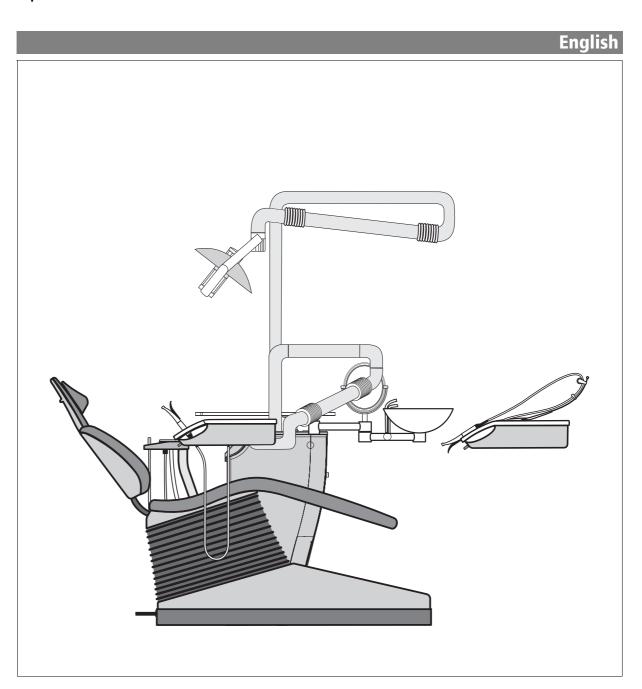


ProFeel⁺

Operator Manual



General information

Dear customer,

Thank you for purchasing your ProFeel⁺ dental treatment center from Sirona.

The technical documentation supplied is also part of the product. You should always keep this documentation within reach.

This **Operator Manual** describe your treatment center with maximum possible equipment.

For care of your treatment center, please observe the instructions "Care and Maintenance by the Practice Team" (Chapter 12).

To safeguard your warranty claims, please complete the attached "Installation Report/Warranty Passport" together with the service engineer immediately after the installation of your treatment center.

Separate Operating Instructions and the corresponding instructions for care have been attached to all dental instruments, the SIROLUX FANTASTIC, the SIVISION 3, the SIROCAM 3, the ProSmile Handy, the working stool and the tray.

Prior to start-up, you must read all Operating Instructions to familiarize yourself with the treatment center.

To prevent any personal injury or material damage, pay special attention to any notes printed in bold type or marked in one of the ways indicated below:

Additional information, explanation or supplement.

1 NOTE

CAUTION

WARNING

The information provided under this keyword directly concerns the functioning of the product and/or warns against possible operating errors.

This warning symbol warns against possible hazards for the product, the patient or the user.

In case you get stuck despite having thoroughly studied the Operating Instructions, please contact your dental depot.

Your ProFeel+ Team

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1

Explanation of the symbols used

Icon	Explanation
I	ON
0	OFF
!	ATTENTION
T 10A H	Fuse
—	Clean with water
	Warning of danger
STOP	Emergency stop function
NO	Wrong
	No/not OK
o.k.	Right
max. 2 kg 4,4 lbs	Maximum load
X	Wrong

Icon	Explanation
ICOII	
*	Patient chair up
*	Patient chair down
3	Patient chair upright
\$	Patient chair inclined
	Factory settings
^	Activate chair program S,
49	rinsing position
' 💝	(Last memory function)
\$0	Activate chair program 0, entry/exit position
\$1	Activate chair program 1, upper jaw treatment position
¢2>	Activate chair program 2, lower jaw treatment position
⇒\$>	Individual programming, rinsing position S
⇒ 0 >	Individual programming, entry/exit position 0
⇒ <u>1</u> >	Individual programming, upper jaw treatment 1

Icon	Explanation
1) S	Short acoustic signal
<u> </u>	Long acoustic signal
>10s	Time in seconds
<10m	Time in minutes
\bigcirc	Stop chair movement
O	Brake applied
(O)	Brake released
	Speed increase
	Speed reduction
	Observe operating instructions of the manufacturer
	Spray cooling
	Changing the intensity of spray air/spray water

Icon	Explanation
⇒ 2 >	Individual programming, lower jaw treatment 2
135°C 275°F	Can be sterilized in the autoclave at 135 °C/275 °F
93°C 197°F	Can be thermodisinfected in the thermodisinfector at 93 °C/197 °F
	3-way syringe – water
{= C	3-way syringe – air
€ 	3-way syringe – spray
A	Can be set only by the service engineer
位	Tumbler filler
~~	Cuspidor flushing
903	Press and hold key
(A)	Release key
3	Press key briefly
\	SIROLUX FANTASTIC
₩	Maximum brightness

Icon	Explanation
+/-	Increase/reduction of a variable
\approx	Approximately
لها	Tap water
	After consulting hours
or	Or

Icon	Explanation
**	SIROLUX FANTASTIC
*	Reduced brightness
<u> </u>	Heat dissipation
	Amalgam recycling
M	CW rotation of electric micromotor
M	CCW rotation of electric micromotor
	Individual overwriting of factory settings

2

Warning and safety information

2.1 General warning and safety information

Intended use

This dental treatment center is intended for prophylactic treatment as well as diagnosis, therapy and dental treatment of humans by properly trained personnel.

This unit is **not** intended for **operation in areas subject to explosion hazards**.

The **on-site installation** must have been performed according to our requirements. The details are described in the document "Installationsvoraussetzungen".

As manufacturers of dental medical equipment and in the interest of the operational safety of your system, we stress the importance of having **maintenance and repair** of your treatment center performed only by ourselves or by agencies expressly authorized by us. Furthermore components influencing the safety of the system should always be replaced with **original spare parts** upon failure.

When having such work done, we suggest that you request a certificate stating the type and extent of work performed, including information about any modifications of the rated parameters or of the operating ranges (if applicable), as well as the date, name of organization and signature.

Modifications of this system which could impair the safety of the system owner, patients or other persons are prohibited by law!

For reasons of product safety, only original Sirona accessories approved for this product, or accessories from third parties approved by Sirona, may be used. The user is responsible for dangers resulting from the use of non-approved accessories.

If any devices not approved by Sirona are connected, they must comply with the applicable standards:

IEC 60950 for information technology equipment (e.g. PCs), and IEC 60601-1 for medical electrical equipment.

Any person who assembles or modifies a medical electrical system complying with the standard IEC 60601-1-1 (safety requirements for medical electrical equipment) by combining it with other equipment (e.g., by connecting it with a PC) is responsible for ensuring that the requirements of this regulation are met to their full extent for the safety of the patients, operators and environment.

In case of doubt, contact the manufacturer of the system components.

On-site installation

Maintenance and repair

Modifications to the system

Combination with other equipment

Hygiene and disinfection

Highly immunosuppressed patients should not come in contact with water from the treatment center. The use of sterile solutions is recommended.

The national requirements and recommendations for hygiene and disinfection must be observed (e.g. RKI, ADA, CDC etc).

The ProFeel⁺ complies with the requirements of IEC 60601-1-2:2001.

Medical electrical devices are subject to special precautionary measures regarding EMC. It must be installed and operated in compliance with the specifications provided in the document "Installationsvoraussetzungen".

Portable and mobile RF communication systems may interfere with medical electrical equipment. Therefore, the use of mobile wireless phones in practice or hospital environments must be prohibited.

With video systems:

Electromagnetic disturbances in the environment of the ProFeel⁺ may result in reduced image quality. In such cases, it is advisable to repeat the exposure before saving the image.

In case of line voltage drops, image data stored in the video camera may be lost. Deposit the camera and repeat the exposure.

Image artifacts may possibly occur as a result of radio-frequency interference caused by the transmitters of e.g. radio services or radio amateurs.

The workstation includes strong magnets which can affect cardiac pacemakers of patients, users and technical personnel.

Therefore, please pay attention to the safety information on page 18.

Highly immunosuppressed patients should not come in contact with water from the treatment center. The use of sterile solutions is recommended.

Air and water supply must meet the requirements specified in the installation instructions. Use only clean water.

To ensure compliance with the medical and national legal requirements for water from treatment centers, Sirona recommends equipping the treatment center with a disinfection system. As owner of the treatment center, you are responsible for the water quality and may have to take alternative measures to ensure its compliance if you operate the treatment center without a disinfection system.

Please contact your specialized dealer or your relevant dental association for the respective national requirements and measures.

Electromagnetic compatibility (EMC)

Influence on cardiac pacemakers

Treatment of highly immunosuppressed patients

Quality of water/air supply

Water quality compliance

Identification of warning and safety information

Symbols used

Ventilation slots

Vacuum system

Cuspidor

Patient chair

Electric micromotors in dentist element

Drive motors for chair and backrest

Maintenance of the treatment center



To avoid personal injury and material damage, you must



Observe accompanying documents (on rating plate of chair)

Under no circumstances may the ventilation slots on the unit be covered, since otherwise the air circulation will be obstructed.

Do not spray disinfectants or other similar products into the ventilation slots.

The suction removal of aluminum and other metal oxides from blasting devices via the automatic separator and the amalgam separator integrated in the treatment center is prohibited!

This would cause extreme wear and clogging of the suction and water paths.

A separate vacuum system must be used in connection with metal oxide blasting devices.

Treatment centers equipped with a central wet suction system are generally suitable for suction removal of the above material. However, make sure to observe the instructions provided by the manufacturer of your vacuum system.

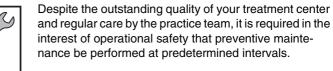
No restrictions apply when using salt blasting devices in connection with Sirona treatment centers. However, in such cases, make sure that the system is subsequently flushed with an adequate amount of water.

Do not use any foaming domestic cleaning agents!

Please note that, according to EN ISO 6875, the dental chair has a maximum load capacity of 135 kg (tested with four-fold safety factor according to IEC 60601-1).

Intermittent operation: 1 min. ON - 7 min. OFF with a motor current of 1.5 A.

6 % duty time, cycle time 250 s.



In order to guarantee the operational safety and reliability of your treatment center and to avoid damage due to natural wear, you as the system owner must have your system checked through regularly by an authorized service engineer from your dental depot. Furthermore, safety checks must be performed.

Dismantling and reassembly

Disposal

Please contact your dental depot to obtain a maintenance offer.

For details please refer to chapter "Maintenance".

When dismantling and reassembling the system, proceed according to the installation instructions for new installation in order to guarantee its functioning and stability.

It applies generally that the national regulations have to be complied with when disposing of this product. Please observe the regulations applying in your country.

Within the European Economic Community the directive 2002/96/EEC (WEEE) for electrical and electronic devices requires environmentally compatible recycling / disposal.

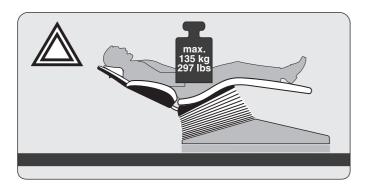


Your product is marked with the adjacent symbol. With the goal of environmentally compatible recycling / disposal, your product must not be disposed of with the domestic refuse.

The black bar under the "refuse bin" symbol means that it has been put onto the market after 13.08.2005. (See DIN EN 50419:2005)

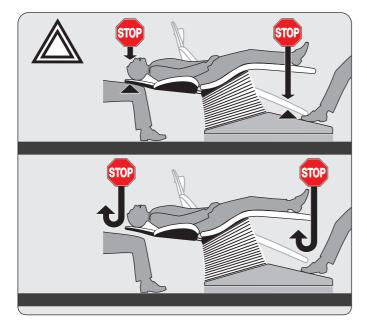
Please note that this product is subject to the directive 2002/96/EEC (WEEE) and laws applicable in your country and must be sent for environmentally compatible recycling / disposal.

Please contact your dealer if your product should be finally disposed of.



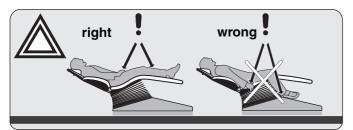
Maximum load capacity of the treatment chair

Please observe the maximum load capacity of the chair of 135 kg according to EN ISO 6875 (tested with a four-fold safety factor according to IEC 60601-1).



Safety stop for patient chair

- Headrest
- Backrest
- Toeboard

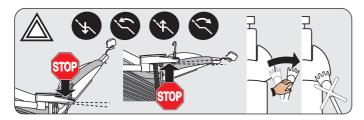


Hand/foot placement

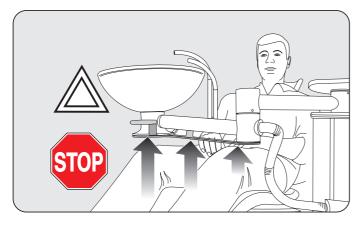


ACAUTION

Make sure that no obstacles (e.g. window wings, drawers, devices, ...) extend into the movement range.



Safety stop for assistant element



Cuspidor EMERGENCY STOP

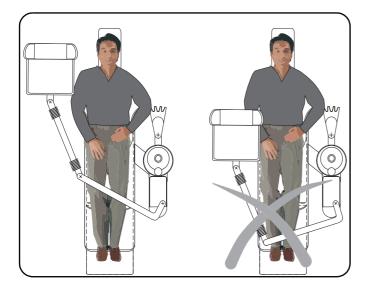
Caution!

Danger of injury: The patient's legs may get caught or be pinched.

Prevent collision of the patient or seat upholstery with the support arm of the cuspidor during movement of the chair.

In case of a collision, a safety switch (switching strip underneath the cuspidor) cuts off the chair movement.

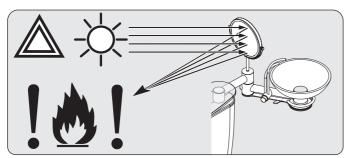
As soon as the pressure is removed from the switching strip (e.g. by swiveling away the cuspidor), the chair can be moved again.



Position of the dentist element

CAUTION

When moving the chair (via program or manually), make sure that the patient does not under any circumstances come into contact with the support arm or the dentist element.

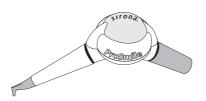


Patient mirror



Fire hazard: There could be a risk of fire due to the burning glass effect.

Do not expose mirror to direct sunlight!





ACAUTION

For the patient:

Patients who are on a restricted sodium diet or suffer from severe respiratory illness should not undergo treatment with the powder jet instrument.

Patients wearing contact lenses should remove them before treatment or wear protective goggles.

For more safety information, please refer to the Operating Instructions supplied with the ProSmile Handy.

3

Technical description

Model designation ProFeel⁺

Power supply 100 V/115 V/127 V/230 V AC 50/60 Hz

Nominal current 11.5 A at 100 V AC 10 A at 115 V AC

9 A at 127 V AC 5 A at 230 V AC

Main unit fuse T 10A H, 250 V AC, Order No. 10 77 460

Operating conditions Ambient temperature: 10 °C – 40 °C (50 °F – 104 °F)

Relative humidity: 30 % – 75 %

Air pressure: 700 hPa – 1060 hPa

Transport and storage conditions Temperature: $-40 \,^{\circ}\text{C} - +70 \,^{\circ}\text{C} \, (-40 \,^{\circ}\text{F} - +158 \,^{\circ}\text{F})$

Relative humidity: 10 % - 95 %

Air pressure: 500 hPa - 1060 hPa

Protection class Class I equipment

Degree of protection against electric shock

Type B applied parts,

except SIROCAM 3/SIROCAM C:

Type BF applied parts



Degree of protection against ingress of water

Ordinary equipment (not protected)

The foot switch has an IPX1 degree of protection against liquids

(drip-proof).

Operating mode Continuous operation with intermittent loading corresponding to

the dental mode of working.

Permanently connected unit.

Year of manufacture



On rating plate of chair

Tests/approvals

This dental treatment center complies with the requirements of

IEC 60601-1: 1990 + A1: 1993 + A2: 1995 and of

IEC 60601-1-2: 2001.



DVGW: This system complies with the technical rules and requirements on safety and hygiene for connection to the drinking water supply (if the appropriate DVGW marking is affixed to it).

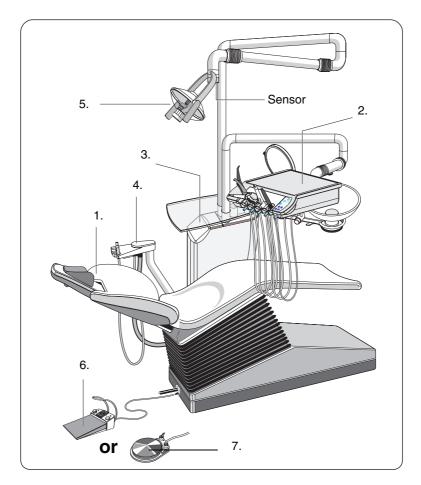


This product bears the CE marking in accordance with the provisions of the Council Directive 93/42/EEC of June 14, 1993 concerning medical devices (MDD).

4

Controls and functional elements

4.1 System overview of ProFeel⁺ with OTP dentist element



Possibilities for assigning the instrument positions

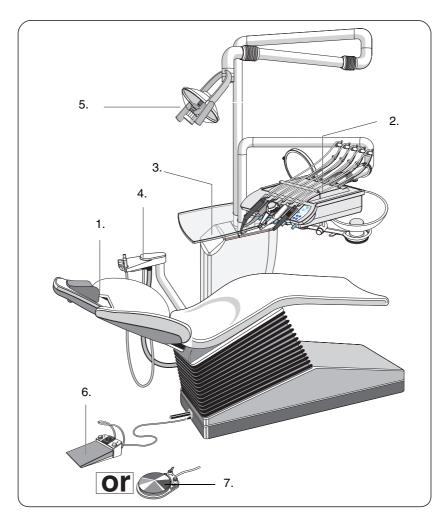
Position 1	Position 2	Position 3	Position 4	Position 5	On right side of dentist element
SPRAYVIT	Electric motor or ProSmile Handy or Airscaler	ProSmile Handy or Airscaler	ProSmile Handy or Airscaler or Camera or Mini L.E.D.	SIROSONIC L	Mini L.E.D.

- 1. Patient chair
- 2. Dentist element
- 3. Water unit
- 4. Assistant element
- 5. SIROLUX
- 6. Instrument foot switch with program positions
- 7. Instrument foot switch



For operation of the SIVISION 3 video system, please refer to Operating Instructions 59 67 893.

4.2 System overview of ProFeel⁺ with dentist element swivel arm



Possibilities for assigning the instrument positions

Position 1	Position 2	Position 3	Position 4	Position 5
SPRAYVIT	Electric motor or ProSmile Handy or Airscaler	ProSmile Handy or Airscaler	ProSmile Handy or Airscaler or Camera or Mini L.E.D.	SIROSONIC L

- 1. Patient chair
- 2. Dentist element
- 3. Water unit
- 4. Assistant element
- 5. SIROLUX with sensor
- 6. Instrument foot switch with program positions
- 7. Instrument foot switch

Putting the system into operation

Initial startup

The disinfection system adds a disinfectant to the water (1:100) to prevent the formation of microorganisms in the water system.

Prior to initial startup of your treatment center, sanitation must be performed.

If the service engineer skipped the sanitation procedure after installation of your treatment center on the basis of an agreement with you or sanitation has not been performed for more than 2 weeks, please perform sanitation as described in Chapter 12.6 Disinfection system sanitation.

Sanitation takes approx. 24 hours.



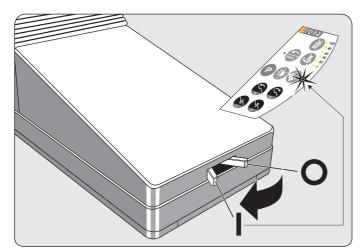
Switch **ON** the main switch (I).

☑ The ready-for-operation LED lights up.



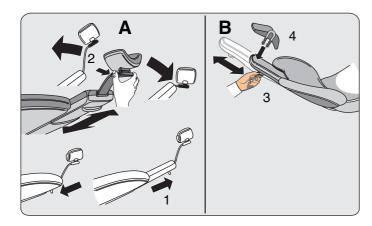
LCAUTION

For safety reasons, always switch the treatment center OFF (O) after consulting hours. This cuts off the air and water supply as well as the line voltage.



6 Patient chair

6.1 Articulated headrest / Flat headrest



Adjusting the headrest

A Articulated headrest (Option)

The headrest must be adjusted manually.

To do this, take the load off the backrest and pull out or push in the headrest using the handle (1).

Tilt the headrest backward using the locking button (2).

B Flat headrest

The headrest must be adjusted manually.

To do this, take the load off the backrest and pull out or push in the headrest using the handle (3).



AUTION

A strong magnet is integrated in the underside of the head cushion (4) which could affect a nearby cardiac pacemaker.

Therefore, please avoid bringing the magnet in close proximity of a cardiac pacemaker of a patient, user or technical personnel.

In addition, direct contact of the head cushion with magnetic cards can lead to a data loss.

6.2 MultiMotion



Adjustment to patient's height

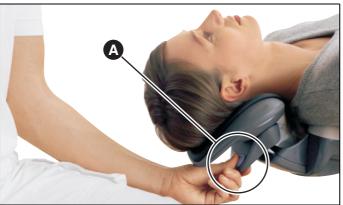
The headrest can be adjusted to the patient's height by pulling out or pushing in the headrest extension. This adjustment is usually required at the beginning of treatment!



II NOTE

Before positioning the patient on the headrest, make sure that the head support has been optimally adjusted to the patient's height. This simplifies all subsequent work with the MultiMotion considerably, since readjustment to the patient's height can thus be omitted when changing over from mandibular to maxillary treatment.

The MultiMotion enables you to adjust the patient's head in a way that optimally supports viewing of areas of the mouth which are difficult to access.



Adjustment of hyperextension

Mandibular position

The mandibular position can be set by pulling the operating handle (A). The anatomical movement of the arched extension keeps the patient's head in the sup-

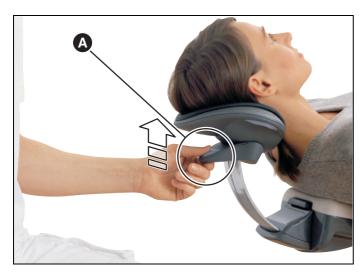
Pull the headrest out of the guide by pulling handle A.





NOTE

You can reduce the adjustment noise by pressing release A.



Maxillary position

- Take the load off the headrest by lifting it slightly.
- Press release A on the handle.
- Let the headrest slide down slowly.
- Let go of the release when the headrest reaches the desired position.





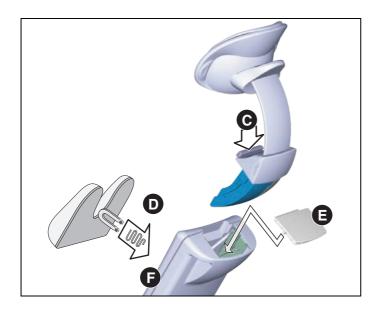
Rotation and tilt

The MultiMotion enables rotation of the patient's head about the longitudinal axis of his body as well as lateral tilting of his head.

The MultiMotion is set to the desired position as follows:

- Press and hold one or both of the two side control elements B.
 - The rotation and tilt adjustment locks of the headrest are now released.
- 2. Set the headrest to the desired position.
- 3. Let go of the control elements B.
- ☑ The supporting surface is fixed in place.

Make sure that the headrest is indeed fixed in place after you let go of the control elements!



Removing the MultiMotion

For certain treatments (e.g. of children) it may be expedient to remove the MultiMotion completely in order to obtain better access to the patient. The patient's head will then be supported on the contact surface of the headrest extension F.

To remove the MultiMotion, proceed as follows:

- Press release button C.
- Pull the complete headrest out of the headrest extension.
- 3. Cover the opening of the headrest extension with cover cap E.
- 4. If a children's head pad **D** is available, place it on the headrest extension. The head pad is held magnetically.



1 NOTE

The children's head pad (D) is not included in the scope of supply, however, is available from your dental dealer.



!! WARNING

The children's head pad (D) contains a strong magnet on its bottom side. This magnet could affect any cardiac pacemaker located nearby.

Therefore, do not allow patients, users and technical personnel with a cardiac pacemaker to be located near this magnet.

Furthermore, direct contact of the head pad with magnetic cards can lead to data loss.



1 NOTE

Deposit the removed MultiMotion in a safe place where it cannot fall onto the floor.

Inserting the MultiMotion

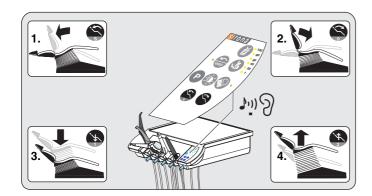
To insert the MultiMotion, proceed as follows:

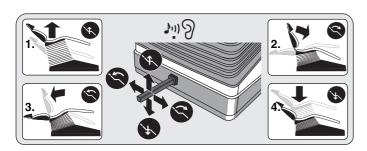
- Check the guide of the removed headrest for contamination. Remove any contamination.
- Remove the cover cap E.

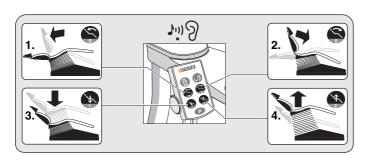
Reinsert the MultiMotion in the guide from above until it audibly locks in place.

Pull on the headrest again to make sure that it is locked securely in place.

6.3 Patient positioning







Positioning with the control panel

You can start the motorized chair movements manually with the keys on the control panel of the dentist element.

☑ During operation, a short acoustic signal sounds.

Overview:

- 1. Backrest inclined backward
- 2. Backrest upright
- 3. Patient chair down
- 4. Patient chair up

Positioning with the 4-way foot control

You can start the motorized chair movements manually with the 4-way foot control.

☑ During operation, a short acoustic signal sounds.

Overview:

- 1. Patient chair up
- 2. Backrest upright
- 3. Backrest inclined backward
- 4. Patient chair down

Positioning with the control panel on the assistant element

You can start the motorized chair movements manually with the keys on the control panel of the assistant element

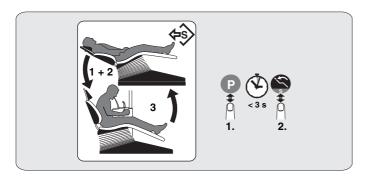
☑ During operation, a short acoustic signal sounds.

Overview:

- 1. Backrest inclined backward
- 2. Backrest upright
- 3. Patient chair down
- 4. Patient chair up

6.4 Chair programs – factory settings





Chair programs

There are 4 factory-set chair positions. These settings can be adjusted individually (see section "Chair programs – reprogramming" on page 24).

Program S

Reserved for mouth rinsing position.

Activation:

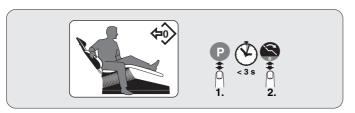
- 1. Press key P.
- 2. Press key S within 3 seconds.

The chair moves to the mouth rinsing position.

In combination with program key **S** it is possible to activate the cuspidor flushing function and the fountain for filling the tumbler.

See Chapters 10.6 and 10.7.

3. When you press key P and then key S again, the treatment center returns to its previous position (memory position).



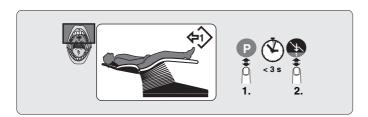
Program 0

Reserved for entry/exit position.

Activation:

- 1. Press key P.
- 2. Press key 0 within 3 seconds.

The chair moves into the entry/exit position.



Program 1

Reserved for upper jaw treatment position.

Activation:

- 1. Press key P.
- 2. Press key 1 within 3 seconds.

The chair moves to the lower jaw treatment position.



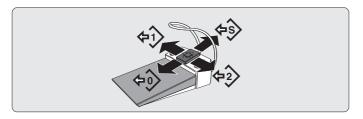
Program 2

Reserved for lower jaw treatment position.

Activation:

- 1. Press key P.
- 2. Press key 2 within 3 seconds.

The chair moves into the lower jaw treatment position.



Activation with foot switch

Instead of activating the programs with the program keys, you also have the option of activating them with the 4-way foot control plate of the foot switch.

Actuate the 4-way foot control plate in the desired direction

to the front = program S

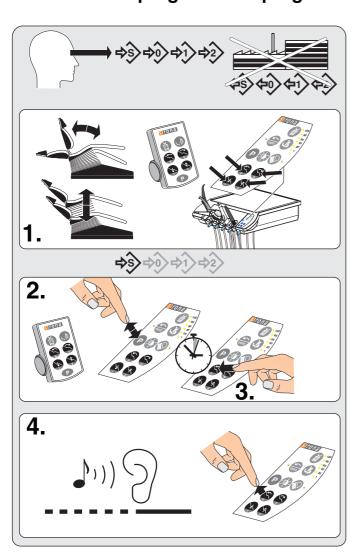
to the back = program 0

to the left = program 1

to the right = program 2

The chair moves into the selected position.

6.5 Chair programs – reprogramming



NOTE

The factory program is overwritten on reprogramming.

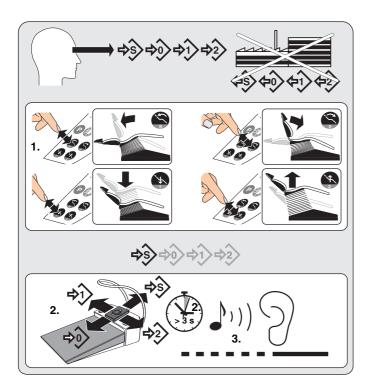
Each chair program (S, 0, 1, 2) can be programmed individually.

Reprogramming of the four chair programs is always done in the same way:

- 1. Move the chair into the desired position by pressing the corresponding keys on the control panel.
- 2. Press program key P briefly.
- 3. Press the desired key (S, 0, 1, 2) within 3 seconds and hold it down.
- After 6 short audible signals and 1 long one, release the key.

The new position is saved.

6.6 Chair programs – reprogramming with the foot switch



The chair programs can also be reprogrammed with the foot switch.

- Move the chair into the desired position by pressing the corresponding keys.
- 2. Press the 4-way foot control plate in the desired direction for at least 3 seconds.

to the front = program S

to the back = program 0

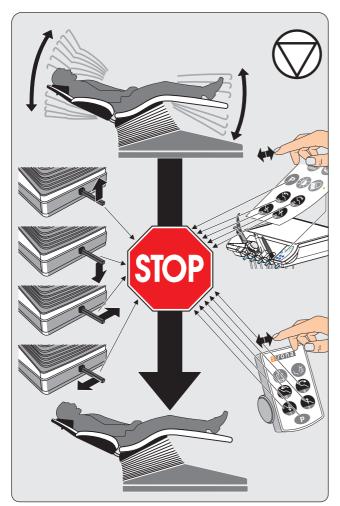
to the left = program 1

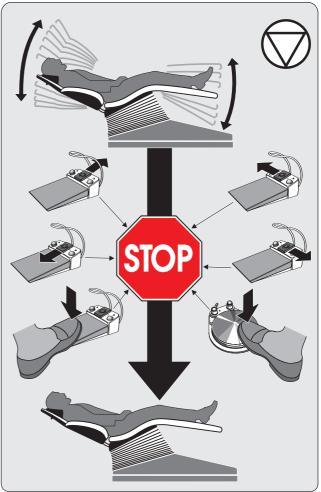
to the right = program 2

3. After 6 short acoustic signals and 1 long one, release the 4-way foot control plate.

The chair position is saved.

6.7 Emergency stop function for chair movement





There are several ways to stop the chair movement instantly:

1. Control panel

Each stroke of keys $P,\,0,\,1$ and 2 stops the chair movement.

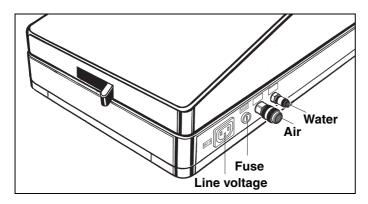
2. 4-way foot control

Each actuation of the 4-way foot control stops the chair movement.

3. Chair foot switch

If the foot switch is actuated, all chair movements stop.

6.8 Patient chair, options



Technical data and requirements

Media block on the patient chair

Additional equipment which is approved for dental use (e.g. by EMS) may be connected to a media block on the base of the chair (observe manufacturers' specifications for the additional equipment).

The media block is equipped with quick couplings for air and water and an outlet with a separate fuse (6.3 A) for non-heating equipment.

For treatment centers with a disinfection system, the DVGW approval (EN1717/DIN1988) remains valid also with an integrated media block. In this case, the additional equipment connected to the treatment center also complies with the requirements of EN1717/DIN1988.

Connected equipment is treated with disinfected water if a disinfection system is installed. This water contains 0.1 ‰ to 0.2 ‰ hydrogen peroxide during regular operation and 1.4 % of the same agent during sanitation.



CAUTION

Before connecting any additional equipment, check to make sure that it is suitable for hydrogen peroxide. If the connected equipment is not suitable for the higher sanitation concentration, Sirona recommends disconnecting it from the treatment center during sanitation and sanitizing it separately in accordance with the manufacturer's specifications.

Sirona does not assume any liability for possible damage to the connected equipment!

	Pressure	Flow rate
Water	2.2 ± 0.2 bar	max. 300 ml/min
Air	4.4 ± 0.5 bar	max. 70 NI/min

Dentist element and instrument functions

7.1 Locking the dentist element

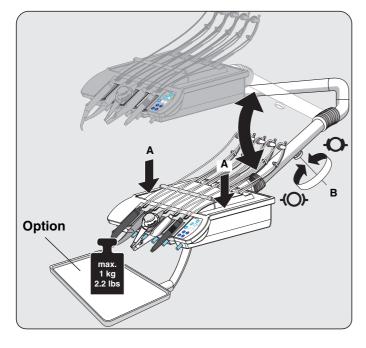


OTP dentist element

- 1. Loosen the positioning of the dentist element by turning the fixing screw (B) counterclockwise.
- Position the dentist element at the desired height.
- Hold the dentist element with one hand in that posi-
- Lock the position of the dentist element by turning the fixing screw clockwise.



The maximum load of the dentist element is 2 kg (4.4 lbs)



Dentist element with swivel arm



CAUTION

A =Never place any objects on this dentist element!

- Loosen the positioning of the dentist element by turning the fixing screw (B) counterclockwise.
- Position the dentist element at the desired height.
- Hold the dentist element with one hand in that posi-
- 4. Lock the position of the dentist element by turning the fixing screw clockwise.

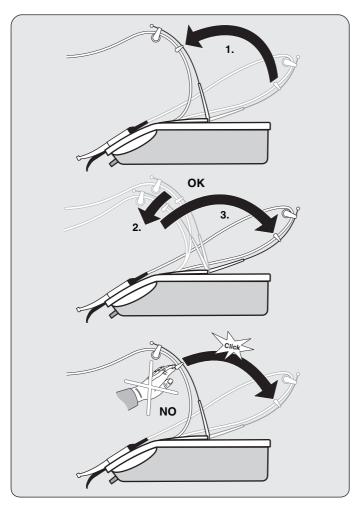
Option: Tray



I NOTE

The maximum load of the tray is 1 kg (2.2 lbs)

7.2 Swivel arm



Operation

The swivel arms of the instrument hoses snap into the end position (1) (not with SPRAYVIT).

To unlock the swivel arm, pull it to the front (2) and then to the back (3).

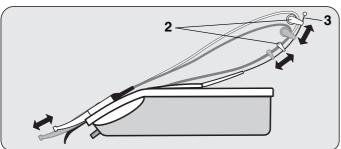
ACAUTION

Do not press the swivel arms to the rear while they are locked; otherwise the locking mechanism may be destroyed!

The spring elements optionally built into the swivel arms provide optimum access to the patient.

The instrument picked up first is ready for use.

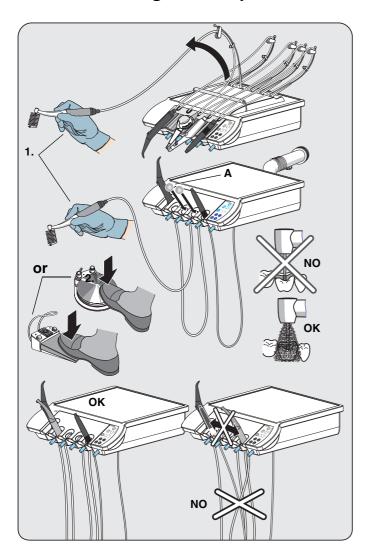
To start an instrument after picking it up, actuate the foot switch.



Optimizing the position

The position of the instruments on the rack can be optimized by shifting the guide rollers (2) on the swivel arms (3).

7.3 Starting an handpiece



- 1. Remove the instrument from the instrument holder, (OTP dentist element) or rack (dentist element with swivel arm).
- 2. Actuate the foot switch.

The instrument starts running.



AUTION

Do not operate the handpieces without spray. Always place the instrument back in the correct holder.



I NOTE

Also observe the operating instructions for all type of handpieces and the video system.



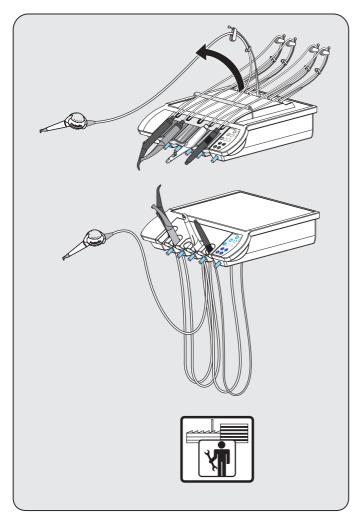
AUTION

Use only treatment instruments approved by Sirona!



A = Unused instrument holders must be sealed with a ball!

7.4 Adjusting the driving air pressure



ACAUTION

The driving air pressure must be set by a service engineer only.



ACAUTION

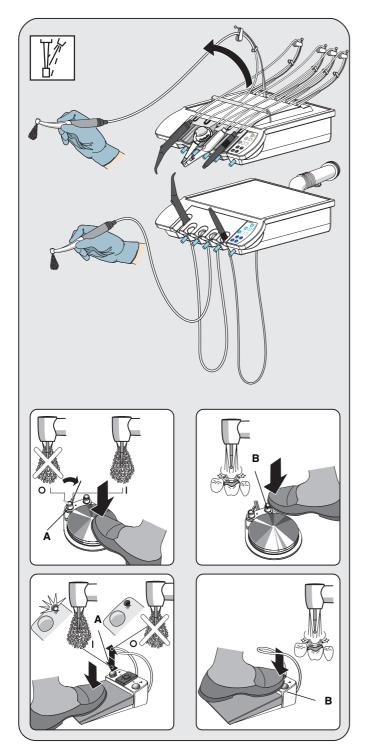
The driving air pressure is set according to the specification of the handpiece manufacturer.



ACAUTION

The driving air is factory set for ProSmile Handy.

7.5 Instrument spray ON/OFF – chip blower



Spray

With the foot switch the spray can be switched ON/OFF by pressing the left button (A) on the foot switch with the handpiece removed.

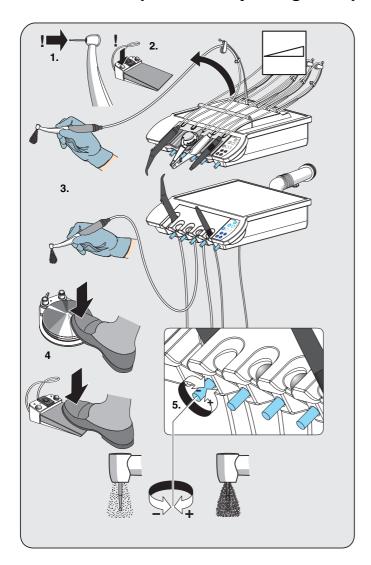
Chip blower

The **chip blower** is activated by pressing the right button (**B**) on the foot switch with the handpiece removed. As long as you keep the button pressed, an air jet escapes from the nozzle of the burr instrument.



For the foot switch pictured opposite, "Spray ON" is shown by a green indicator in the top left corner.

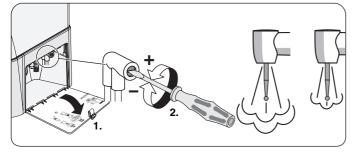
7.6 Handpieces – adjusting the spray intensity



Spray WATER

The **spray intensity** is preset at the factory. However, it can be adjusted by means of the control valve at the bottom front part of the dentist element.

- 1. Insert the bur.
- 2. Preselect spray on the handpiece foot switch.
- 3. Remove the handpiece.
- 4. Actuate the handpiece foot switch.
- Adjust the spray water using the knob at the handpiece holder or rack, located at the bottom of the dentist element front side.

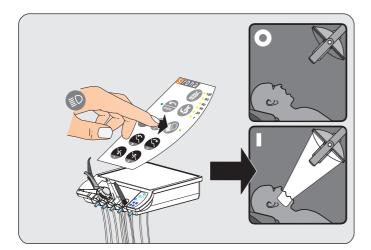


Spray AIR

- 1. Open the flap on the base of the water unit.
- 2. Adjust the amount of air by means of the valve.

This setting is then valid for all handpieces.

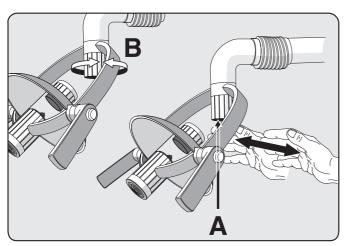
7.7 SIROLUX FANTASTIC



Switching ON/OFF

To switch ON/OFF, press the corresponding key on the dentist element control panel.

Light intensity: 24000 lux

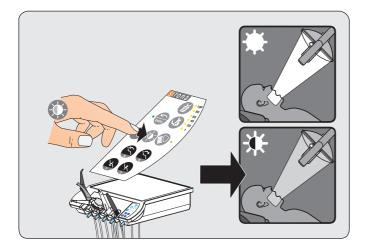


Proximity switch

The lamp can also be switched ON and OFF via a proximity switch.

Move your hand into the area under the black cover (A).

The brightness can be regulated by turning the knob (**B**).



Brightness reduction

Adjust the brightness with the corresponding key on the control panel.

Light intensity: 24000 lux

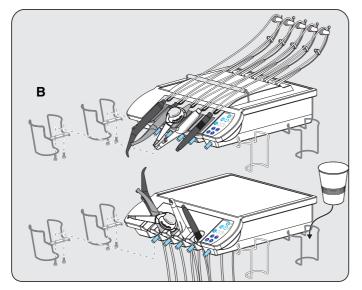
Light intensity: 8000 lux

Further information

For more information on operation, care and cleaning, please refer to the Operating Instructions of the SIROLUX FANTASTIC.

8 Dentist element options

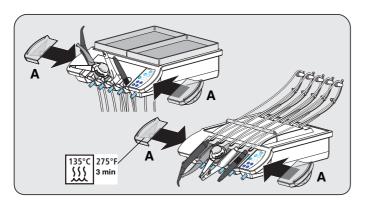
8.1 Tumbler holder



Mounting positions

The tumbler holder **B** can be mounted in four different positions on both dentist element versions.

8.2 Silicone handles, right/left

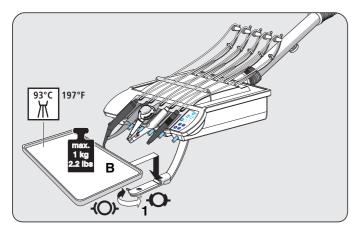


The silicone handles A serve for hygienic protection of the control panel and the gripping area on the dentist element.

They can be removed for cleaning and sterilizing.

The silicone handles can be sterilized in the autoclave at temperatures up to 135 $^{\circ}\text{C/275}$ $^{\circ}\text{F},$ 3 minutes.

8.3 Tray



Installation

A tray can be mounted on the dentist element version with swivel arm.

Place the tray ${\bf B}$ in position and clamp it with the lever (1).

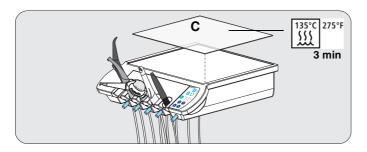


CAUTION

Maximum load: 1 kg (2.2 lbs)

The tray can be removed for cleaning. To do so, release the lever (1).

8.4 Silicone mat

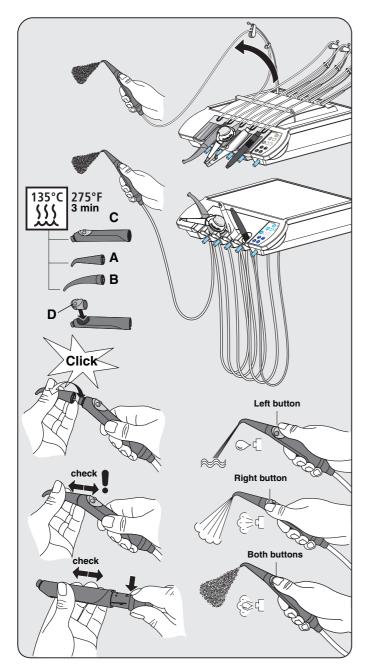


The silicone mat **C** serves for hygienic protection of the storage surface.

It can be removed for cleaning and sterilizing.

The silicone mat can be sterilized in the autoclave at temperatures up to 135 °C/275 °F, 3 minutes.

SPRAYVIT 3-way syringe 8.5



Remove the SPRAYVIT 3-way syringe and press the corresponding medium button(s).

- Left buttonTaste = air
- Right button = water
- Both buttons = spray

Nozzle versions:

- A, Standard short
- B, Option bent

The nozzles A, B and the handle sleeve C can be pulled off for cleaning and sterilizing. The nozzles can be sterilized in the autoclave at temperatures up to 135 °C/ 275°F, 3 minutes.

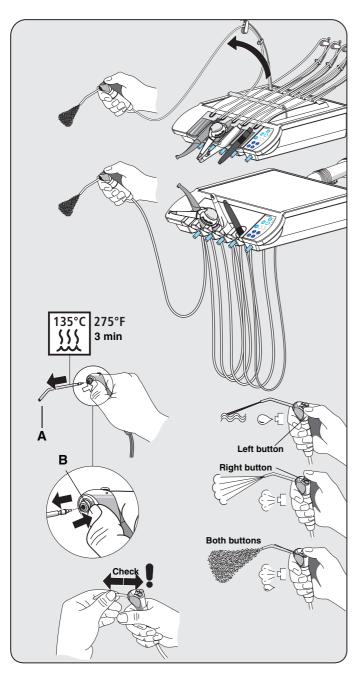
For easier cleaning turn the insert **D** while pulling it off.



CAUTION

After having refitted the nozzle and handle sleeve, check wether they are firmly engaged.

8.6 3-way syringe



Remove the 3-way syringe and press the corresponding medium button(s).

- Left button = water
- Right button = air
- Both buttons = spray

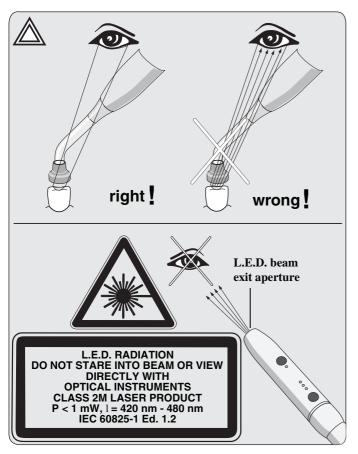
The nozzle (A) can be pulled off for cleaning and sterilizing after pressing the release ring (B). The nozzle can be sterilized in the autoclave at temperatures up to 135 °C/275 °F, 3 minutes.



ACAUTION

After having refitted the nozzle and handle sleeve, check wether they are firmly engaged.

8.7 Satelec Mini L.E.D. curing light



Safety information



CAUTION

Always use the glare shield!

The light beams emitted by this instrument may be hazardous and may never be directed to the eyes of any person, even if this person wears goggles with protective lenses. The light may be directed exclusively to the treatment area in the oral cavity.



CAUTION

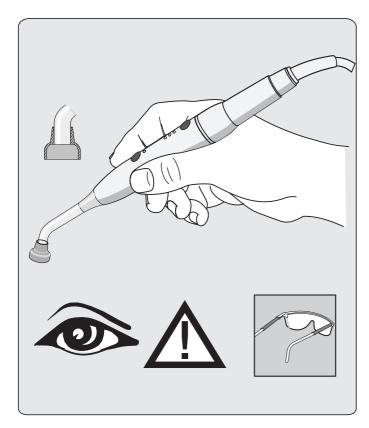
Do not stare into the beam path with the glass rod removed (Class 2M laser product).

Viewing the LED light exit aperture with certain optical instruments (e.g. a magnifying lens) within a distance of 100 mm may constitute an eye hazard.



/ CAUTION

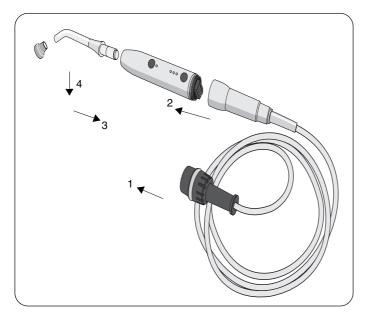
Heavy line voltage drops may lead to a shutdown of the Mini L.E.D. The fault is signaled by a double beep. Check the selected operating mode and restart the Mini L.E.D.



Any condensation occurring in the handpiece of the Mini L.E.D. may cause impairments (e.g. fogging of the L.E.D.). When moving the handpiece from a cool environment to a warm room, always wait for it to reach room temperature before putting it into operation.

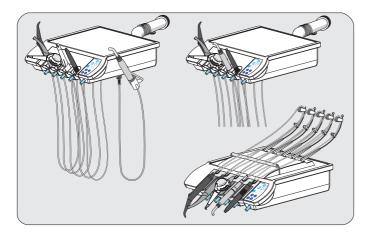
Curing lights must not be used on persons who are suffering from or have in the past been afflicted by photobiological reactions (including solar urticaria and erythropoetic porphyria). Nor should they be used on persons currently being treated with any medicine which increases one's sensitivity to light (including methoxsalene and chlorotetracycline).

Any persons who have in the past suffered from retinal or eye lens disorders or have undergone eye surgery, especially for gray cataracts, must consult their medical eye specialist before using the light or undergoing treatment with the Mini L.E.D. Caution is advisable even if the patient gives his or her consent, since the light intensity can cause accidents. It is especially advisable to always wear appropriate protective goggles (UV filter).



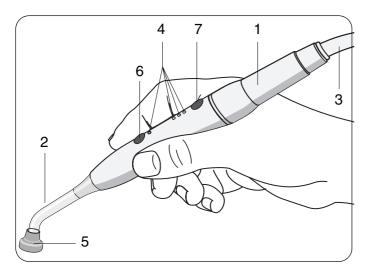
Installation

- 1. Connect the supply cable to the treatment center.
- 2. Screw the handpiece on.
- **3.** Attach the sterilized light guide to the handpiece. Make sure to insert the light guide correctly.
- 4. The light guide engages with a "click".
- Slip the glare shield onto the light guide. It protects your eyes against reflected light.



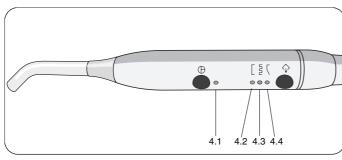
Installation options

- In the assistant element, holder 4
- Additional holder (not possible with swivel arm)



Handpiece and accessories

- 1. Handpiece
- 2. Light guide
- 3. Supply cable
- 4. Status LEDs
- 5. Glare shield
- 6. ON/OFF switch
- 7. Function button



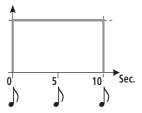
Operating modes

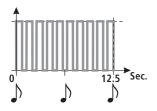
The Mini L.E.D. has three different modes. To select the desired menu, press the function button.

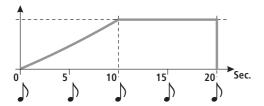
4.1 Status LED

The status LED signals the following states:

Color	Mode
green	Normal operation
red, flashing	Overheat protection







4.2 Quick curing mode

In this mode the **Mini L.E.D.** operates at full power for 10 seconds.

LED 4.2 shows your selection.

In this mode, the light intensity output is approximately as follows:

- 1100 mW/cm² (± 10 %) with the standard light guide, dia. 7.5 mm.
- 2000 mW/cm² (± 10 %) with the optional booster light guide, dia. 5.5 mm.

4.3 Pulsed curing mode

This mode is selected by pressing the function button (7). The light operates at full power in "pulsed" mode; it emits radiation in 10 consecutive light pulses of 1 s each. Between the individual pulses there is a 250 ms break. LED 4.3 shows your selection.

4.4 "Soft start" mode

This mode is selected by pressing the function button (7). The "soft start" mode provides:

- A 10-second "soft start" from 0 to 1100 mW/cm², or from 0 to 2000 mW/cm² with the (optional) "booster light guide", dia. 5.5 mm.
- Full power during 10 seconds.

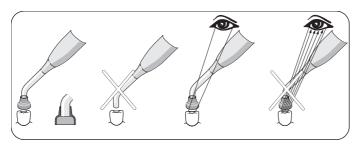
LED 4.4 shows your selection.

Handling

After you switch on the treatment center, the **Mini L.E.D.** is by default in the quick curing mode (4.2).

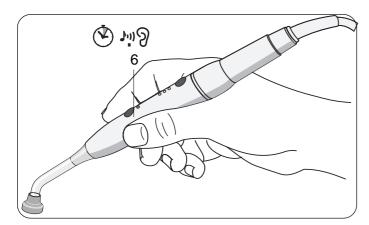
If you change the operating mode of the **Mini L.E.D.** while the treatment center is in operation, the new mode remains valid even after the **Mini L.E.D.** is placed in its holder.

After you have selected a mode, the **Mini L.E.D.** is ready for operation.



Position the light guide as close as possible to the composite material surface you want to photopolymerize. Make sure that the light guide never touches the material to be cured, as this may cause damage to the light guide and reduce its effectiveness.

- Never work without the glare shield (5).
- Never look into the light which is reflected by the tooth surface.



To start the polymerization cycle, briefly press the ON/OFF switch (6). This is confirmed by an audible signal.

In each mode, an audible signal sounds every 5 seconds.

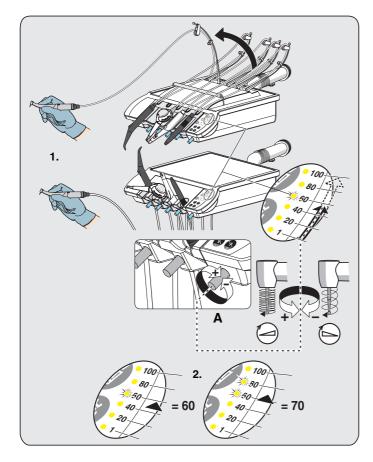
The end of the cycle is also indicated by an audible signal. You may interrupt the cycle at any time though by lightly pressing the ON/OFF switch.

Technical data

Model:	Mini L.E.D.
Weight of handpiece without hose:	105 g
Dimensions:	dia. 23 mm x 240 mm
Power supply of handpiece:	5 V DC/2 A
Thermal safety:	Overheat protection

Wavelength:	420 nm – 480 nm
Light power dia. 7.5 mm (standard version):	1100 mW/cm ²
Light power dia. 5.5 mm (optional, available from Satelec):	2000 mW/cm ²
Light power:	450 mW – 500 mW
L.E.D. laser power:	< 1 mW

8.8 SL/EL 1 electric motor





LCAUTION

Use only Sirona electric motors!

Setting the maximum speed

- 1. Remove the handpiece.
- The display shows the value last set as maximum speed.
- Modify the speed using control knob A.
- ☑ The set value is shown on the display.

Speed in %	LED/display					
	1	20	40	60	80	100
1 - 4	•					
5 - 14	•	•				
15 - 24		•				
25 - 34		•	•			
35 - 44			•			
45 - 54			•	•		
55 - 64				•		
65 - 74				•	•	
75 - 84					•	
85 - 94					•	•
95 - 100						•

3. Put the instrument back in place.

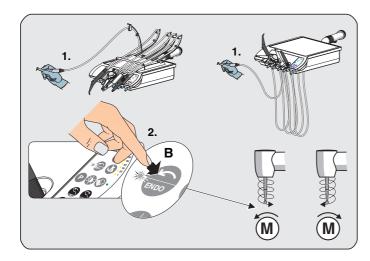
The set value is saved during this action.

Motor speed control with the Sirona unit foot switch

- 1. Remove the handpiece.
- 2. Actuate the foot switch.



The speed instantly rises to the preset maximum value.



Reversing the direction of rotation of the motor

- 1. Remove the handpiece.
- oxdot The default setting is clockwise rotation.
- 2. Press key B.
- ☑ The LED lights up.

The new direction of rotation remains valid until the handpiece is placed back in its holder, or until key ${\bf B}$ is pressed again.

Table 1: Explanation of the symbols

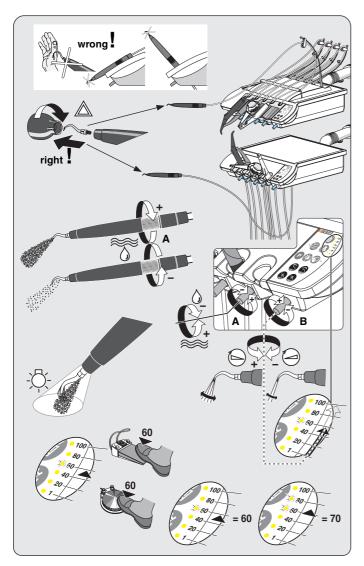


Motor CCW



Motor CW

8.9 SIROSONIC L endodontic scaler - normal operation



Setting the power intensity

The full power of the ultrasonic oscillator is available in normal operation.

- 1. Remove the handpiece.
- ☑ The display shows the last value set.
- 2. Adjust the intensity with control knob B.
- ☑ The set value is shown on the display.
- 3. Actuate the foot switch.

The intensity changes to the preset maximum value.

4. Put the handpiece back it its holder. The set value is saved.

Power in %	LED/display					
	1	20	40	60	80	100
1 - 4	•					
5 - 14	•	•				
15 - 24		•				
25 - 34		•	•			
35 - 44			•			
45 - 54			•	•		
55 - 64				•		
65 - 74				•	•	
75 - 84					•	
85 - 94					•	•
95 - 100						•

A = Water +/-

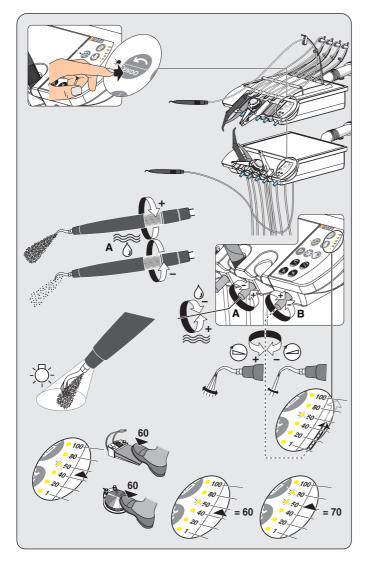
B = Preselected maximum intensity



Intensity +

Intensity -

8.10 SIROSONIC L endodontic scale - Endo mode



The Endo mode is especially suitable for paradontal treatment.

In the Endo mode, the maximum intensity of the ultrasonic handpiece is restricted to ensure safe operation.

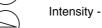
Power	LED/display					
	1	20	40	60	80	100
Step 1	•					
Step 2		•				
Step 3			•			
Step 4				•		
Step 5					•	
Step 6						•

A = Water +/-

B = Preselected maximum intensity



Intensity +

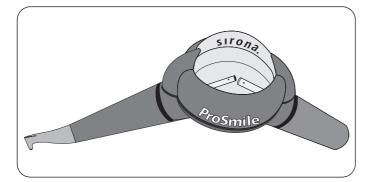




CAUTION

The set value is saved when the handpiece is placed back in its holder.

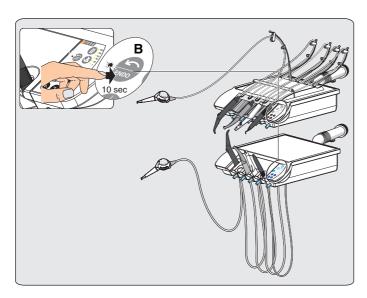
ProSmile Handy 8.11



The ProSmile Handy removes dental plaque, soft deposits and stains on all visible tooth surfaces as well as in fissures and interdental spaces.

For more details on the function and operation, please refer to the Operating Instructions of the ProSmile Handy.

The media supply is suitable for the ProSmile Handy.



Connection of the ProSmile Handy/SIROAIR



The ProSmile Handy is plugged onto a Sirona turbine hose (holder 2/3/4).

For operation in position 2

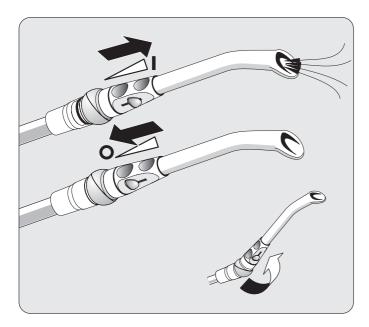
- 1. Remove the ProSmile Handy.
- 2. Press key B for ten seconds.
- \square The function is selected and saved.

For operation in positions 3 and 4

☑ No selection required

9 Assistant element

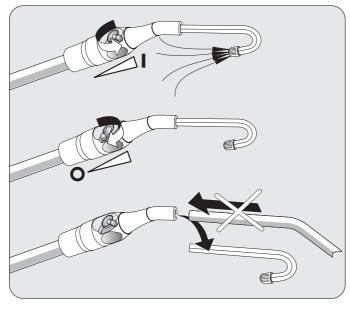
9.1 Suction handpiece/saliva ejector



Suction handpiece

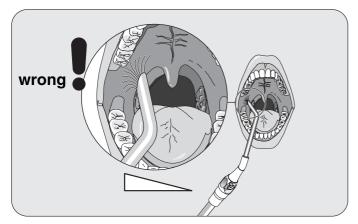
Adjust the suction intensity with the slider.

You can angle the suction handpiece by turning it.



Saliva ejector

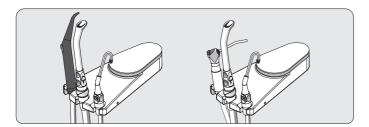
Adjust the suction intensity with the lever.





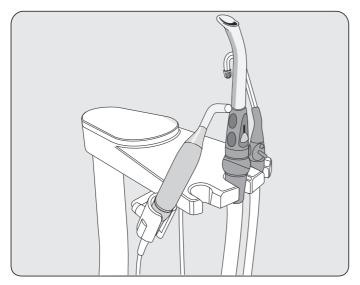
Avoid absolutely sucking in the oral mucosa!

9.2 Assistant element options



SPRAYVIT E / 3-way syringe

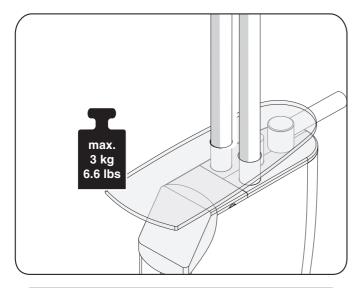
9.3 Satelec Mini L.E.D. curing light



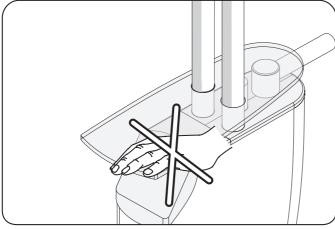
Operation: see Chapter 8.7

Water unit

10.1 Safety



Weights exceeding 3 kg must not be placed on the glass plate.

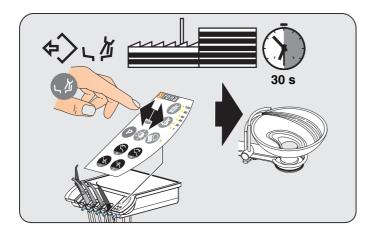




ACAUTION

Do not support yourself on the glass plate! Make sure that the patient does not support himself/herself on the glass plate e.g. when leaving the patient chair.

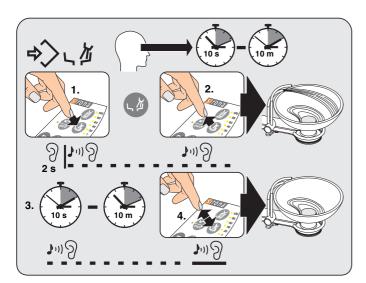
10.2 Cuspidor flushing time - factory settings (dentist element control panel)



When you press the cuspidor flushing key briefly, the cuspidor is flushed for 30 seconds (factory setting).

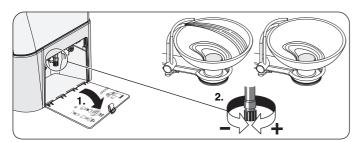
When you press the key again while the cuspidor is being flushed, flushing stops.

10.3 Cuspidor flushing time - reprogramming (dentist element control panel)



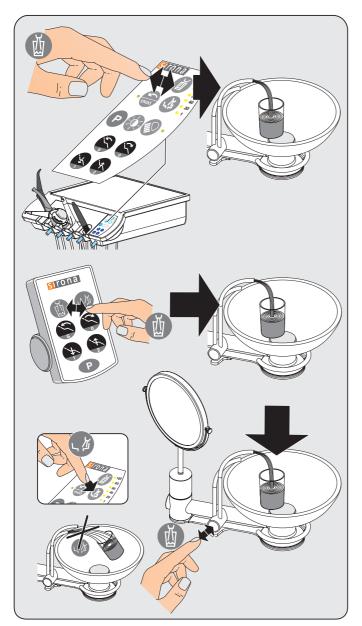
- Press the cuspidor flushing key for approx. 2 seconds until an intermittent acoustic signal sounds.
- 2. Release the key.
- You can preselect a cuspidor flushing time between 10 seconds and 10 minutes.
- **4.** Press the key again briefly after the desired flushing time has elapsed. A long acoustic signal sounds.
- ☑ The cuspidor flushing time is saved now.

10.4 Adjusting the water amount for the cuspidor



- 1. Open the flap on the base of the water unit.
- 2. Adjust the amount of water with the valve.

10.5 Operation of the tumbler filling fountain



Activation of the tumbler filling function at the dentist element

The fountain keeps running as long as the key on the control panel is pressed.

Activation of the tumbler filling function at the assistant element

The fountain keeps running as long as the key on the control panel is pressed.

Activation of tumbler filling function with the button on the support arm; this is intended for operation by the patient.

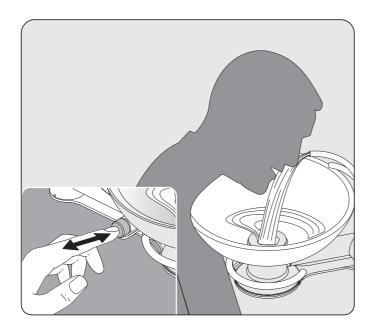
The tumbler filling function keeps running as long as the key on the support arm is pressed.



CAUTION

The tumbler must not be filled with cuspidor flushing water!

This water is not disinfected by the disinfection system.



Activation of tumbler filling function with the button on the support arm by the patient

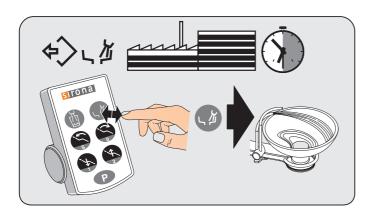
The tumbler filling function keeps running as long as the key on the support arm is pressed.



NOTE

The fountain is removable and sterilizable.

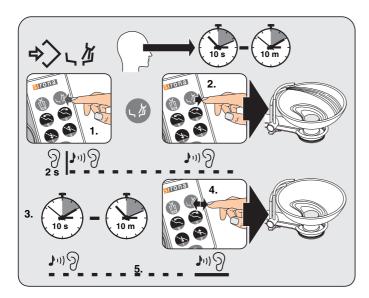
10.6 **Cuspidor flushing time - factory settings (assistant element** control panel)



When you press the cuspidor flushing key briefly, the cuspidor is flushed for 30 seconds (factory setting).

When you press the key again while the cuspidor is being flushed, flushing stops.

10.7 Cuspidor flushing time - reprogramming (assistant element control panel)

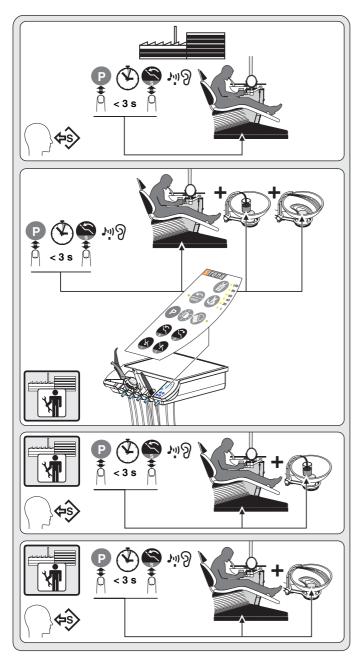


You can preselect a time between > 10 seconds and < 10 minutes.

- Press and hold down the cuspidor flushing function key. After 2 seconds an intermittent acoustic signal sounds.
- 2. Release the key.
- 3. The intermittent acoustic signal continues to sound until the end of the flushing time (10 minutes max.).

When the desired flushing time has elapsed, press the key again briefly. A long acoustic signal confirms that programming is complete now.

10.8 Combination of rinsing position S with tumbler filling fountain and cuspidor flushing controlled by dentist element



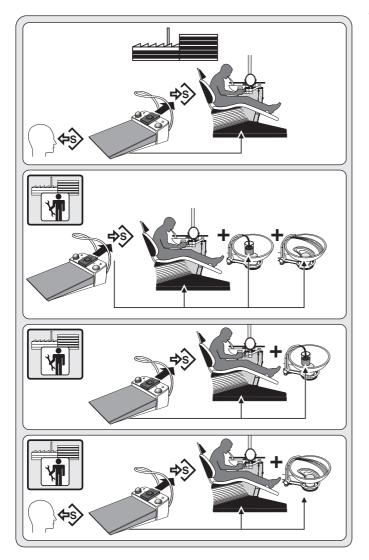
With the factory setting, neither the tumbler filling nor the cuspidor flushing function can be activated using the S key.

The combinations shown on the left can be programmed by a service engineer.



Only by a service engineer

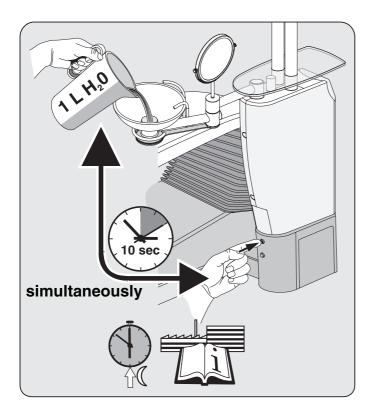
10.9 Combination of rinsing position S with tumbler filling fountain and cuspidor flushing controlled by foot switch





Only by a service engineer

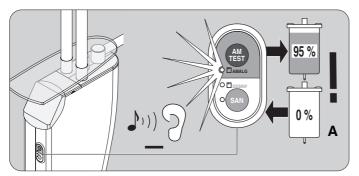
10.10 Dürr wet suction





Draw off 1 liter of cold, clear water daily after consulting hours. Press the self-cleaning button simultaneously.

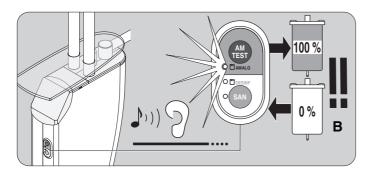
10.11 Amalgam separator



When the amalgam container reaches a filling level of 95 %, the AMALG indicator lights up.

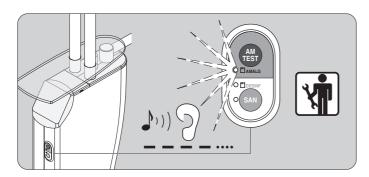
The filling level is also indicated by a short acoustic signal.

A) !Please replace the amalgam container!



When the amalgam container has reached a filling level of 100 %, the AMALG indicator lights up and a long audible signal sounds.

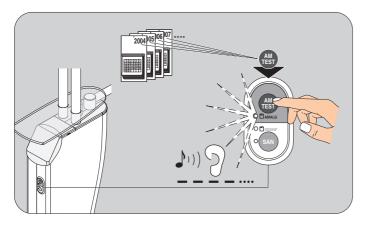
B) !!Replace the container immediately!!



The AMALG indicator flashes and an intermittent acoustic signal sounds.

An error has occurred.

Please contact your service engineer.



Functional test of the safety signal of the amalgam separator

When you press the AM TEST key, the AMALG indicator starts flashing; an acoustic signal is emitted simultaneously.



The AMALGAM test must be performed at least 1x annually.

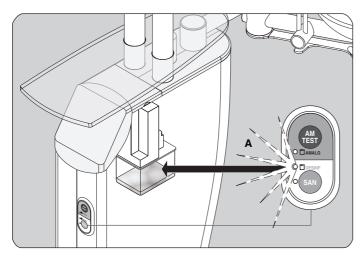
10.12 Disinfection system

Function:

The disinfection system adds a disinfectant to the water for all treatment instruments and the tumbler filling function to reduce the germ count in the water.

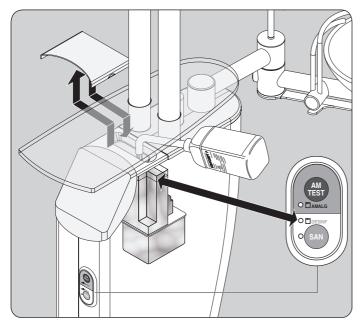


Disinfectant is not added to the water for the cuspidor flushing function.



The water unit has an indicator for the disinfectant filling

A) !If the DESINF indicator flashes, refill 1 liter of DENTOSEPT P!



Refilling DENTOSEPT P

- 1. Open the cover of the water unit.
- 2. Refill DENTOSEPT P.

The DESINF indicator stops flashing.



Your treatment center comes with a filler neck which can be screwed onto the DENTOSEPT P bottle.

11 Maintenance

Despite the outstanding quality of your treatment center, it is necessary to perform inspections and preventive maintenance as well as safety tests at predetermined intervals in order to ensure its operational safety.

These events are documented in the Maintenance Manual.

Care and cleaning is done by the practice team.

For details please refer to the following sections.

11.1 Care and cleaning by the practice team

The practice team is responsible for regular cleaning and care of the treatment center, with the aim of minimizing the risk of contamination for patients and users.

The work to be performed is specified in the chapter "Care and cleaning by the practice team".

The surfaces (apart from upholstery) can be sprayed and wiped with surface disinfectants.

11.2 Inspection and maintenance

In order to guarantee the operational safety and reliability of your treatment center and to avoid damage due to natural wear, **annual** inspection and maintenance must be performed on your treatment center. This is done by an authorized service engineer from your dental depot.

The steps to be performed as well as the parts which must be replaced are specified in the document "Maintenance Certificate".

An overview of the inspection and maintenance work performed is additionally recorded by the service engineer in the "Installation Report/Warranty Passport". This document is part of the "Maintenance Manual".

11.3 Safety checks

Medical equipment is designed in such a way that the first occurrence of a fault does not create a hazard to the safety of patients, users or other persons. Hence it is important to detect such faults before a second fault occurs, which might then lead to safety hazards.

For that reason it is essential to perform safety tests every 2 years which aim particularly at detecting electrical faults (e.g. isolation defects). This is done by an authorized service engineer from your dental depot, most practically together with the work to be performed according to section 11.2.

The check includes a visual inspection as well as measurements of the protective ground wire connections and the equivalent leakage currents.

The inspections and measurements to be performed are specified in the "Maintenance Manual". The measured values must be documented there by the service engi-

Safety tests must also be performed and documented during initial startup, after extensions/upgrades (conversion) of your treatment center and after repair work which might affect the electrical safety of the system.



1 NOTE

The treatment center must not be operated if it has failed to pass the safety tests!

11.4 **Maintenance Manual**

Keep this document near your treatment center.

Any inspection and maintenance work as well as all safety tests are documented by the service engineer in the Maintenance Manual.

We recommend that the user always keep the documentation in the chapter "Reporting of incidents to authorities/manufacturers" up-to-date, regardless of any legal requirements.

12 Care and cleaning by the practice team

12.1 Care and cleaning agents



CAUTION

Use only cleaning and care agents which are approved by Sirona!

You will find a list of all agents approved at the time of delivery in the documentation folder supplied with your treatment center.

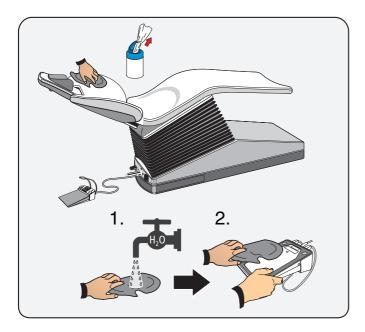
A continuously updated list of approved agents can be downloaded from the Sirona Internet homepage under REF 59 70 905: ⇒ www.sirona.com

If you do not have Internet access, you can use one of the following two ways to order the list:

- · Order from your local dental depot
- · Order from Sirona

Tel: ++49 (0) 62 51/16-16 16 FAX: ++49 (0) 62 51/16-18 18

12.2 Patient chair



Upholstery/foot switch



CAUTION



Use only cleaning agents which are approved by Sirona (see page 63 section 12.1)!

Cleaning the upholstery

For weekly care of the imitation leather upholstery, use only agents approved by us.

Disinfecting the upholstery



CAUTION



Use only cleaning agents which are approved by Sirona (see page 63 section 12.1)!

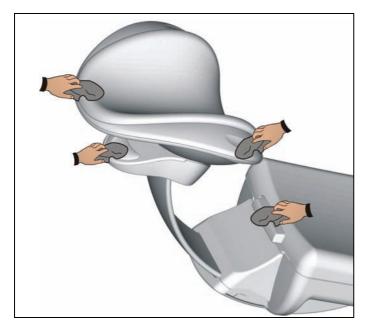
Do not use any other disinfectants!



Spray disinfection/wipe disinfection

Pedal (foot switch)

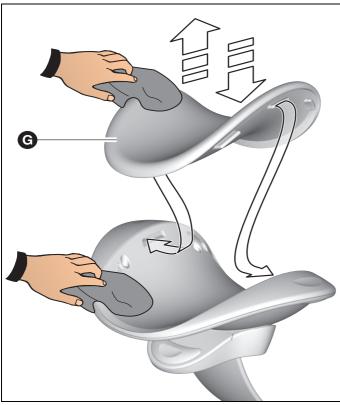
Clean the bottom of the base plate using a damp cloth.



Disinfecting the surfaces



The surfaces can be spray and wipe disinfected with surface disinfectants.



Intensive cleaning and disinfection of the head support

The contact surface of the headrest can be removed to facilitate intensive cleaning and disinfecting if necessary.



The surfaces can be spray and wipe disinfected with surface disinfectants.

Press one side of head pad ${\bf G}$ inward from the outside (to unlock it) and remove it in a upward direction.



I NOTE

Fast and frequent removal of the head pad from the front or rear can damage the snap-in noses.

- Clean and disinfect the head pad and headrest.
- Hook on the head pad again laterally.



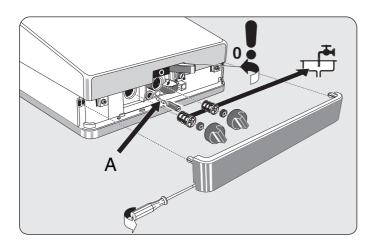
LCAUTION

Damaged pads, e.g. with scratched surfaces, must be replaced.

For reorders:

Contact surface: REF 61 82 047

12.3 Cleaning the filter, replacing the main fuse





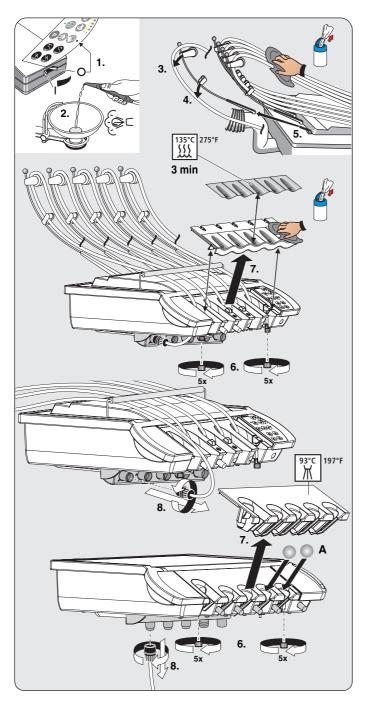
ACAUTION

Before replacing the fuse, switch OFF the unit.

The filters must be cleaned under running water.

A = T 10A H

12.4 Dentist element



Instrument hoses/instrument rack

ACAUTION



Use only cleaning agents which are approved by Sirona (see page 63 section 12.1)!

ACAUTION



SPRAYVIT Relieve pressure!

NOTE

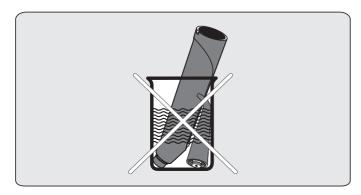
For care and cleaning of the motors, the straight and contra-angle handpieces, the highspeed handpiece and the SIROSONIC L scaler, please refer to the corresponding operating instructions.

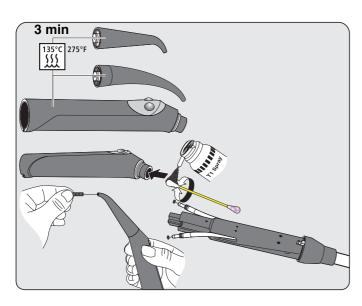


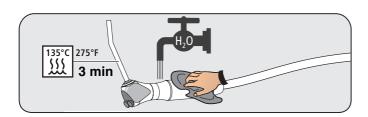
Wipe disinfection

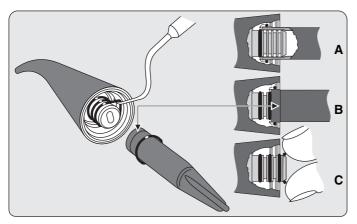
NOTE

A = Unused holders should be sealed with a ball!









SPRAYVIT 3-way syringe

ACAUTION



Use only cleaning agents which are approved by Sirona (see page 63 section 12.1)!

Chemical disinfection according to the manufacturer's specifications is permissible only externally.



CAUTION

Never place or immerse parts in disinfectant solutions!

The nozzles can be steam-sterilized in systems with a drying device and pre- or post-vacuum.



1 NOTE

Do not reprocess the nozzles in a thermodisinfector.

Only the handle sleeve and the nozzles can be steril-

Sterilize only in autoclaves at up to 135 °C, 3 minutes (2.1 bar).



! CAUTION

Do not exceed 140 °C during the drying phase!

Care afterwards:

Wipe out the handle sleeve joint with a Q-tip dipped in T1 spray regularly, especially after each disinfection and/or sterilization cycle, to prevent the dry O-rings from sticking and being damaged.

T1 spray, Order No.: 59 01 665

3-way syringe



Spray disinfection/wipe disinfection

Replacing the O-rings in the nozzle



NOTE

The O-rings must be replaced every 3 months!

Remove the three O-rings to be replaced with a hook

A To slide on the backmost O-ring, insert the supplied tool up to the stop.

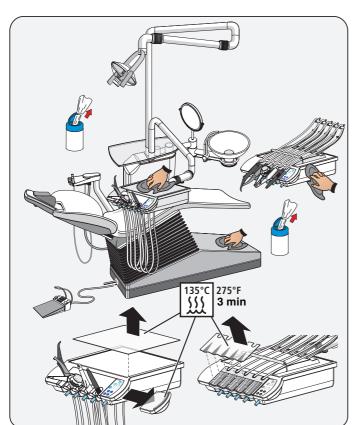
B To slide on the middle O-ring, pull out the tool up to the mark.

C The front O-ring can be inserted manually without using any tool.

Do not use any pointed objects.

Attachment to the handle sleeve: Observe instructions for care (page 67)!

O-ring set, insertion tool and 10 O-rings Order No. 41 76 751



Surfaces



CAUTION



Use only cleaning agents which are approved by Sirona (see page 63 section 12.1)!



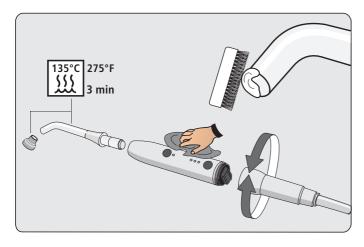
Wipe disinfection



Option



Option



Satelec Mini L.E.D.



CAUTION

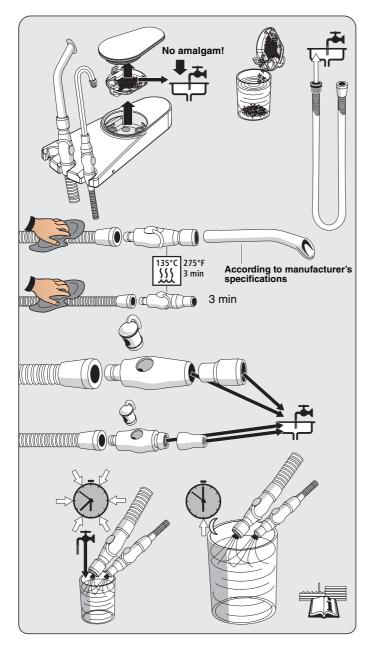


Use only cleaning agents which are approved by Sirona (see page 63 section 12.1)!

Always make sure that the Mini L.E.D. light is switched off before using disinfectants. Do not use any abrasive cleaners.

Prior to each use, check the light guides to make sure that no composite residues have adhered to them. If this is the case, remove these residues immediately and check to make sure that the surface of the insert has not been damaged. If you find any damage, replace the damaged light guide.

12.5 **Assistant element**



Suction handpiece/saliva ejector



ACAUTION



Amalgam recycling

Amalgam residues caught in the sieve must not be disposed of in the cuspidor or the



Wipe disinfection



Draw off 2 tumblers of clean water every 2 hours.



Daily after consulting hours, draw off 1 liter (0.25 gallons) of cold, clear water to clean the hoses.

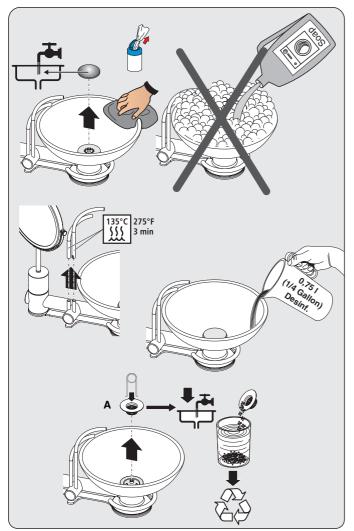


CAUTION



Use only cleaning agents which are approved by Sirona (see page 63 section 12.1)!

12.6 Water unit



Cuspidor





Use only cleaning agents which are approved by Sirona (see page 63 section 12.1)!



Spray disinfection/wipe disinfection



CAUTION



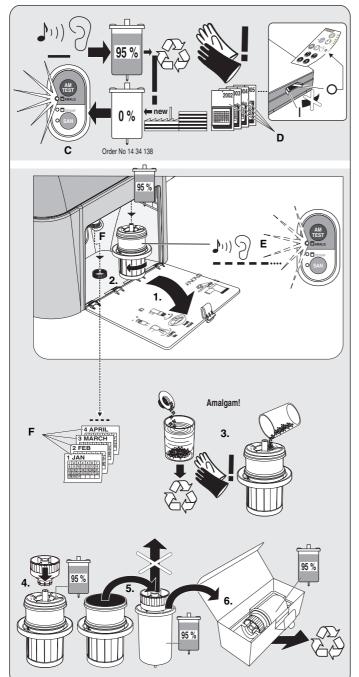
!Do NOT use household detergents or acidic agents!

Daily before the lunch break and after consulting hours

The vacuum system is subjected daily to septic secretions, saliva and blood. For hygienic reasons, the system must therefore be disinfected with a detergent/disinfectant approved for drains and sewage lines by Sirona.



If the treatment center is equipped with an amalgam separator, a coarse trap (A) is located in the cuspidor.



Amalgam separator

LCAUTION

C= When the acoustic signal sounds and the amalgam indicator lights up, replace the rotor!

D= Replace the rotor in the amalgam separator at least once a year, independently of whether the AMALG indicator lights up or not.

This prevents unpleasant odors from developing.

Replacing the rotor

- 1. Open the flap.
- Remove the rotor (signal (E) during removal).
- Put the accumulated amalgam residues in the old rotor for proper disposal.
- 4. Fit the transport cap on the full rotor until it locks in place. This releases a bonding agent. Therefore, do not remove the transport cap again!
- 5. Return the rotor in the special packaging for disposal (send it to one of the addresses listed on the slip that comes with the new amalgam rotor).
- 6. Insert the new rotor in the lower part. Do not install a used rotor!
- Close the flap again



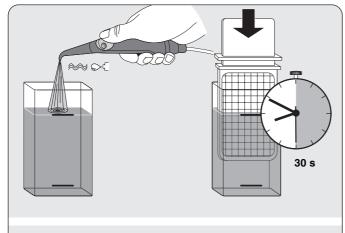
Amalgam recycling!

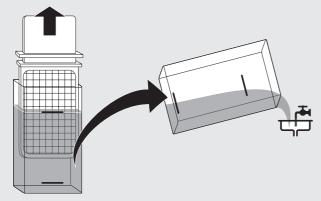
Replacement: Amalgam rotor Order No. 14 34 138

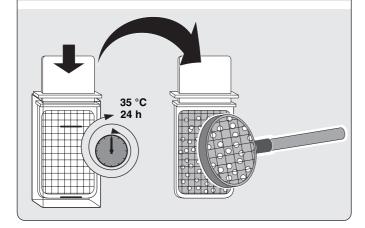
Siphon

Clean the siphon (F) in case of poor drainage of the cuspidor, otherwise once a month.

To do so, first open the flap and then unscrew the cap. Have a collector ready to catch the contents. Screw the cap back on and close the flap.







Disinfection system - microbiological water

Must be performed after a working pause of more than one week. Use a "Total Count Tester" for this purpose. The first three testers will be supplied free of charge if you return the attached voucher. Please state your address and the serial number of the chair (see "Installation Report/Warranty Passport"). Additional testers can be ordered under Order No. 58 53 775.



CAUTION

The "Total Count Tester" has a maximum durability of 1 year after its date of delivery.

The cardboard disk contains a dehydrated nutrient medium. It is activated by the sample and serves as culture medium for a number of bacteria. The number of germs provides information on the hygienic condition of the water.

Performing the test

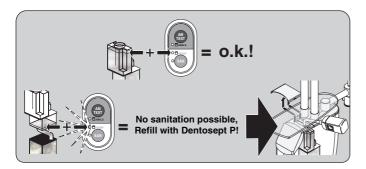
- Allow water to run out of the SPRAYVIT syringe for about 1 minute.
- Then take a water sample from this syringe. Fill in water up to the upper mark on the container. To neutralize the disinfecting agent of the water sample, add approx. 1.5 g of fixing salt (sodium thiosulfate).
 - Do not touch the inside of the container or the part of the tester to be immersed.
- Immerse the tester in the filled container for 30 seconds.
 - The cardboard disk with the nutrient medium will now absorb 1 ml of the water sample.
- Remove the tester and shake off excessive water. Empty the container completely.
- Place the tester into the empty container for incubation: Keep either for two days at room temperature or for 24 hours at a temperature of 35 °C.
- Then count all germs found on the surface of the tester.



!! CAUTION

If the number of germs significantly exceeds 100, then sanitation is required (see next page).

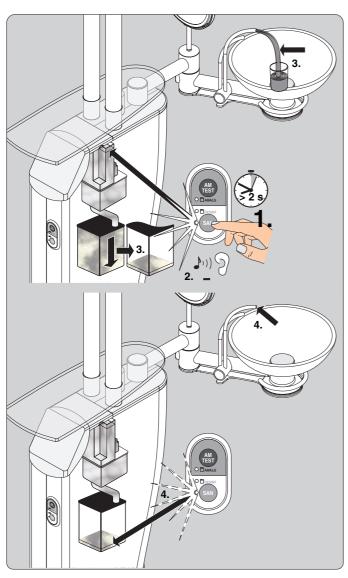
12.7 Disinfection system – sanitation



Sanitation cycle



Perform sanitation very 4 weeks.



Starting the sanitation



AUTION

Sanitation can be started only when the DESINF LED is not lit. When the red DESINF LED lights up, refill Dentosept P!



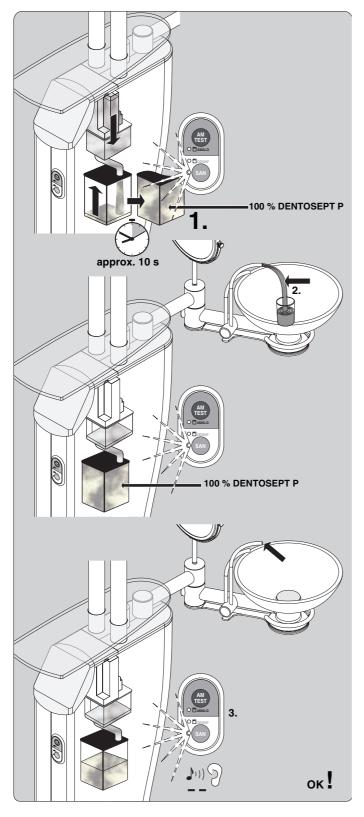
CAUTION

The sanitation procedure cannot be interrupted.

- 1. Press the SAN key for at least 2 seconds.
- 2. The SAN LED lights up and a short acoustic signal sounds. The sanitation procedure starts.

The following steps are performed automatically:

- 3. The mixing tank is emptied via the tumbler outlet.
- 4. The SAN LED starts flashing as soon as the mixing tank is empty.

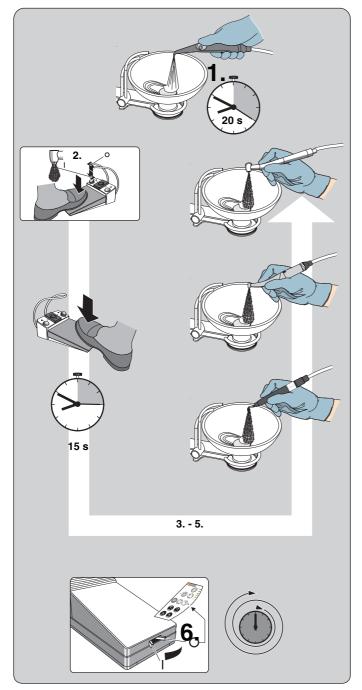


Flushing of the tumbler outlet

DENTOSEPT P = 1.41 % H_2O_2

- The mixing tank is filled with Dentosept P (approx. 10 seconds).
 The SAN LED is flashing.
- **2.** The tumbler filling fountain is flushed. The SAN LED is flashing.

After the flushing procedure is complete, an audible signal sounds (two short beeps).The SAN LED continues flashing.



Flushing of the instruments

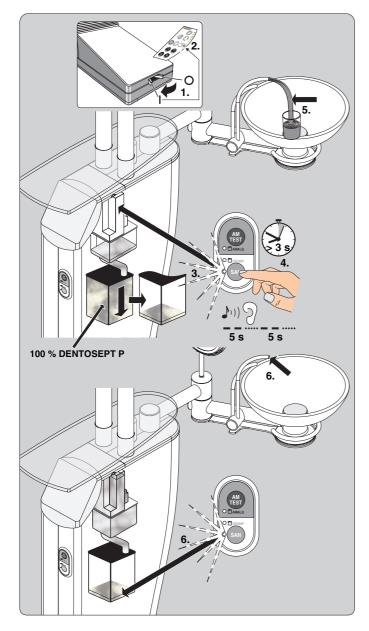
DENTOSEPT P = 1.41 % H_2O_2

- 1. Remove the SPRAYVIT and flush it for at least 20 seconds.
- 2. Activate the spray function with the foot switch.
- 3. Remove an instrument.
- **4.** Flush the instrument for at least 15 seconds by actuating the foot switch.
- 5. Repeat steps 3 and 4 for all instruments connected.

- 6. Switch off the treatment center.
- ☑ The ready-for-operation LED goes out.



Switch OFF the unit for 24 hours



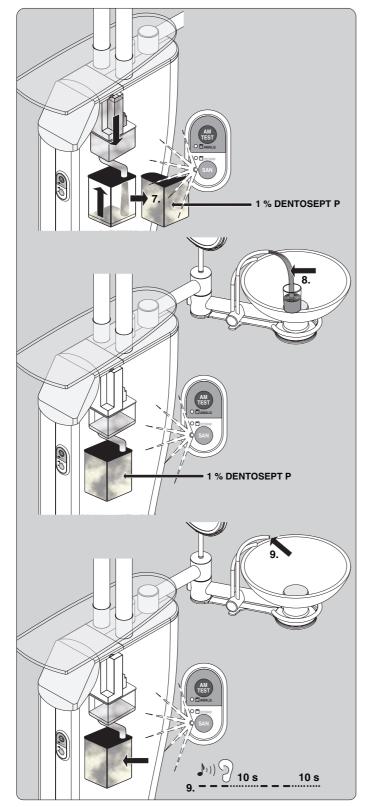
Terminating sanitation

DENTOSEPT P = $1.41 \% H_2O_2$

- 1. Switch on the treatment center after 24 hours.
- 2. The ready-for-operation LED lights up.
- 3. The treatment center is in sanitation mode: The SAN LED is flashing. A permanent acoustic signal sounds.
- 4. Press the SAN key (approx. 3 seconds).

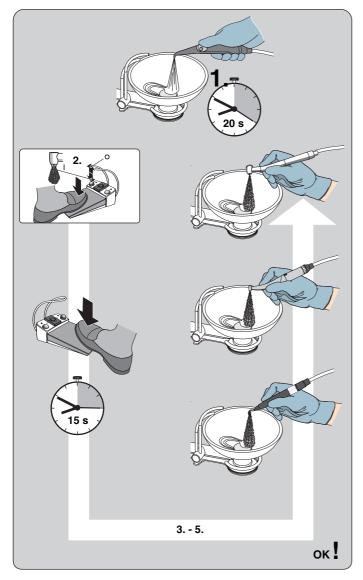
The following steps are performed automatically:

- **5.** The mixing tank is emptied via the tumbler filling fountain.
- **6.** The SAN LED starts flashing as soon as the mixing tank is empty.



- 7. The mixing tank is filled with water and Dentosept P.
- **8.** The tumbler filling fountain is flushed with a mixture of 1 % Dentosept P and 99 % water.

After the flushing procedure is complete, a permanent acoustic signal sounds repeatedly (3 short beeps, 10 second pause).



Flushing of the instruments

The instruments are flushed with a mixture of 1 % Dentosept P and 99 % water.

- 1. Flush the SPRAYVIT for approx. 20 seconds.
- Activate the spray function for the instruments by means of the foot switch.
- 3. Remove an instrument.
- **4.** Start the instrument flushing procedure by actuating the foot switch (approx. 15 seconds).
- 5. Repeat steps 3 and 4 for all instruments connected.
- $\ \ \, \square$ THE SAN LED goes out. The sanitation procedure is complete.

We reserve the right to make any alterations which may be required due to technical improvements.

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