

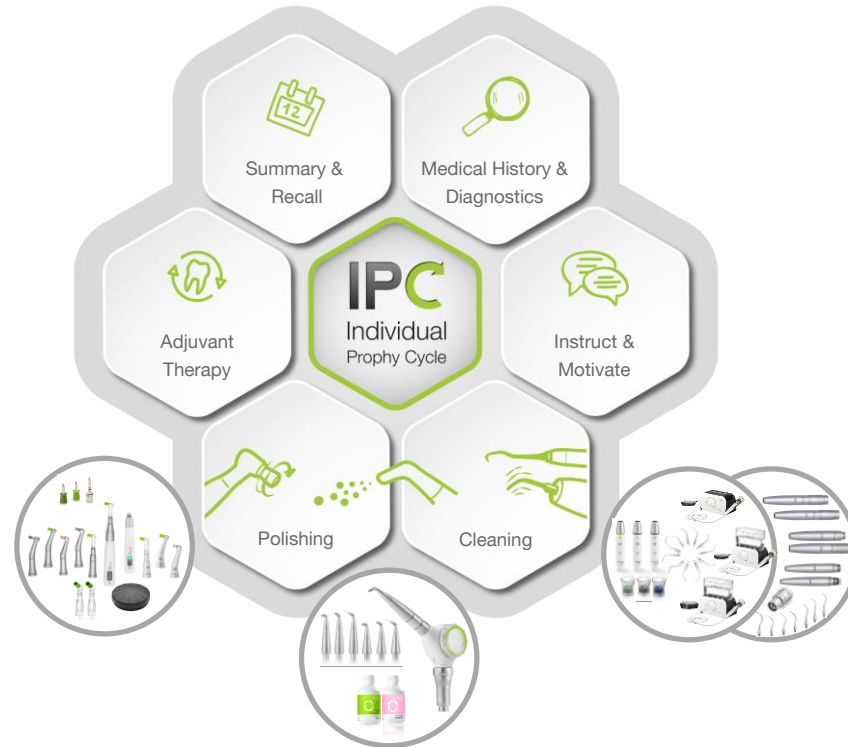
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Prophylaxis treatment process



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proxeo AURA

- > to carry out air polishing jobs in an
 - > **efficient**
 - > **controlled** and
 - > **in-depth** way.
- > with one system





Target Group:

- ✓ Users who would like to remove **soft deposits** (= plaque, biofilm) supra- and subgingival
- ✓ Users who would like to remove **stain**
- ✓ Practices that have the **option** and are **willing to adapt the air pressure settings** of the dental unit and/or the single supply hose to the Proxeo Aura (e.g. use one dedicated dental unit for prophylaxis treatments)

Non-Target Group

- ✗ **Intensive Users**
- ✗ Practices which use air polishing as integral part of **EVERY therapy**
- ✗ Users who wants to continuously **operate different instruments on the same supply hose** (e.g. switch between turbines and air polishing handy)

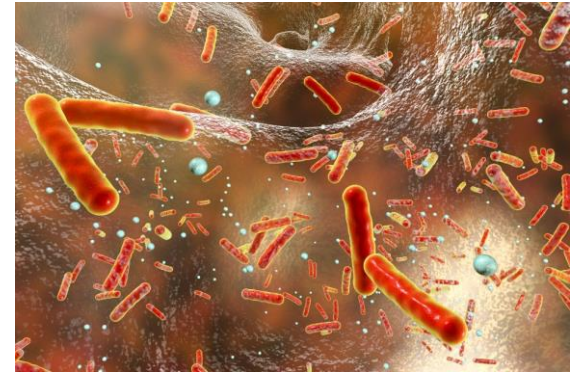
For these users a table-top device would be the better choice



Definition Biofilm

> Biofilm=Plaque= mass of eine **bacteria**,) that produces a **sticky protective secretion** which allows it to stick firmly together and to the surface of the teeth (Polysaccarid-Matrix)

- > Colony forming
- > High complex organized matrix
- > Communication in between



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Stain...

Is a discolouration of teeth via:

deposition of colour particles on the tooth surface due to

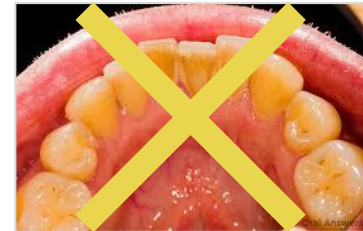
- > smoking
- > consumption of coffee, tea, redwine,
...

administration of certain medication

- > e.g. antibiotics, chlorhexidine



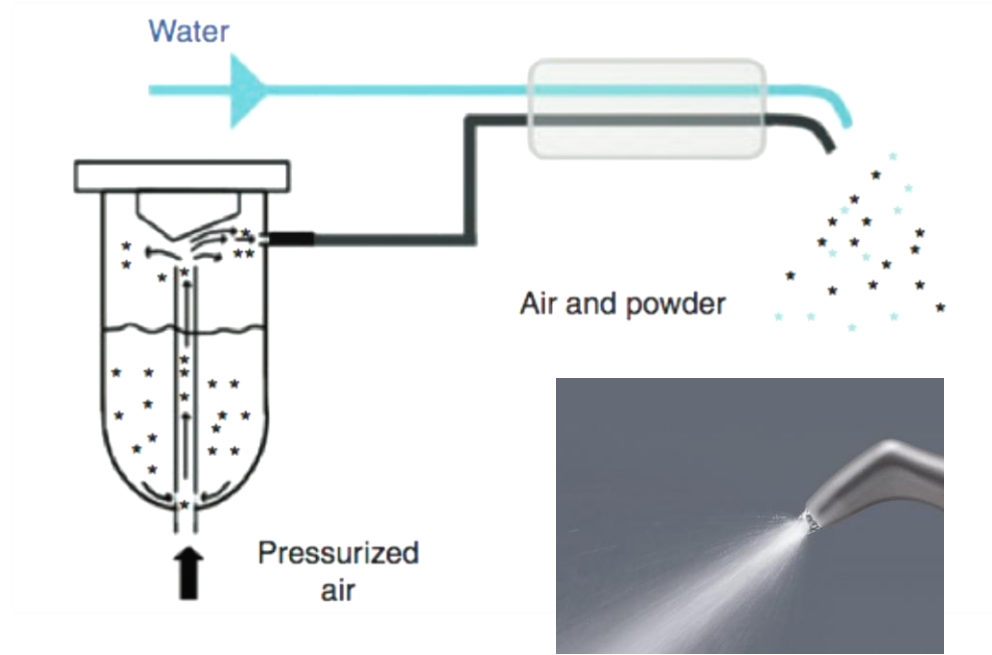
Prophylaxis treatment process



The air-polishing technique

Particles of powder

- > Accelerated by air
- > combined with water
- > out of a specific nozzle allow an fine, regular and precise jet

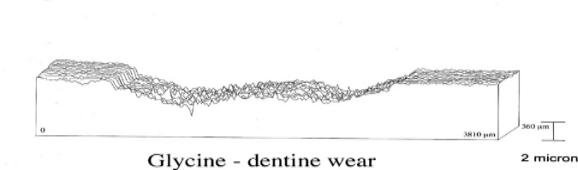
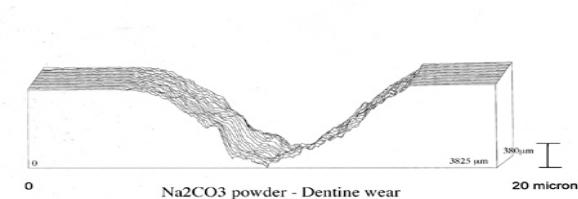
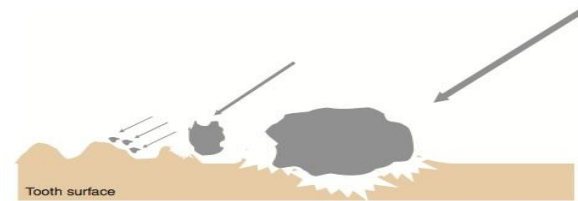


The air-polishing technique

5 parameters

- > **Air** pressure, volume
- > **Water** pressure, volume
- > **Powder** size, shape, hardness, weight of the particles
- > **Time** of exposure
- > **Distance** to the treated area

are influencing the effect of the jet on the treated area



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Proxeo AURA – Air Polishing System



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One for all airpolishing applications

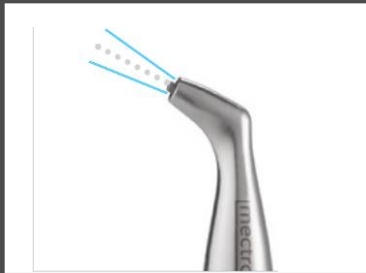
Application	Setting	Powder	Spray head
 Supragingival	 Prophy	 Green powder	 Standard Optional
 Supragingival, sulcus, subgingival pockets < 3 mm	 Perio	 Pink powder	 Standard Optional
 Subgingival pockets > 3 mm	 Perio	 Pink powder	 Standard Optional



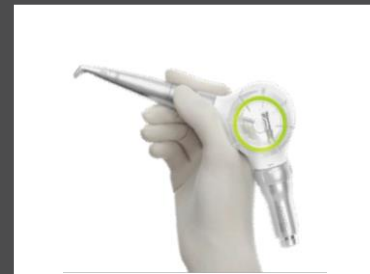
One for all airpolishing applications



Slender like a perio probe



Confined spray pattern



Turnable 360°



Your choice

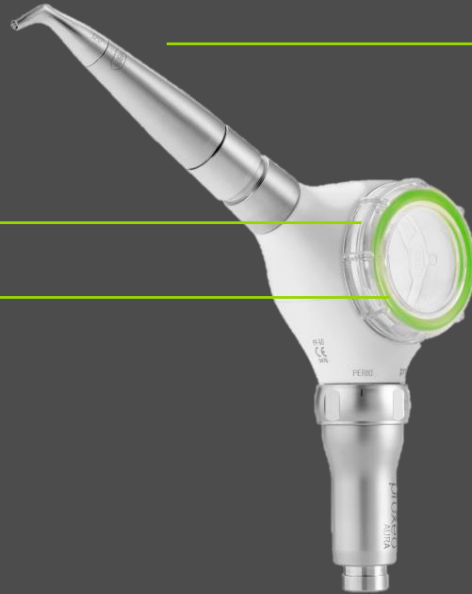
One for all airpolishing applications



Comfortable refill



Troublefree processes



Optimal access and handling



4 turbine connections



One for all airpolishing applications

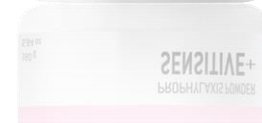
Technical data

Air polishing handpiece	
Operating pressure air:	2.2 bar – 3 bar (2,200 hPa - 3,000 hPa)
Operating pressure water:	1 bar - 3 bar (1,000 hPa to 3,000 hPa)
Weight:	155 g
Dimensions (BxTxH):	200 x 90 x 50 mm
Operating conditions	From +10°C to +35°C Relative humidity from 30 % to 75% Air pressure P: 800hPa/1060hPa
Type / Connection	PF-60 (W&H Roto Quick) PF-60 M (KaVo Multiflex) PF-60 N (NSK) PF-60 S (Sirona)
Warranty:	1 year (not for accessories)
Spray heads	
Perio tips	single use!

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Proxeo AURA – Air Polishing Powders



Prophylaxis Powder SOFT

- > removes supragingival biofilm and stains from the enamel surface
- > gently and effectively

Specs:

- > sodium bicarbonate - based
- > average particle size: 40 µm
- > mint flavour
- > standard package:
 - > 4 bottles of 250 g each
 - > RRP: 75,00 / package



Indications:

- > removal of stains and extrinsic discolorations due to smoke, wine, tea and coloring agents
- > cleaning of fissures and cavities
- > cleaning of orthodontic brackets



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Prophylaxis Powder SENSITIVE* – Glycine Powder

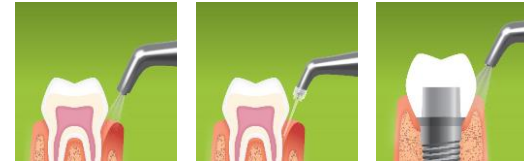
- > removes gently biofilm - supra- and subgingivally
- > can successfully be used for the treatment of each type of patient



SENSITIVE – Glycine Powder

Specs:

- > glycine-based
- > average particle size 25 µm
- > sweetish taste
- > soluble in wáter
- > standard package: 2 bottles of 160g each
- > RRP: 52,00 / package



Indications:

- > Removal of mild pigmentations and stains
- > biofim management in periodontal pockets
- > supportive periodontal therapy
- > Implant maintenance and treatment of peri-implantitis
- > cleaning of orthodontic brackets
- > gentle cleaning of restoration materials
- > minimally invasive on exposed root surface & dentin

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Get started

proxeo^{AURA}

> Prophy Set

- > 1 Air polishing handpiece
- > 1 Spray head 120°
- > 1 Prophylaxis Powder SOFT bottle (250g)

RRP € 991,-

Supragingival



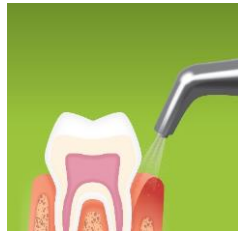
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For all airpolishing applications

Supragingival



Supragingival,
sulcus,
subgingival
pockets <3mm



Subgingival
pockets >3mm



proxeo AURA



> Perio Set

- > 1 Air polishing handpiece
- > 1 Spray head 120°
- > 1 Spray head perio
- > 40 Subgingival perio tips
- > 1 Prophylaxis Powder SOFT bottle (250g)
- > 1 Prophylaxis Powder SENSITIVE - Glycine Powder, bottle (160g)



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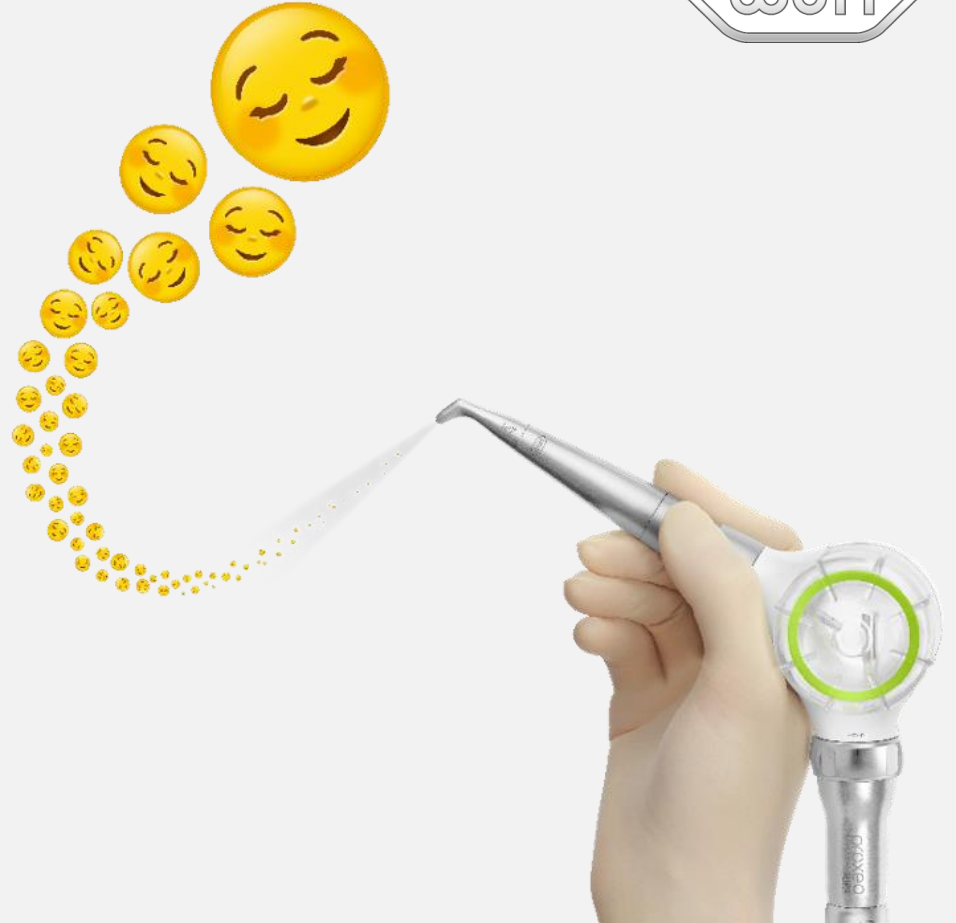


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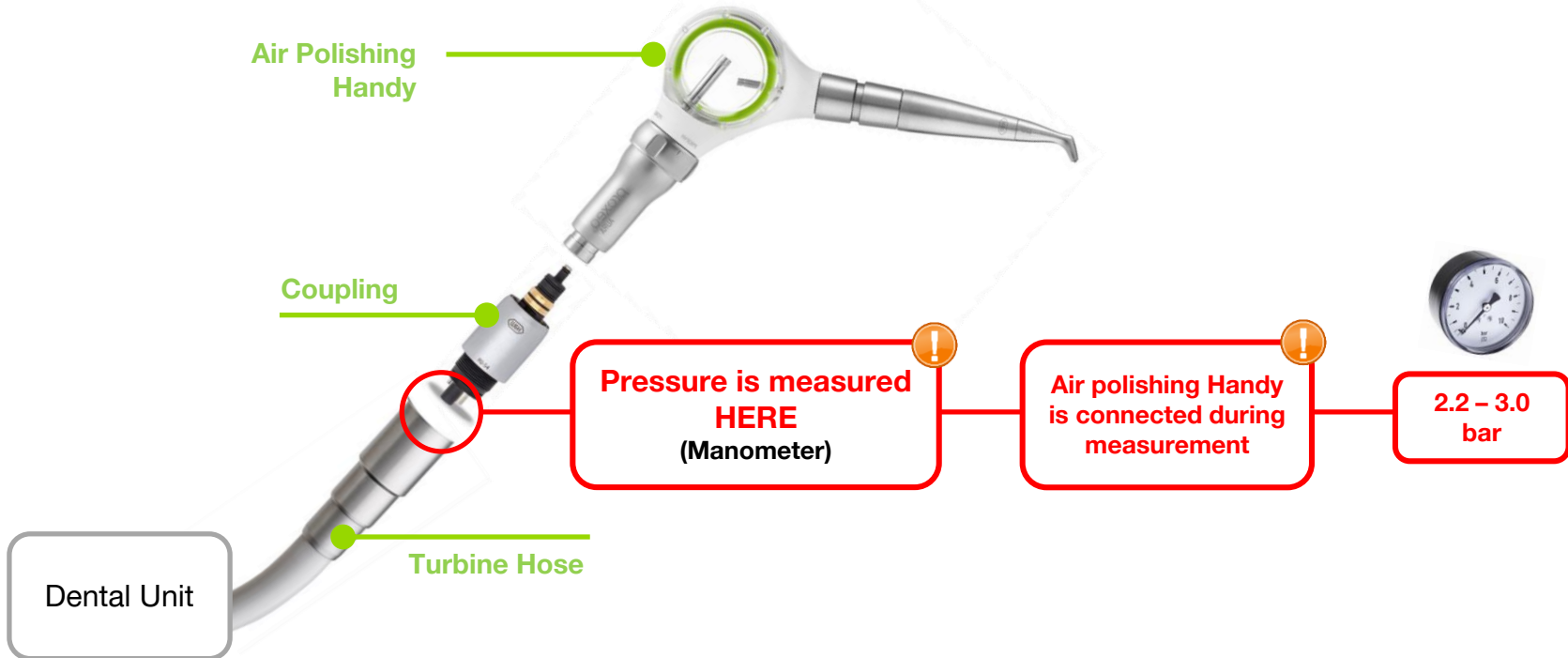
Before Treatment

Preparation





Correct air pressure setting





Correct air pressure setting

- > 3 bar \neq 3 bar !
- > Air pressure is always dependend on the instument connected !
- > 3 bar measured with a turbine are not equal to 3 bar measured with a an airpolishing handy
- > Air pressure needs to be adapted individually dependend on the instrument connected

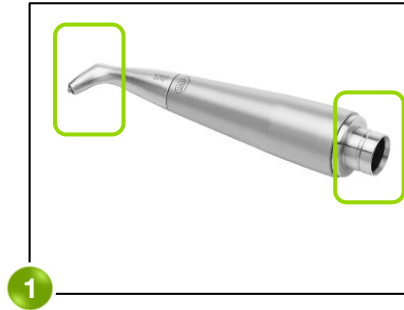


 = switch to
(w/o changing air pressure)

Before treatment

Make sure all components are dry:

1. No water in the front or the back or inside the spray head
2. No water at the front and the back of the handpiece
3. No water or moisture in the powder container
4. No water drop at the coupling



Before treatment

Make sure coupling is connected well:

- 5. to the hose
- 6. to the handpiece





Before treatment

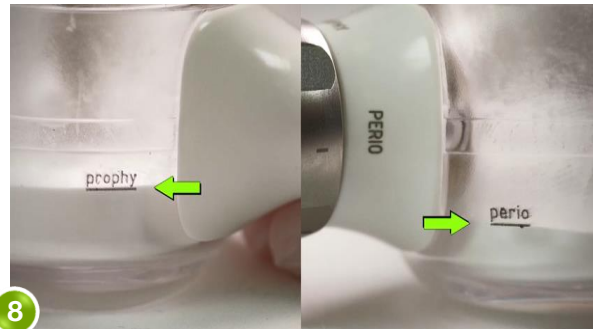
Powder Choice & Settings

7. **Shake** the powder before use
8. **Maximum levels** for powder shown on the powder container → do not overfill the chamber



7

PROPHY LEVEL for the
Prophylaxis Powder **SOFT**



8

PERIO LEVEL for the
Prophylaxis Powder
SENSITIVE – Glycine Powder

Before treatment

9. Choose the right working pressure by using the adjustment ring

PROPHY SETTING for the
Prophylaxis Powder SOFT



9

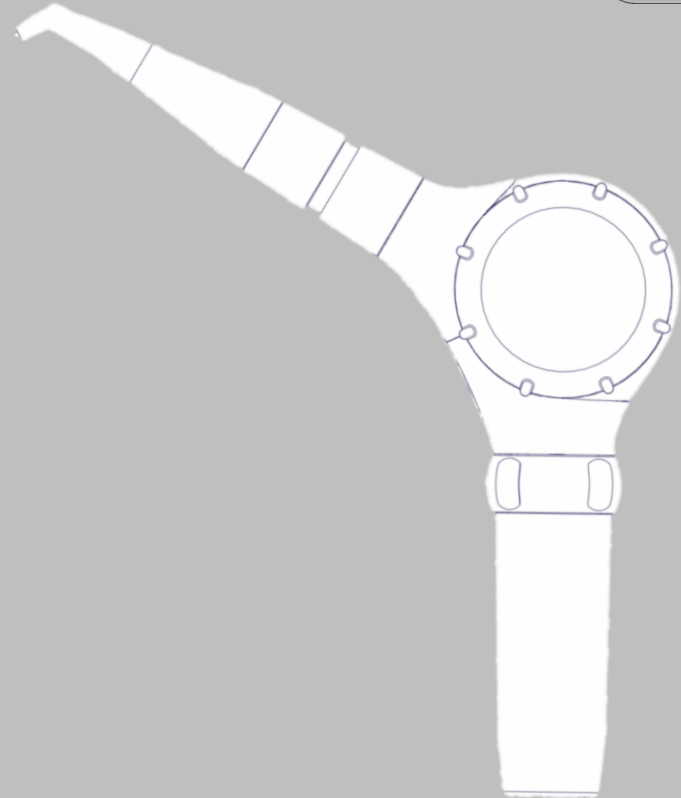
PERIO SETTING for the
Prophylaxis Powder
SENSITIVE – Glycine Powder

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How to





Things to know during use

- > Patients that are on a **low sodium diet** or who suffer from **serious respiratory problems**, such as **chronic bronchitis, asthma, emphysema, etc.** must not undergo the prophylaxis treatment, until they have consulted with their doctor
- > Patients wearing **contact lenses** should **remove** them prior to receiving treatment with air polisher devices
- > **Do not direct the stream of air/powder/ water in towards eyes.** Failure to observe this requirement can cause serious **eye damage**. It is advisable for everyone involved (patient, dentist and dental personnel) to wear protective goggles



Things to know during use

- > It is advisable for everyone involved (patient, dentist and dental personnel) to wear **protective goggles**
- > Dentists and other dental professionalist are advised to use **protective masks** in order to limit inhalation of the powder.



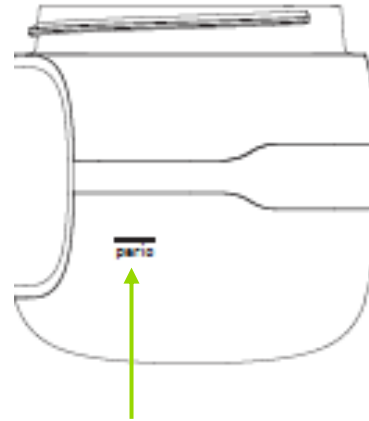
Things to know during use

- > Do not direct the stream of air/**Prophylaxis Powder SOFT**/water onto **composites, fillings or bridges**. Failure to observe this requirement may cause them to be damaged
- > Do not aim the jet of air/**Prophylaxis Powder SOFT**, water onto **soft tissues, root surface** or inside the gingival sulcus. Failure to comply with this direction can cause gingival tissue **emphysema** (emphysema of the mucosa and/or subcutaneous).
- > For this kind of treatment, use only fine granulometry powders = **Prophylaxis Powder SENSITIVE – Glycine Powder** and the **setting PERIO**.

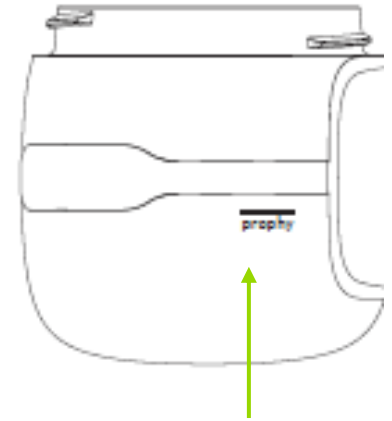


Things to know during use

> **Maximum levels** for powder shown on the powder container



PERIO for the
Prophylaxis
Powder
SENSITIVE –
Glycine Powder



PROPHY for the
Prophylaxis
Powder **SOFT**



Things to know during use

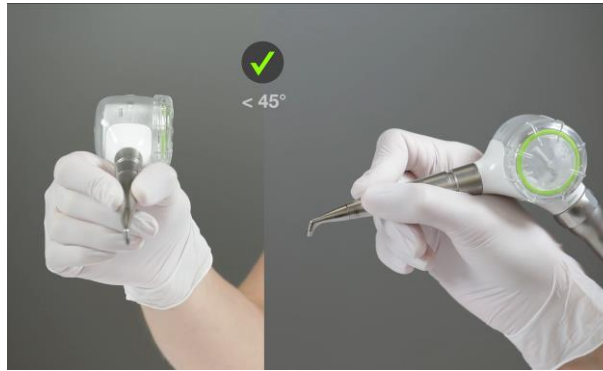
Avoid clogging

- > Make sure that the powder container, the turbine coupling, all connections and air tubes/bores are **perfectly dry** before use.
- > The presence of moisture could cause clogging of the channels.
- > It is advisable to **empty** the **powder container** of the PF-60 at least **once a day**.



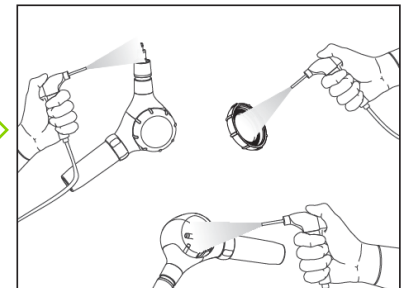
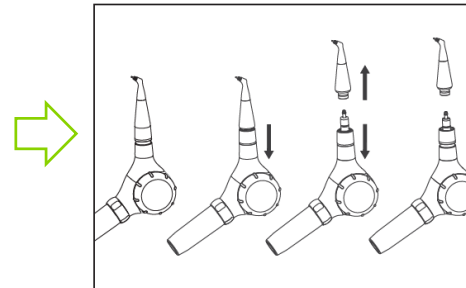
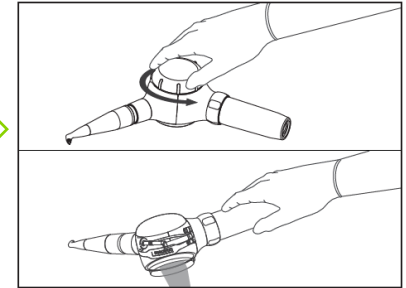
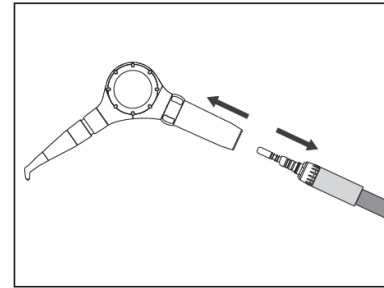
During treatment

- > Do not lean the Proxeo Aura excessively during use, possibly **not more than 45°** both **longitudinally and laterally**.
- > In case you need to direct the jet elsewhere you can rotate the spray head 360°.
- > An excessive or incorrect leaning of the device can result in a **decrease of efficiency**.



Regular maintenance

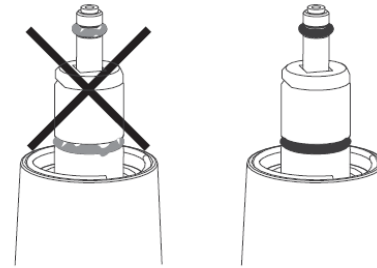
- > Every time you change powder and before the cleaning and sterilization process!



Regular maintenance

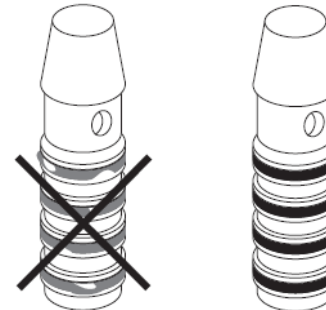
- > Periodically **check o-rings'** conditions on the **anterior quick connection**.

O-rings must always be in good conditions without the presence of residues of powder or cuts. The anterior quick connection can clog in case of broken, worn o-rings or powder residues. *Exclusively use W&H original accessories and spare parts.*



- > Periodically **check o-rings'** conditions on the **turbine connection**.

O-rings must always be in good conditions without the presence of soil or cuts. The airpolishing handpiece can clog in case of broken, worn o-rings or powder residues. *Exclusively use original accessories and spare parts supplied by turbine's manufacturer.*



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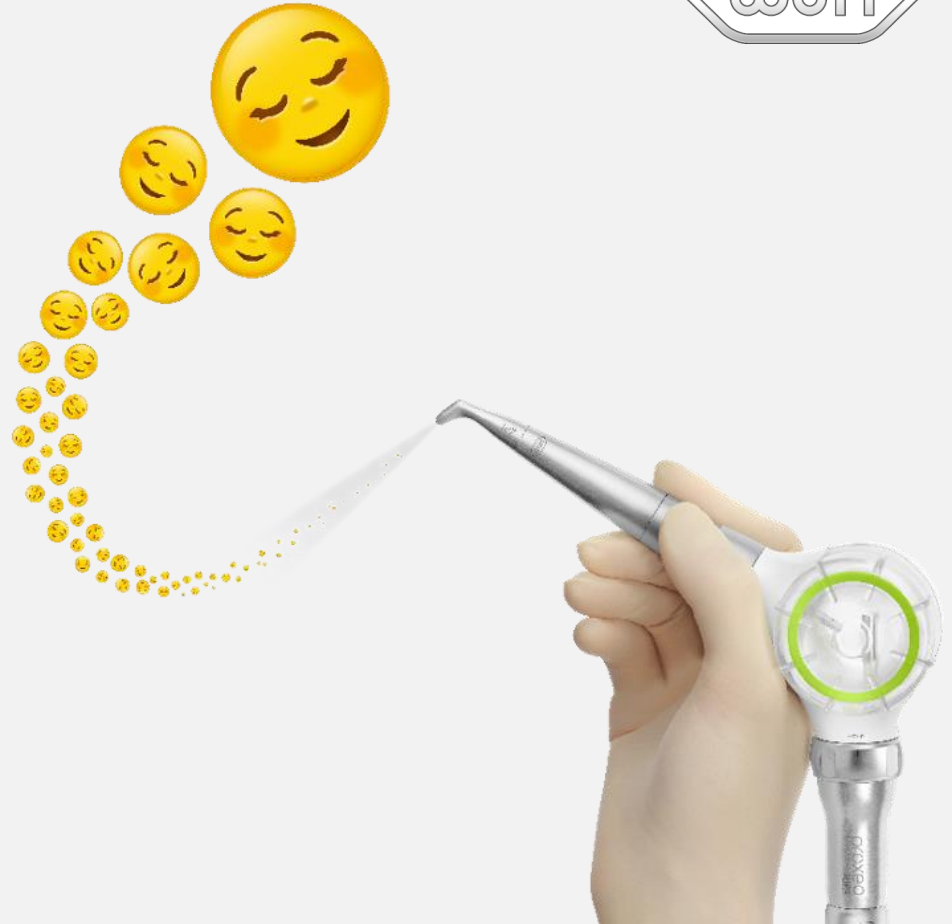


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During treatment
















Proper handling for perfect results



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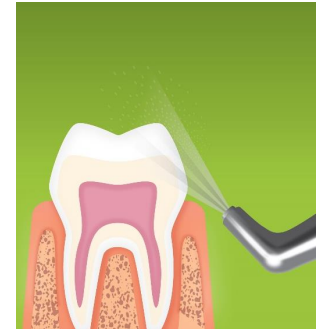


One for all airpolishing applications

Application	Setting	Powder	Spray head	
 Supragingival	 Prophy			
 Supragingival, sulcus, subgingival pockets < 3 mm	 Perc			
 Subgingival pockets > 3 mm	 Perc			



Supragingival



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Correct use - supragingivally

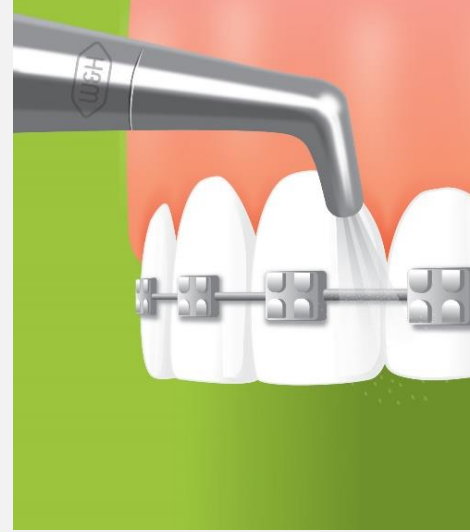
45° to the tooth surface

from RED to WHITE

distance ~ 0,5 cm

place suction opposite to the spray jet

continuous movement, overlapping



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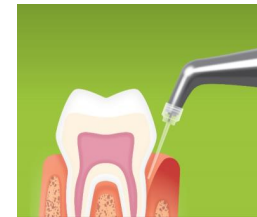


One for all airpolishing applications

Application	Setting	Powder	Spray head	
 Supragingival	 Prophy		 Standard	 Optional
 Supragingival sulcus, subgingival pockets < 3 mm	 Perio	 PERIO	 Standard	 Optional
 Subgingival pockets > 3 mm	 Perio	 PERIO	 Standard	 Optional

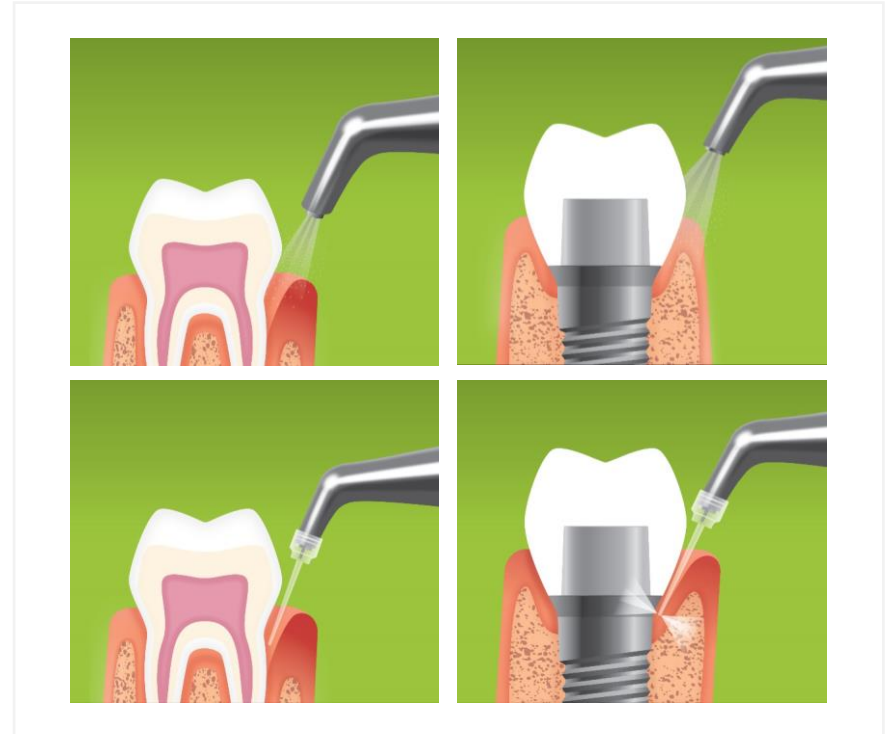


Subgingival



Correct use - subgingivally

- > Sulcus:
45° - 90° to the gingival margin
distance ~ 0,5 cm
- > continuous movement, overlapping
- > Subgingial pockets > 3mm:
alongside the root shape
- > place suction in V-position
- > continuous movement, overlapping



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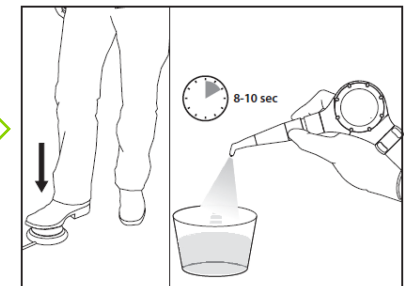
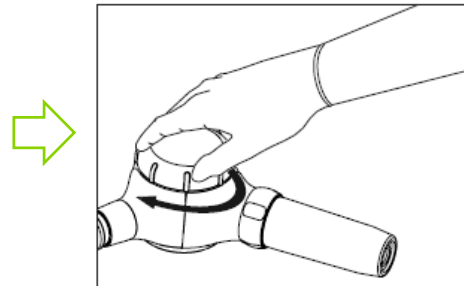
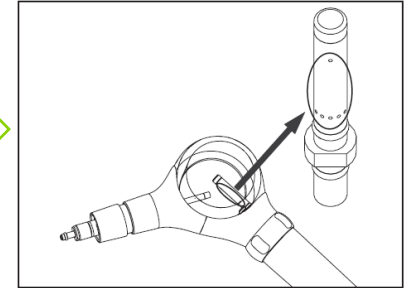
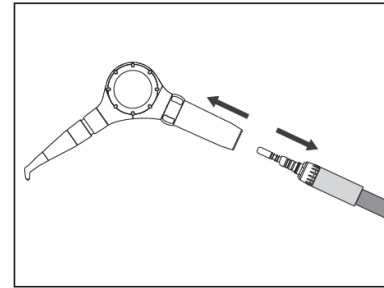
After treatment

Regular maintenance is absolutely mandatory!
Recommended after every treatment **to avoid clogging!**

 Only takes **2** minutes!

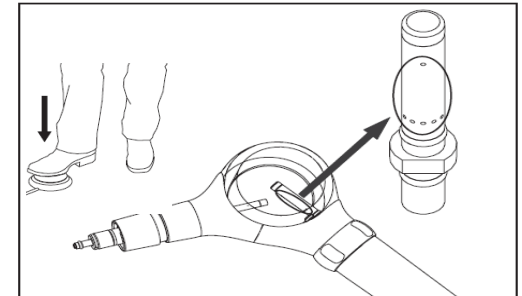
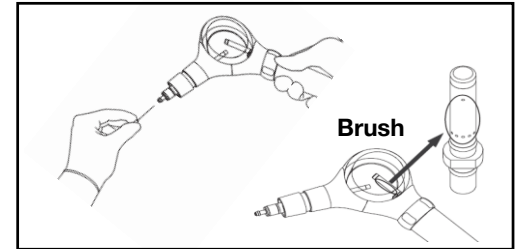
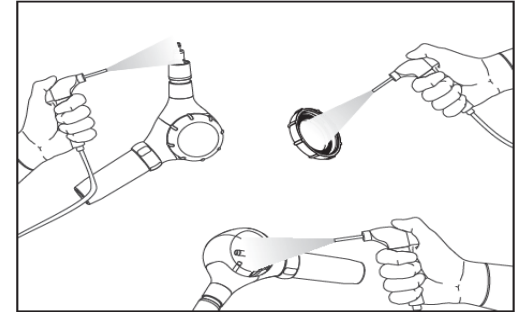
Regular maintenance 2

> Every time you change powder and before the cleaning and sterilization process!



How to remove clogging handpiece

- > Clear the air polishing handpiece from remaining powder residues with **compressed air**.
- > Use the cleaning **needle** $\varnothing 0,8\text{mm}$ to clear the anterior air bore of the handpiece of powder residue
- > Use the **brush** to clear the diffusor within the powder container from powder residues.
- > **Connect** the handpiece (with unscrewed cap of the powder chamber) to the turbine connection **and activate the foot control**.



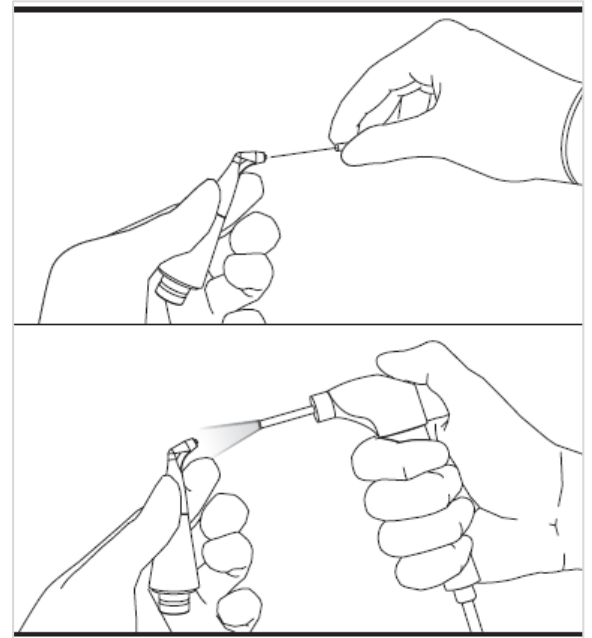
How to remove clogging spray head

- > Use the cleaning needles included to free the central air hole from any residues of powder.

From behind: needle Ø 0,8mm

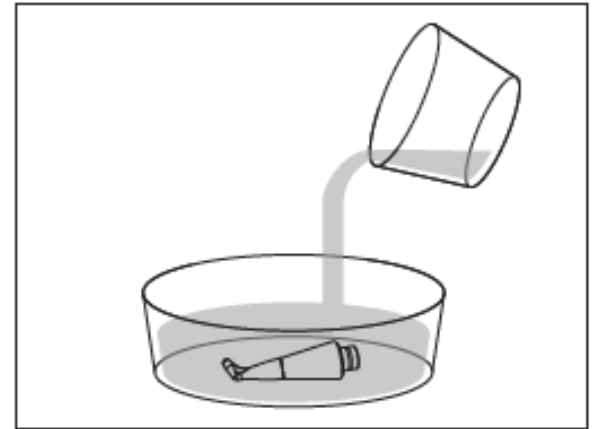
From the front: needle Ø 0,4mm

- > Whenever the spray head is removed it is necessary to blow compressed air with the syringe from **both sides** into the **central hole** of the spray head, so as to avoid the accumulation of residues of powder.



How to remove clogging spray head

- > If the spray head gets clogged due to the excessively hard water, it is recommended to dip it in a 2 % solution of acetic acid for a few minutes.



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Possible reprocessing methods

- > Subgingival perio tips: single use only!
Delivered: single packed, sterile
- > For details and processing please refer to user manual capter 06

	Wipe disinfection	Ultrasonic bath	Thermal washer disinfectior	Autoclave
Basic handpiece	X			
Spray heads	X	X	X	X
K9 wrech	X	X	X	X
Cleaning needle	X			X



Troubleshooting



TROUBLESHOOTING

The cap of the powder container cannot be unscrewed

Possible cause

The air polishing handpiece is connected to the turbine coupling and the powder container is pressurised

Solution

Disconnect the spray head from the air polishing handpiece so as to depressurize the internal circuit.

In case this is not working, use the needle to free the anterior air channel of the air polishing handpiece with the needle \varnothing 0,4mm.



TROUBLESHOOTING

Leakage of powder from the cap of the container

Possible cause

Cap not correctly screwed in place

Solution

Screw the cap on correctly

Possible cause

The cap seal is not properly positioned in its place or is worn

Solution

Check the positioning of the cap seal or replace it if worn

Possible cause

Residues of powder in the thread

Solution

Blow compressed air on the thread of the powder container



TROUBLESHOOTING

No powder comes out of the spray head during operation

Possible cause

Dental unit not correctly connected to the air supply

Solution

Check the connection between the dental unit and the air supply

Possible cause

The powder container of the air polishing handpiece is empty

Solution

Fill in the powder container respecting the max. quantity

Possible cause

Too much powder in the container

Solution

Adjust the correct level of powder in the container



TROUBLESHOOTING

No powder comes out of the spray head during operation

Possible cause

Air polishing handpiece is clogged due to excessive moisture in the powder or insufficient cleaning / maintenance

Solution

See recommendations in section “How-to”

Possible cause

Sprayhead is clogged due to excessive moisture in the powder or insufficient cleaning / maintenance

Solution

See recommendations in section “How-to”



TROUBLESHOOTING

No water comes out of spray head during operation

Possible cause

Dental unit not correctly connected to the water supply

Solution

Check the connection between the dental unit and the water supply

Possible cause

Water too hard and clogs spray head

Solution

Immerse the spray head it in a 2 % solution of acetic acid for a few minutes

Possible cause

Water filter of dental unit clogged

Solution

Check the connection to the water supply of the dental unit



TROUBLESHOOTING

Treatment ineffective

Possible cause

Insufficient pressure of the air-supply circuit

Solution

Check the pressure in the air supply of the dental unit (2,200 – 3,000 PSI, 2.2 – 3.0 bar)

Possible cause

Level of powder inside the container too low or too high

Solution

Adjust the correct level of the powder in the container

Possible cause

Spray head clogged by too much moisture in the powder or by insufficient cleaning/maintenance

Solution

Remove the powder from the container and clean it with a dry cloth.

See recommendation how to free the spray head – section “How-to”



TROUBLESHOOTING

Treatment ineffective

Possible cause

Water/powder flow is irregular and/or intermittent

Solution

Check the O-rings on the spray head connection of the air polishing handpiece. Replace them when they are worn or broken.

Possible cause

The air polishing handpiece is angled more than 45° compared to the correct position.

Solution

Correctly position the handpiece.
Remember that the spray head can be rotated 360°.

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