket for drying the suction hose (art. no. 20128) and a collecting tray (e.g. art. no. 20851) that you place on the floor to avoid water stains.
- Leave the hose to dry for at least 8 hours.

The cleaning brush is sufficiently long to clean the entire hose.

Make sure that the hose is completely dry before the next use.

EN

5.4.9.3 Reattaching the hose

Fig. 51

1. Plug the feed-through aid into the plug of the handpiece supply cable. Ideally, hold the hose vertically upwards (the end with the handpiece cap rests on a towel on the floor) and insert the handpiece supply cable from above until you reach the control unit with the hose.

ATTENTION: Since the strain relief of your handpiece is built into the hose, it may be necessary to turn the handpiece cable slightly when threading it.

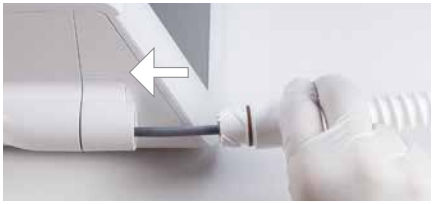

Fig. 52

Fig. 53

2. Guide the hose on the control unit onto the handpiece outlet (4) and lock it again by turning it clockwise. Make sure that the hose engages with a slight click.

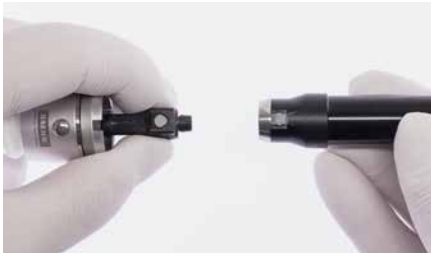

Fig. 54

3. Now remove the feed-through aid and reconnect the motor (35) to the handpiece supply cable via the motor connector (32). Make sure that you insert the connecting tab correctly and push the plug in straight.

Make sure that the plug connection between the handpiece motor and the handpiece power cable clicks into place.

Fig. 55

4. Now insert the rubber buffer (34) on the motor into the holder (29) on the handpiece cap and press it firmly into place.

The rubber buffers are of different thicknesses and there is only one way to place them in the recesses. If they do not fit, you have to turn the handpiece 180 degrees.

EN

Check once again that the handpiece motor is properly connected to the handpiece cap and is fitted tightly.

5. Screw the handpiece sleeve (22) back onto the handpiece cap (23).
6. Use a small instrument and perform a function test by starting the BAEHR PUR at the lowest speed and suction level and gradually increasing it to the "boost" function.

5.4.10 Major collet cleaning and replacement of wearing parts

The front part of your BAEHR PUR handpiece can be disassembled into its individual parts for better hygiene. Furthermore, you can also change the wearing parts of the handpiece by yourself. This means that you do not need send your device to the BAEHR-Service.

Carrying out the major collet cleaning is not mandatory, but merely an offer. We want to offer you a high standard of hygiene, which is why this option is available.

If you do not want to disassemble the front part of your handpiece yourself, but it is necessary to replace certain wearing parts, you are welcome to send your front part to the BAEHR service department. Please note **chapter 5.5 "BAEHR-Service".** Of course, you can also purchase one or more replacement sets of the handpiece front parts so that your BAEHR PUR is quickly ready for use again. This naturally also guarantees a very high standard of hygiene.

For this maintenance step, open the Quick Settings menu and call up the maintenance wizard (H) (Fig. 19). Scan the QR code with your mobile device to start the video tutorial on "Major collet cleaning and replacing wear parts" on the BAEHR website. This guides you through the process step-by-step:

Once you have disassembled and assembled the handpiece once or twice, you will gain more and more confidence and will soon be able to disassemble, clean and assemble it within a few minutes.

Below you will find a description of how to disassemble your handpiece so that you can clean the individual parts of the front section and replace the following wearing parts if necessary:

- Ball bearing set
- Brake
- Damper
- Rubber buffers **(see chapter 5.4.10.3 "Replacing rubber buffers")**

The order sets and article numbers are **listed in chapter 8 "Spare parts, consumables and accessories".**

Please refer to the images of the handpiece in **chapter 5.4.8 "Handpiece design"** and use them as a guide during disassembly/assembly.

You will need the following aids:

Fig. 56
The round special tool

Fig. 57
The flat special tool

- instrument cleaning brush (art. no. 34914) (alternatively a soft toothbrush)
- tweezers (e.g. curved tweezers, 13 cm, art. no. 31449)
- BAEHR alcohol-free quick disinfection wipes (art. no. 11000, 11001, 11044)
- cotton buds (e.g. art. no. 11775)
- any rotating instrument
- BAEHR quick surface disinfectant (art. no. 11002 / 11003)

· Possible spare parts **(see chapter 8 "Spare parts, consumables and accessories")**

5.4.10.1 Instructions for disassembling the handpiece

Before disassembling the handpiece, remove any instrument that may still be inserted from the port for DIN instruments (21) and carry out the quick hose cleaning (see chapter 5.4.5 "Quick hose cleaning") to vacuum out any dust that has settled in the handpiece.

Please use disposable gloves during all work to protect against contamination from dirty components. In addition, many work steps can be carried out more easily with disposable gloves.

Before you start to disassemble the handpiece, switch off the device using the main switch (11) and unplug the power plug (28) from the socket.

If you notice a defective O-ring when disassembling or assembling the handpiece, it must be replaced.

The figures for steps 1 – 4 can be found in **chapter 5.4.9.1 "Disassembly of the hose"**

1. Unscrew the handpiece sleeve (22) from the handpiece cap (23) and carefully remove it (see Fig. 44). Place the handpiece sleeve on the table so that it cannot roll away (preferably on a disinfectant cloth).
2. Carefully pull the handpiece motor (35) out of the holder (29) of the handpiece cap (23) (see Fig. 45).
3. Clean the motor and front assembly with a disinfectant wipe.
4. Carefully disconnect the handpiece motor from the motor connector (32) and place the feed-through aid onto the motor connector (32) in case the handpiece supply cable (30) slips into the hose (see Fig. 46 and 47). Set the hose aside by wrapping it around the control unit.

Fig. 58

5. Carefully pull the damper (38) off the front of the handpiece and set it aside (it may be helpful to moisten the damper and the front of the handpiece with a little disinfectant to make it easier to pull off).

Fig. 59

6. Slide the appropriate opening of the flat special tool onto the spanner gap of the handpiece front part (37) and unscrew the handpiece front part from the motor. Place the motor and coupling (36) on a disinfectant wipe.

Make sure to hold the handpiece upwards to avoid losing the small coupling (36), which may fall out during this step.

EN

Fig. 60

7. Place the front part of the handpiece onto the short, thicker end of the round special tool (see Fig. 56) and unscrew the bearing washer (51) from the front part. If necessary, use the flat special tool (see Fig. 57). Place all parts that you remove from the bearing sleeve on a disinfectant wipe and place the front part vertically on the table.

Fig. 61

8. Now press the pointed, slim end of the round special tool (see Fig. 56) into the port for DIN instruments in the handpiece tip (21) until you hear a click.
9. Remove the handpiece tip and set it aside.

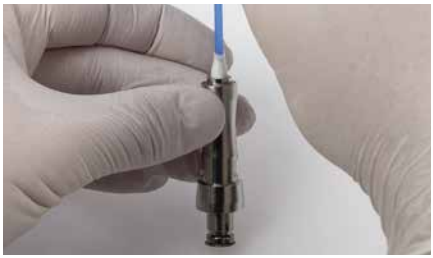

Fig. 62

10. Use a cotton swab to press into the port for DIN instruments in the front part and then push the cotton swab through the bearing sleeve (41) once to push out all the parts inside.

Fig. 63

11. Unscrew the bearing sleeve cover (40) from the bearing sleeve (41) using the appropriate key on the flat special tool and set both aside (check again that there are no parts left in the bearing sleeve).

Fig. 64

12. Take the polygon sleeve (45), pull off the 4 x 9 x 4 ball bearing (42) (if it has not already come off in the previous steps) and put the ball bearing aside.
13. Also remove the wave spring washer (44) and the shim (43) from the polygon sleeve and set them aside.

Fig. 64a

14. If the polygon is still in the polygon sleeve, pull it out now. To do this, take an instrument (e.g. grinding cap holder) and push the instrument shank into the instrument holder to push the polygon out of the polygon sleeve. Also place the polygon sleeve on the disinfection cloth.

Fig. 65

15. Take the polygon and pull the ball bearing with flange 5 x 9 x 3 (50) off the polygon. Place the ball bearing to one side. Note that the ball bearing may be tightly seated on the polygon shank.

Fig. 66

Fig. 67

16. Now remove the collet (47) and the brake (48) from the polygon (if this is difficult, you can insert the shank of the instrument into the port and pull both out). Take the brake off the collet.

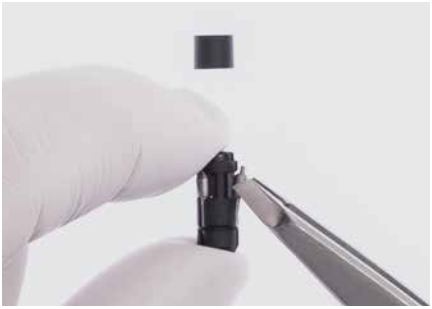

Fig. 68

17. Remove the three tensioning rollers (46) from the collet cage (47) using tweezers.
18. Now clean all individual parts with the instrument brush (alternatively a soft toothbrush) and disinfectant wipes. You can then sterilise certain parts in the autoclave **(see chapter 5.4.4 "Autoclaving certain parts of the handpiece").**

The two ball bearings may not be put in the autoclave!

EN

5.4.10.2 Assembly of the handpiece

Fig. 69

1. Insert the three clamping rollers (46) into the collet cage (47). To do this, push the tips between the O-ring and the collet cage so that the clamping rollers fit into the recess provided.

Fig. 70

Fig. 71

2. Place the brake (48) (please use a new brake if necessary) on the collet cage. Make sure that the three tabs fit well into the notches provided. Push the collet with the clamping rollers first into the polygon (49) so that the brake is visible.

Fig. 72

3. Push the polygon into the polygon sleeve (45) so that the two pins are pushed into the notches.

Fig. 73

Fig. 74

4. Attach the ball bearing with flange 5 x 9 x 3 (50) (please use a new ball bearing if it is noisy) to the polygon by placing the ball bearing with the flange facing down on the table and carefully placing the polygon on it and sliding it into the ball bearing.

5. Place the washers onto the polygon sleeve in the following order:
   1. Wave spring washer (44)
   2. Compensation washer (43)

Fig. 75

6. Now place the ball bearing 4 x 9 x 4 (42) onto the shaft of the polygon sleeve (if noise is generated, please use a new ball bearing)

Fig. 76

Fig. 77

7. Take the bearing sleeve (41) and screw the bearing sleeve cover (40) onto it. Tighten them with the appropriate spanner of the special flat tool.

Fig. 78

Fig. 79

8. Take the round special tool and place the bearing washer (51) on its short side so that it fits into the notches provided. Then take the polygon unit and place it on the bearing disc. Push the polygon unit tightly onto the bearing washer.

EN

Fig. 80

Fig. 81

9. Now slide the bearing sleeve (41) over the polygon unit and screw the bearing washer into the bearing sleeve by hand. Carefully tighten the bearing sleeve again using the appropriate spanner on the flat special tool.

Fig. 82

10. Now place the front part on the table and press the handpiece tip (39) onto the front part of the handpiece until it audibly clicks into place.

Fig. 83

Fig. 84

11. Place the coupling (36) onto the handpiece motor (35) and screw the front part of the handpiece on by hand. Then tighten it carefully using the flat special tool.

Fig. 85

12. Moisten the front part with some alcohol-free disinfectant. Pull the damper (38) (a new one if necessary) back over the front part of the handpiece.

Make sure that the flat end of the damper rests against the lower edge of the front part and the wavy end points towards the tip of the handpiece.

Fig. 86

Fig. 87

13. Reconnect the motor to the handpiece supply cable using the motor connector (32) (remove the feed-through aid first).

Make sure that the connecting tabs provided are correctly connected and that the plug is inserted straight. Make sure that the plug connection between the handpiece motor and the handpiece mains cable clicks into place.

Fig. 88

Fig. 89

14. Now insert the rubber buffers (34) on the motor into the holders provided in the handpiece cap (29) and press them firmly.

The rubber buffers are of different thicknesses and there is only one way to insert them into the recesses. If they do not fit, you have to turn the handpiece 180 degrees.

Check once again that the handpiece motor is properly connected to the handpiece cap and is fitted tightly.

Fig. 90

15. Screw the handpiece sleeve (22) back onto the handpiece cap.
16. Use an instrument with a small head and perform a function test by starting your device at the lowest speed and gradually increasing the speed until the "boost" function is reached.

EN

5.4.10.3 Replacing rubber buffers

The rubber buffers (34) are also wearing parts which you must replace if necessary.

Before disassembling the handpiece, remove any instrument that may still be inserted from the port for DIN instruments (21) and carry out the quick hose cleaning (see chapter 5.4.5 "Quick hose cleaning") to vacuum out any dust that has settled in the handpiece.

Before you start to disassemble the handpiece, switch off the device using the main switch (11) and unplug the power plug (28) from the socket.

Images for steps 1 - 5 can be found in **chapter 5.4.9.1 "Detaching the hose"** and images for steps 9 - 12 can be found in **chapter 5.4.9.3 "Reattaching the hose"**

1. Unscrew the handpiece sleeve (22) from the handpiece cap (23) and carefully remove it (see Fig. 44). Place the handpiece sleeve on the table so that it cannot roll away (preferably on a disinfectant cloth).
2. Carefully pull the handpiece motor (35) out of the holder (29) that connects it to the handpiece cap (23) (see Fig. 45).
3. Clean the motor and front assembly with a disinfectant wipe.
4. Carefully disconnect the handpiece motor from the motor connector (32) and place the feed-through aid onto the motor connector (32) in case the handpiece supply cable (30) slips into the hose (see Fig. 46 and 47). Set the hose aside by wrapping it around the control unit.

Fig. 91

5. Take the flat special tool and use the key in the middle. Place the tool on the union nut (33). To do this, turn the tool until the union nut fits into the port. Unscrew the union nut and make sure not to lose the O-ring (33a) inside.
6. Also put the O-ring to one side.
7. Remove the two rubber buffers (34) from the motor by sliding them out upwards.

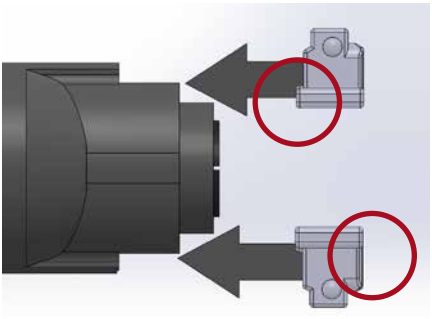

Fig. 92
Small lug points toward the motor, flat side to the hose

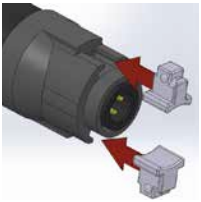

Fig. 93

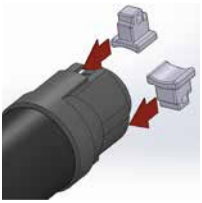

Fig. 94

8. Insert the new rubber buffer (34). Please note that they are different sizes and that you select the correct fixture. The rubber buffers are pushed on with the small lug first and must fit flush with the thread (see Fig. 92 – 94).

9. Now screw the union nut (33) back on and tighten it with the flat special tool.
10. Insert the O-ring (33a) into the union nut and press it firmly.
11. Now reconnect the motor to the handpiece supply cable using the motor connector (32) (remove the feed-through aid first). Make sure that the connecting lugs provided are correctly connected to each other (see Fig. 54).

Make sure that the plug connection between the handpiece motor and the handpiece power cable clicks into place.

12. Now insert the rubber buffers (34) on the motor into the holders provided in the handpiece cap (29) and press them firmly (see Fig. 55).

The rubber buffers are of different thicknesses and there is only one way to insert them into the recesses of the handpiece cap. If they do not fit, you have to turn the handpiece 180 degrees.

Check once again that the handpiece motor is properly connected to the handpiece cap and is fitted tightly.

13. Screw the handpiece sleeve (22) back onto the handpiece cap.
14. Use an instrument with a small head and perform a function test by starting your device at the lowest speed and gradually increasing the speed until the "boost" function is reached.

5.4.10.4 Replacing the handpiece motor

The micromotor is a very robust and reliable component and is designed for many hours of operation. It only needs to be replaced in rare cases. The handpiece structure has been designed so that you can replace the handpiece motor yourself if necessary.

Please note that not every handpiece malfunction (e.g. failure or loud noises) is due to a defective handpiece motor. **Before replacing the handpiece motor, first check the motor connector and the front part of the handpiece – especially the ball bearings – as well as the coupling.** If in doubt, contact BAEHR Service **(see chapter 9 "Contact address & manufacturer").**

5.4.11 Changing fuses

The microfuses are used to protect your device from damage caused by high currents. ATTENTION: Only these fuses are permitted for the BAEHR PUR device: 2 x fine-wire fuses 3.15 A, 250 V, inert (type H)

1. Switch off your device using the main switch (11) and disconnect the device from the power supply. Also, pull the device plug (26) out of the low power socket (13), because only then can the fuse drawer (12) be unlocked.

Fig. 95

EN

Fig. 96

2. Using a 2.0 mm flat screwdriver, carefully insert it into one of the two recesses. Now use the screwdriver to carefully push the tab inwards in the direction of the arrow to unlock the drawer. Do the same with the tab on the other side. This opens the fuse drawer and you can take it out.

Fig. 97

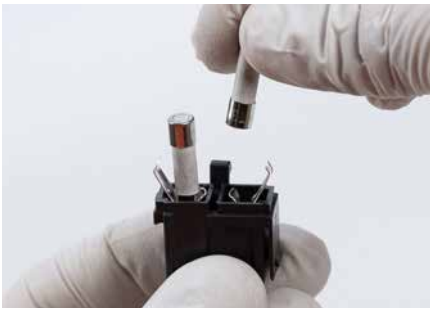

Fig. 98

3. Replace the defective fine fuses with new ones.

Fig. 99

4. Now slide the drawer back into the designated compartment of the low power socket. Make sure that the small lug on the drawer is facing the power socket. Push the drawer in firmly so that it audibly clicks in.
5. Reconnect the mains cable to the control unit. If your device is still not working, please return it to BAEHR Service.

5.4.12 Cleaning and disinfection recommendation

When	What	How	Using what (recommendation)
After each treatment	Cleaning and disinfecting the outside of the handpiece, handpiece holder, hose and front of the device	Manual cleaning and wipe-down disinfection according to chapter 5.4.2	BAEHR wipes for quick disinfection
	Quick hose cleaning	With quick hose cleaning assistant according to chapter 5.4.5	–
1 x daily or after contamination	Cleaning and disinfection of the device surfaces, the handpiece sleeve (outside and inside), the handpiece motor/ front part, the handpiece holder and the hose	Manual cleaning and wipe-down disinfection According to chapter 5.4.3	BAEHR wipes for quick disinfection
1 x weekly	Autoclaving of certain parts of the handpiece	According to chapter 5.4.4	Sterilisation temperature 134 °C Retention time 3 mins
Every 3 weeks	Change the dust bag; possibly earlier depending on the device's instructions regarding fill level	According to chapter 5.2	–
1 x monthly	Easy-Clean Pro collet cleaning	According to chapter 5.4.7	Cleaning set Easy-Clean BAEHR alcohol
1 x monthly	Hose inner cleaning	According to chapter 5.4.9	Cleaning brush for hose inner cleaning
Every 6 months	Change all filters	According to chapter 5.3	Spare filter set for BAEHR PUR
Every 3 months	Major collet cleaning	According to chapter 5.4.10	Special tools, instrument cleaning brush, tweezers, instrument, disinfectant wipes, cotton swabs, disinfectant, possibly replacement items

Further manufacturer information (on cleaning, disinfection and sterilisation of rotating instruments) can be found on our website www.fusspflege.com in the download area ofthe customer portal.

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5.5 BAEHR-Service

At the latest when the message "Maintenance due" appears on your display or you have malfunctions that you cannot resolve yourself **(see chapter 5.9 "Self-help in case of malfunctions")**, send your device to the BAEHR-Service for maintenance. Please note:

Be sure to remove the dust bag before sending your device in.

Only send us your device in a hygienic condition. Any cleaning work will always be invoiced.

Due to safety regulations, you are required to carry out an individual risk assessment for your electrical devices. On this basis, you are obliged to have your devices checked. We recommend having your devices checked once a year (at BAEHR).

Always send your device with the original mains cable and in the undamaged, complete original packaging.

Please keep the shipping carton including packaging accessories in a safe place. The packaging has been developed for this device and offers the best possible protection during transport. Therefore, please use the original packaging if you want to send your device in for service or repair. There is no warranty for damage caused during transport due to inadequate packaging.

5.6 Warranty

The warranty period is 24 months.

No liability is accepted for defects and their consequences due to natural wear and tear, improper cleaning, care or maintenance, failure to observe the operating, maintenance or connection instructions, contamination in the air supply, unusual or inadmissible chemical or electrical influences, unless they are the responsibility of the manufacturer.

Wear parts include in particular: handpiece ball bearings (2 x), collet for the instruments (= brake), dampers, rubber buffers, ball bearings of the handpiece motor and sealing elements (such as O-rings and gaskets).

The colour fastness of plastics and paints is excluded from the warranty. The same applies to cable breaks.

Damage to the device (including the front glass) caused by improper transport, improper handling or falling is not covered by the warranty.

No liability is assumed for defects and their consequences that occur due to improper interventions or modifications to the product made by the customer or third parties and not previously approved by the manufacturer.

5.7 Expected lifetime

The device is designed for an expected lifetime of 5 years after commissioning. With average use (approx. 10 applications per day) the theoretical expected lifetime is 5 years. If the care and warning instructions are followed, the device can be used safely for longer than the specified expected lifetime.

5.8 Recycling / disposal

Old devices, electronic accessories and components must be disposed of as electronic waste and do not belong in household waste. Please note the country-specific requirements.

The resulting waste must be recycled or disposed of safely for human beings and the environment. Please observe the applicable national regulations and your regional public disposal system.

The device is subject to WEEE Directive 2012/19/EU on waste electrical and electronic equipment. We therefore point out that the device must be disposed of separately at the end of its service life within Europe.

Incorrect or improper disposal jeopardises our environment.

Information on the disposal of dust bags and filters can be found in chapters 5.2 and 5.3.

5.9 Self-help for malfunctions

5.9.1 System error code display on the touch-display

An error is displayed as a message in the status bar at the bottom of the touch display. By tapping you will access the Quick Settings menu and the system error button will display the system error code. You can rectify the issues listed below by yourself.

System error code	Cause	Solution
0000 - 0008	· Fan overheating	· Leave the device to cool down for a while
0000 - 8000	· Vacuum system error	· Close the dust bag lid correctly, check that it fits snugly
0008 - 0000	· Handpiece overheating	· Leave the device to cool down for a while
2000 - 0000	· Handpiece cable not connected	· Check the motor plug connection on the handpiece (see Fig. 40)

If other system error codes are shown on the display, first switch the device off and then on again. If the error message persists, please contact BAEHR-Service, stating the error code **(see chapter 9 "Contact address & manufacturer").** In addition, please contact the manufacturer in the event of any faults / malfunctions.

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5.9.2 Identifying and eliminating malfunctions

Malfunction	Cause	Solution
Control unit without function	· Main switch off	· Switch on the main switch
	· Control unit not connected to the mains	· Connect the device to the mains
	· Connection socket without power	· Connect the device to a proper socket
	· Mains cable not properly contacted (inserted)	· Put the device plug into the low power socket correctly
	· Fuse(s) not OK (see chapter 5.4.11)	· Check the main fuses and replace if necessary **The device must be switched off and disconnected from the mains before checking the fuses.**
Display "Orange instrument icon" (see chapter 4.4.4)	· Working pressure on instrument too high (handpiece repeatedly overloaded during use)	· Reduce pressure · Acknowledge the message and touch the instrument icon
	· Something is blocking the handpiece motor	· Remove the blockage
	· System error	· If possible, rectify this yourself (see chapter 5.9.1 "System error code shown on touch display"), otherwise call BAEHR-Service
Display "100 %" appears on the status bar, despite successful dust bag change or if dust bag is not full	· Handpiece clogged	· Disassemble the handpiece and clean. **The device must be switched off first and disconnected from the mains!**
	· Suction hose clogged	· Clean suction hose
	· Suction channel blocked in the dust bag cover	· Clear the suction channel
	· Turbine protection filter in the dust bag chamber clogged	· Change the turbine protection filter
	· Filter blocked	· Change filter in the filter cover
Low suction power and the device becomes hot	· "Dust bag 100%" display ignored	· Pay regular attention to the display
	· Handpiece clogged	· Disassemble the handpiece and clean. **The device must be switched off first and disconnected from the mains!**
	· Dust bag full	· Change the dust bag

If one of these malfunctions persists despite following these instructions, please send the device to the BAEHR service department **(see Chapter 9 "Contact address & manufacturer")**. In addition, please contact the manufacturer in the event of any faults / malfunctions.

Malfunction	Cause	Solution
Low suction power and the device becomes hot	· Suction channel blocked in the dust bag cover	· Clear the suction channel
	· Turbine protection filter clogged	· Change the turbine protection filter
	· Filter cover clogged	· Change filter in the filter cover
	· Exhaust air blocked	· Please ensure that the exhaust air can escape easily from the back of the device.
	· Suction hose clogged	· Clean suction hose (quick hose cleaning, if no improvement: dismantle hose and clean inside of hose)
	· Dust bag cover not properly closed	· Close the dust bag cover properly
	· Rubber seal on dust bag cover (8) or seal on handpiece outlet slipped, dirty or defective	· Check seals and change if necessary. Clean the dust bag chamber, sealing groove and dust bag cover.
Handpiece is unbalanced Handpiece vibrates; handpiece is loud with instruments inserted	· Permitted maximum speed exceeded for the instrument being used	· Only work up to the maximum permitted speed for the instrument used.
	· Handpiece has fallen down, ball bearings are defective	· Replace the ball bearing in the handpiece (see chapter 5.4.10)
	· Handpiece front part not mounted properly	· Check the fit of the front part on the motor and tighten it if necessary with the flat special tool or carry out major collet cleaning and reassemble the parts properly (see chapter 5.4.10)
	· Damper is worn	· Change the damper (see chapter 5.4.10)
	· Instrument defective (bent, shank worn etc.)	· Definitely replace the instrument
	· Instrument is not pushed into the collet properly.	· Slide instrument completely as far as possible into the collet
	· Collet is dirty	· Clean the collet, carry out major collet cleaning if necessary

If one of these malfunctions persists despite following these instructions, please send the device to the BAEHR service department **(see Chapter 9 "Contact address & manufacturer")**. In addition, please contact the manufacturer in the event of any faults / malfunctions.

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Malfunction	Cause	Solution
Instruments no longer fit tightly in the collet, Instruments won't hold	· Permitted maximum speed exceeded for the instrument being used	· Only work up to the maximum permitted speed for the instrument used.
	· Instrument shank worn / scratched	· Check the instrument shank and use a new instrument if required
	· Instrument shank bent	· Definitely replace the instrument
	· Instrument is not pushed into the collet properly.	· Slide instrument completely as far as possible into the collet
	· Cream, ointment or similar on the instrument shank	· Clean instrument. Work with small instruments until larger instruments are firmly clamped again. Always ensure that the handpiece tip and the instruments are clean during operation.
	· Forgotten to insert clamping rollers during cleaning	· Insert clamping rollers
	· Excessive working pressure on the instrument	· Reduce pressure
	· Pulling movements during work	· Avoid pulling movements
	· Handpiece front part not mounted properly	· Carry out a major collet cleaning and reassemble the parts properly (see chapter 5.4.10)
	· Brake worn	· Replace the brake (see chapter 5.4.10)
	· Collet is dirty	· Clean the collet, carry out major collet cleaning if necessary
Instrument does not rotate	· The handpiece motor is not correctly connected to the handpiece supply cable via the motor plug connection	· Unscrew the handpiece sleeve and connect the motor to the handpiece supply cable via the motor plug connection.
	· Coupling not inserted after cleaning	· Insert coupling
	· Motor plug connection dirty	· Clean contacts with a brush and compressed air from a can
Button plunger on the handpiece jams or is difficult to operate	· Handpiece or button dirty	· Clean button (see chapter 5.4.6)
Motor no longer fits well in the handpiece cap holder	· Rubber buffer worn	· Replace rubber buffer (see chapter 5.4.10.3)

If one of these malfunctions persists despite following these instructions, please send the device to the BAEHR service department **(see Chapter 9 "Contact address & manufacturer")**. In addition, please contact the manufacturer in the event of any faults / malfunctions.

Malfunction	Cause	Solution
Suction hose is yellowed / not hygienic	· This is normal wear	· Replace suction hose (see chapter 5.4.9)

If one of these malfunctions persists despite following these instructions, please send the device to the BAEHR service department **(see Chapter 9 "Contact address & manufacturer")**. In addition, please contact the manufacturer in the event of any faults / malfunctions.

6. Technical data

Medical device	Class IIa according to EU regulation for medical devices 2017/745 MDR, application part BF (handpiece)
Suction power	approx. 140 l/min – approx. 330 l/min
Vacuum	max. -135 mbar
Exhaust air volume - suction level 1	approx. 44 dB(A) – approx. 160 l/min (whisper)
Exhaust air volume - suction level 4	approx. 49 dB(A) – approx. 210 l/min (bird tweet)
Exhaust air volume - suction level 7	approx. 51 dB(A) – approx. 270 l/min (quiet radio music)
Exhaust air volume – suction level BOOST	approx. 56 dB(A) – approx. 330 l/min (normal talking)
Control unit dimensions (W x D x H)	approx. 254 x 239 x 123 mm (without handpiece holder) approx. 293 x 239 x 123 mm (with handpiece holder)
Weight of control unit incl. handpiece	approx. 2590 g (without dust bag)
Suction hose length	approx. 1,550 mm
Handpiece dimensions (L x Ø)	approx. 127 x 20.5 – 25 mm
Handpiece weight	approx. 110 g
Micromotor speed range	5,000 – 42,000 rpm adjustable
Housing	Disinfectant-resistant
Protection class	IP 21
EMC compatibility	according to EN 60601-1-2
Operating voltage	110 - 240 V alternating voltage
Frequency	50 / 60 Hz
Power consumption	150 W
Shank diameter	2.35 mm (standardised according to DIN EN ISO 1797, cylindrical TYPE 2)
Ambient temperature (operation)	+5 °C – +35 °C
Storage temperature	-10 °C – +40 °C
Air humidity	30 % – 85 %
Permitted air pressure	800 hPa – 1060 hPa
Fuse	2 x micro fuse 3.15 A, 250 V, inert (type H)

Visual and technical changes reserved.

EN

7. Electromagnetic compatibility

Standards		
Emission	IEC 60601-1-2:2014	Limit Class: B
	EN 55014-1:2017 + A11:2020	Limit Class: HH
Immunity	IEC 60601-1-2:2014	Severity Level: home healthcare environment
	EN 55014-2:1997 + Corrigendum 1997 + A1:2001 + A2:2008	Severity Level: Cat. IV

Emission	**Applied standard**	**Limit class**	**Result**
Conducted emissions at AC mains terminals 150 kHz - 30 MHz	CISPR 11(mod):2015 + A1:2016 + A2:2019	B	Pass
Radiated emissions - electromagnetic fields 30 MHz - 1000 MHz	CISPR 11(mod):2015 + A1:2016 + A2:2019	B	Pass
Harmonic current emissions	IEC 61000-3-2:2005 + A1:2008 + A2:2009	A	Pass
Voltage fluctuations and flicker	IEC 61000-3-3:2013	6 %	Pass

Emission	**Applied standard**	**Limit class**	**Result**
Electrostatic discharge (ESD)	IEC 61000-4-2:2008	CD ± 8 kV, AD ± 15 kV	Pass
Electromagnetic fields 80 MHz – 2700 MHz	IEC 61000-4-3:2006 + A1:2007 + A2:2010	10 V/m	Pass
Electromagnetic fields, Proximity wireless fields 380 MHz – 5800 MHz	IEC 61000-4-3:2006 + A1:2007 + A2:2010	9 – 28 V/m	Pass
Electrical fast transients (Burst)	IEC 61000-4-4:2012	2 kV: AC-mains	Pass
Surge	IEC 61000-4-5:2014 + A1:2017	1 kV	Pass
Conducted RF disturbances 150 kHz – 80 MHz, ISM & AR	IEC 61000-4-6:2013	3 – 6 V	Pass
Proximity magnetic fields 30 kHz – 13,56 MHz	IEC 61000-4-39:2017-03	7,5 – 65 A/m	Pass
Voltage dips and short interruptions	IEC 61000-4-11:2004 + A1:2017	according to IEC 60601-1-2:2014	Pass

8. Spare parts, consumables and accessories

Art. No.	Product name	Content
20000002	Handpiece holder BAEHR PUR / PUR VIA	1 piece including screws
20000020	Handpiece holder for all BAEHR cases	1 piece including screws
20006	Spare filter set for BAEHR PUR / PUR VIA	5 x turbine protection filters 5 x activated charcoal filters 5 x ultra-fine fleece 5 x coarse filter fleece
20002	Dust bag BAEHR PUR / PUR VIA	Set of 3
40750	Tool and cleaning set for BAEHR PUR / PUR VIA / NEO / NEO VIA	1 x collet cleaner 1 1 x collet cleaner 2 - cleaning brush 1 x instrument changing aid 1 x 70 % alcohol 1 x special tool for handpiece mounting, round 1 x special tool for handpiece mounting, flat
20000003	Power cable for case, short for BAEHR PUR / PUR VIA	1 piece
20000004	Power cable for BAEHR PUR / PUR VIA (length approx. 2 m)	1 piece
20000005	Cleaning brush for hose inner cleaning	1 piece incl. feed-through aid
20000006	Spare suction hose incl. strain relief for BAEHR PUR / PUR VIA	1 piece
20128	Wall holder for drying suction hose BAEHR PUR / PUR VIA	1 piece
20851	Storage tray with high rim 15 x 20 x 4 cm	1 piece
40400	Handpiece front part replacement set for BAEHR PUR / PUR VIA / NEO / NEO VIA	1 x handpiece front part mounted 1 x coupling 1 x damper 1 x special tool for handpiece mounting, flat 1 x silicone hose
20000021	Handpiece motor for BAEHR PUR / PUR VIA / NEO / NEO VIA	1 piece
20000007	Damping elements set for BAEHR PUR / PUR VIA / NEO / NEO VIA	3 x small rubber buffers 3 x thick rubber buffers 3 x dampers
20000008	Ball bearing set	2 x ball bearings 4 x 9 x 4 2 x ball bearings with flange 5 x 9 x 3

A current overview of available spare parts, consumables and accessories for the control unit, suction hose and handpiece is available in our shop (please note that not all parts are available individually).

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Art. No.	Product name	Content
20000009	Brake for BAEHR PUR / PUR VIA / NEO / NEO VIA	Set of 5
20000010	O-rings 3 mm x 0.5 mm for BAEHR PUR / PUR VIA / NEO / NEO VIA	Set of 10
20000011	Coupling for BAEHR PUR / PUR VIA / NEO / NEO VIA	Set of 5
20000012	O-ring for union nut for BAEHR PUR / PUR VIA / NEO / NEO VIA	Set of 5
20000013	Handpiece tip (made of special PEEK plastic) for BAEHR PUR / PUR VIA / NEO / NEO VIA	Set of 2
20000014	Spare discs set for BAEHR PUR / PUR VIA / NEO / NEO VIA	5 x compensation washer 5 x wave spring washer
20000015	Bearing washer incl. O-ring for BAEHR PUR / PUR VIA / NEO / NEO VIA	1 piece
20000016	Handpiece support ring for BAEHR PUR / PUR VIA / NEO / NEO VIA	1 piece
20000017	Union nut for BAEHR PUR / PUR VIA / NEO / NEO VIA	1 piece
20000018	Bearing sleeve cover for BAEHR PUR / PUR VIA / NEO / NEO VIA	1 piece
20000019	Bearing sleeve for BAEHR PUR / PUR VIA / NEO / NEO VIA	1 piece
20000001	BAEHR PUR user manual	1 piece

A current overview of available spare parts, consumables and accessories for the control unit, suction hose and handpiece is available in our shop (please note that not all parts are available individually).

9. Contact address and manufacturer

Gustav Baehr GmbH
Max-Eyth-Str. 39
D-71332 Waiblingen
Tel.: +49 (0)7151 95902-0
www.fusspflege.com
info@gustav-baehr.de

CE 0483

10. Declaration of conformity

The current declaration of conformity can be found at www.fusspflege.com. This can also be sent to you on request. Please contact the above-mentioned contact address & manufacturer.

EN

11. Device and handpiece images

11.1 Device images

1 = Touch-display
2 = Handpiece holder (optionally available to order (art. no. 20000002))
3 = Dust bag cover
4 = Handpiece outlet
5 = Suction hose
6 = Dust bag chamber with filter grid
6a = Turbine protection filter
7 = Fixture nozzles for dust bag
8 = Dust bag cover rubber seal
9 = Dust bag
10 = Filter cover (exhaust filter)
11 = Main switch ON/OFF
12 = Fuse drawer
13 = Low power socket
14 = Nameplate
15 = UDI labelling
16 = Fixing points for handpiece holder (screw holes)
17 = Housing seal
18 = Rubber feet (4 x)
19 = Ventilation holes (2 x)

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11.2 Handpiece images

20 = Suction hose
21 = DIN instruments port
22 = Handpiece sleeve (unscrews)
23 = Handpiece cap
24 = Button plunger
25 = Port for air supply
29 = Holder for handpiece motor
29a = Handpiece support ring
30 = Handpiece supply cable
31 = Handpiece button
32 = Motor plug connection
33 = Union unit
33a = O-ring union nut
34 = Rubber buffer
35 = Handpiece motor
36 = Coupling
37 = Handpiece front part
38 = Damper
39 = Handpiece tip
40 = Bearing sleeve cover
41 = Bearing sleeve
42 = Ball bearing 4 x 9 x 4
43 = Compensation washer
44 = Wave spring washer
45 = Polygon sleeve incl. 2 x O-rings 3 x 0.5
46 = Clamping rollers (3 x)
47 = Collet cage incl. O-ring 3 x 0.5
48 = Brake
49 = Polygon
50 = Ball bearing with flange 5 x 9 x 3
51 = Bearing washer incl. O-ring

11.3 Low power connection cable image

26 = Device plug
27 = Cable with ferrite core
28 = Power plug

LOT REF

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