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COXO®
Professional Dental Manufacturer
SINCE 2003



Root Canal Irrigation & Suction System

C-RCC

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Foshan COXO Medical Instrument Co.,Ltd

Read this user manual carefully before use for operating instructions

Root Canal Irrigation & Suction System is safe and reliable medical instrument.

Function and characteristics:

① Only inject sodium hypochlorite or other flushing fluid into root canal

② Only waste fluid suction.

③ Irrigation root canal continuously and cyclically

④ The flushing fluid can be heated to make the effect batter.

16 Electromagnetic Compatibility Precaution

Rated maximum output power of transmit-ter(W)	**Separation distance according to frequency of transmitter**		
	150 kHz to 80 MHz d=1.2×P^(1/2)	80 Mhz to 800 MHZ d=1.2×P^(1/2)	80 MHz to 800 Mhz d=2.3×P^(1/2)
0.01	0.12	0.12	0.23
0.1	0.38	0.38	0.73
1	1.2	1.2	2.3
10	3.8	3.8	7.3
100	12	12	23

For transmitters rated at a maximum output power not listed above, the recommended separation distance d in meters (m) can be estimated using the equation applicable to the frequency of the transmitter, where P is the maximum output power rating of the transmitter in watts (W) according to the transmitter manufacturer.
NOTE1: At 80 MHz and 800 MHz, the separation distance for the higher frequency range applies.
NOTE2: These guidelines may not apply in all situations. Electromagnetic propagation is affected by absorption and reflection from structures, objects and people.

16 Electromagnetic Compatibility Precaution

NOTE 1At 80 MHz and 800 MHz, the higher frequency range applies. NOTE2These guidelines may not apply in all situations. Electromagnetic Propagation is affected by absorption and reflection from structures, objects and people.
Field strengths from fixed transmitters, such as base stations for radio (cellular/cordless) telephones and land mobile radios, amateur radio, AM and FM radio broadcast and TV broadcast cannot be predicted theoretically with accuracy. To assess the electromagnetic environment due to fixed RF transmitters, an electromagnetic site survey should be considered. If the measured field strength in the location in which the instrument is used exceeds the applicable RF compliance level above, the instrument should be observed to verify normal operation. If abnormal performance is observed, additional measures may be necessary, such as re-orienting or relocating the instrument. b Over the frequency range 150 kHz to 80 MHz, field strengths should be less than3 V/m.
Recommended separation distances between portable and mobile RF communications instrument and the instrument.
Field strengths from fixed transmitters, such as base stations for radio (cellular/cordless) telephones and land mobile radios, amateur radio, AM and FM radio broadcast and TV broadcast cannot be predicted theoretically with accuracy. To assess the electromagnetic environment due to fixed RF transmitters, an electromagnetic site survey should be considered. If the measured field strength in the location in which the instrument is used exceeds the applicable RF compliance level above, the instrument should be observed to verify normal operation. If abnormal performance is observed, additional measures may be necessary, such as re-orienting or relocating the instrument. b Over the frequency range 150 kHz to 80 MHz, field strengths should be less than3 V/m.

Contents

1. Precautions 1

2. Contraindications 2

3. Intended use 2

4. Product list 3

5. Components 4

6. Connection 7

7. Instruction 13

8. Maintenance 17

9. Troubleshooting 19

10. Cleaning, Disinfection and Sterilization 20

11. Technical Specifications 26

12. Operating environment ,Storage and Transportation conditions 27

13. Guarantee 28

14. Recycling and Disposal 29

15. Symbol Identification 29

16. EMC 30

1 Precautions

- ▷ The instrument must be used within the scope mentioned in the manual. If the user fails to operate according to the requirements of the manual or uses the instrument for other purposes, the manufacturer will not bear any responsibility.
- ▷ Do not damage, modify, pull, excessively bend or twist power cable.
- ▷ Only use original power cable, otherwise it may cause damage to the instrument.
- ▷ Do not use twisted or worn irrigation needle, and replace it in time.
- ▷ Avoid infiltration of detergent into the instrument to avoid short circuit and malfunction.
- ▷ When the instrument is abnormal, stops using the instrument immediately and contacts the manufacturer and authorized dealer for repair, users are not allowed to disassemble and repair.
- ▷ This instrument is not suitable for patients with cardiac pacemakers.
- ▷ Unstable voltage and electromagnetic field will interfere with the normal opera tion of the instrument.
- ▷ This instrument is only for professional dentists.
- ▷ Prevent liquids from entering control unit and handpiece.
- ▷ When irrigating root canal, use a rubber dam to prevent irrigating fluid from overflowing and burning patient’s mouth.

16 Electromagnetic Compatibility Precaution

Guidance and manufacture's declaration – electromagnetic immunity

The instrument is intended for use in the electromagnetic environment specified below. The customer or the user of instrument should assure that it is used in such an environment.

Immunity test	**IEC 60601 test level**	**Compliance level**	**Electromagnetic environment - guidance**
Conducted RF IEC61000-4-6 Radiated RF IEC 61000-4-3	3 Vrms 150 kHz to 80 MHz 6 Vrms in ISM and amateur radio bands 3 V/m, 10 V/m 80 MHz to 2.7 GHz 385MHz-5785MHz Test specifications for ENCLOSURE-PORT IMMUNITY to RF wireless communication instrument(Refer to table 9of IEC 60601-1-2:2014)	3 Vrms 150 kHz to 80 MHz 6 Vrms in ISM and amateur radio bands 3 V/m, 10 V/m 80 MHz to 2.7 GHz 385MHz-5785MHz Test specifications for ENCLOSURE-PORT IMMUNITY to RF wireless communication instrument(Refer to table 9 of IEC60601-1-2:2014)	Portable and mobile RF communications instrument should be used no closer to any part of the instrument, including cables, than the recommended separation distance calculated from the equation applicable to the frequency of the transmitter. Recommended separation distance d=[3,5/V1]×P1/2 d=1.2×P^(1/2) 80 MHz to 800 MHzd=1.2×P^(1/2) 800 MHz to 2,7 GHz Where the maximum is output power rating of the transmitter in watts (W) according to the transmitter manufacturer and d is the recommended separation distance in meters (m). Field strengths from fixed RF transmitters, as determined by an electromagnetic site survey〖 ,〗^ashould be less than the compliance level in each frequency range.^bInterference may occur in the vicinity of instrument marked with the following symbol:

16 Electromagnetic Compatibility Precaution

Voltage dips, short interruptions and voltage variations on power supply input lines IEC 61000-4-11	<5 % UT (>95% dip in UT.) for 0.5 cycle <5 % UT (>95% dip in UT) for 1 cycle 70% UT (30% dip in UT) for 25/30 cycles <5% UT (>95 % dip in UT) for 5/6 sec	<5 % UT (>95% dip in UT.) for 0.5 cycle <5 % UT (>95% dip in UT) for 1 cycle 70% UT (30% dip in UT) for 25/30 cycles <5% UT (>95 % dip in UT) for 5/6 sec	Mains power quality should be that of a typical commercial or hospital environment. If the user of the instrument requires continued operation during power mains interruptions, it is recommended that the instrument be powered from a unit eruptible power supply or a battery.
Power frequency (50/60 Hz) magnetic field IEC 61000-4-8	3A/m	3A/m	Power frequency magnetic fields should be at levels characteristic of a typical location in a typical commercial or hospital environment.
NOTE: U_T is the a.c. mains voltage prior to application of the test level.			

2 Contraindications

- ▷ Use with caution for pregnant women， children, and people who have had retina
- ▷ People who are allergic to sodium chlorate and other flushing fluids should not be used
- ▷ This instrument is not suitable for doctors or patients who have a pacemaker (or other electrical instrument) and are warned not to use small appliances (such as electric shavers, hair dryers, etc.), and hemophiliacs

3 Intended use

- ▷ After root canal dredge and preparation， use the instrument to rinse root canal with heated flushing fluid and can also suction waste fluid simultaneously.
- ▷ It is recommended to use sodium hypochlorite with a concentration not exceed ing 5.25%.
- ▷ The instrument must only used in dental clinics or hospitals by professional medical personnel.

4 Product List



④ Irrigation needle



② Power cord



③ Retainer ring



① Flushing fluid/water bottle



⑤ pipe



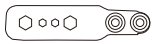
⑥ fuse



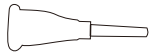
⑦ cleaning head



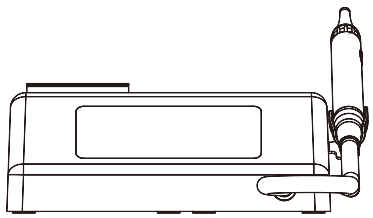
⑧ Sealing rubber pad



⑨ wrench



⑩ Bayonet needle



⑪ control unit

① Flushing fluid/water bottle
② Power cord
③ Retainer ring
④ Irrigation needle
⑤ pipe
⑥ fuse
⑦ cleaning head
⑧ Sealing rubber pad
⑨ wrench
⑩ Bayonet needle
⑪ control unit

⚠ CAUTION:

If the accessories are damaged, please purchase original accessories and replace and use them according to the instructions.

16 Electromagnetic Compatibility Precaution

Guidance and manufacture's declaration – electromagnetic immunity

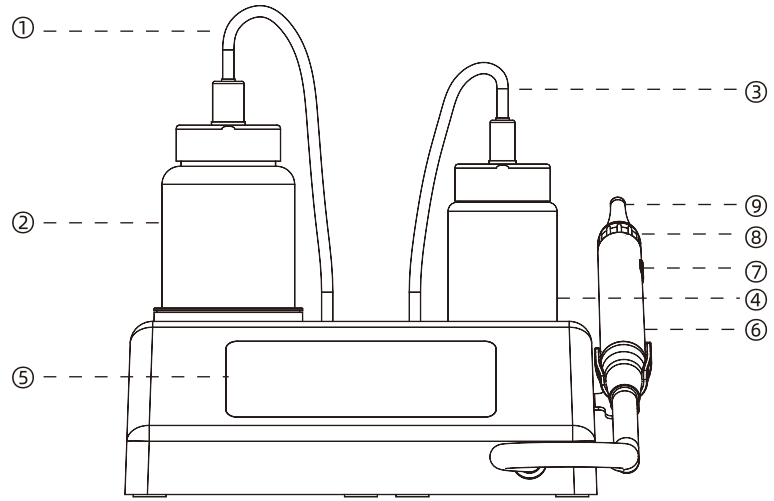
The instrument is intended for use in the electromagnetic environment specified below. The customer or the user of instrument should assure that it is used in such an environment.

Immunity test	**IEC 60601 test level**	**Compliance level**	**Electromagnetic environment - guidance**
Electrostatic discharge (ESD)IEC 61000-4-2	±8 kV contact ±2 kV, ±4 kV, ±8kV,±15 kV air	±8 kV contact ±2 kV, ±4 kV, ±8kV, ±15 kV air	floor are covered with synthetic material, the relative humidity should be at least 30%.
Electrical fast transient/burst IEC 61000-4-4	±2kV for power supply lines ±1 kV for Input/output lines	±2kV for power supply lines ±1 kV for Input/output lines	Mains power quality should be that of atypical commercial or hospital environment.
Surge IEC 61000-4-5	±0.5 kV, ±1 kV line to line ±0.5 kV, ±1 kV, ±2 kV line to ground	±0.5 kV, ±1 kV line to line	Mains power quality should be that of a typical commercial or hospital environment.

16 Electromagnetic Compatibility Precaution

Guidance and manufacture's declaration – electromagnetic emission		
The instrument is intended for use in the electromagnetic environment specified below. The customer or the user of the instrument should assure that it is used in such an environment.		
Emission test	**Compliance**	**Electromagnetic environment – guidance**
RF emissions CISPR 11	Group 1	The instrument use RF energy only for its internal function. Therefore, its RF emissions are very low and are not likely to cause any interference in nearby electronic instrument.
RF emission CISPR 11	Class B:	The instrument is suitable for use in all establishments, including domestic establishments directly connected to the public low-voltage power supply network with specific requirement.
Harmonic emissions IEC 61000-3-2	Class A	
Voltage fluctuations/flicker emissionsIEC 61000-3-3	Complies	

5 Components



Front

5.1 Connection

① Waste pipe

② Waste bottle

③ Flushing fluid pipe

④ Flushing fluid bottle

⑤ Control panel

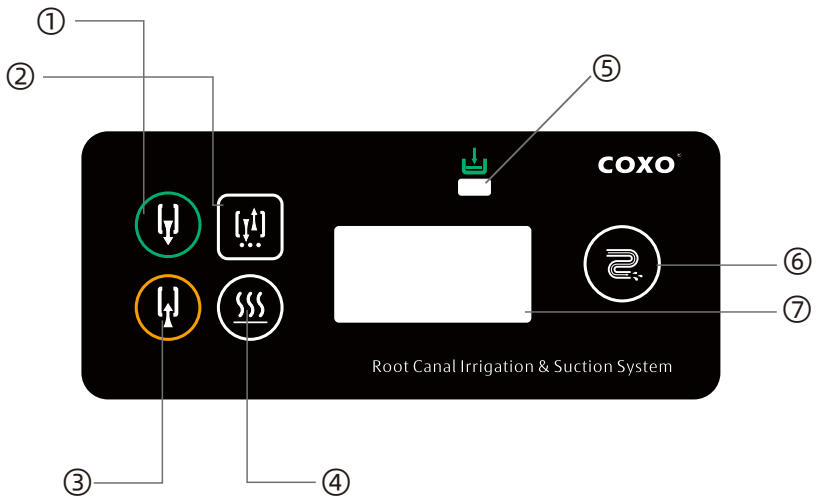
⑥ Handpiece

⑦ Start/Stop button: Short press button to start/stop working

⑧ Retainer ring: Lock Irrigation needle and cleaning head.

⑨ Irrigation needle: Not suitable for cleaning mode

5 Components



5.2 Control panel

① Irrigation button: Inject flushing fluid into root canal and rinse

② Multi-function mode button: Synchronous root canal irrigation and waste fluid suction

③ Suction button: Suction waste fluid out of root canalTimer button: Press to select work time of multi-function mode

④ Cheating mode: For flushing fluid heating

⑤ Flushing fluid indicator: The indicator will illuminate indicating flushing fluid is about to run out.

⑥ Clean and accelerate mode multiplex button: Cleaning mode: Clean pipeline and accelerate mode: long press cleaning mode to accelerate water flow

⑦ LCD display: Display working time

16 Electromagnetic Compatibility Precaution

▷ **This information is required by the 4th edition of IEC 60601-1-2.**

—— The instrument needs special precautions regarding EMC and needs to be installed and put into service according to the EMC information provided in this manual.

—— Portable and mobile RF communications instrument can affect the Unit.

—— The use of accessories, transducers and cables other than those specified by manufacturer, may result in increased emissions or decreased immunity of the instrument.

—— The instrument should not be used adjacent to or stacked with other instrument and that if adjacent or stacked use is necessary, the instrument should be observed to verify normal operation in the configuration in which it will be used.

—— Per IEC 60601-1-2, no additional environmental operating conditions are required for normal use

14 Recycling and Disposal

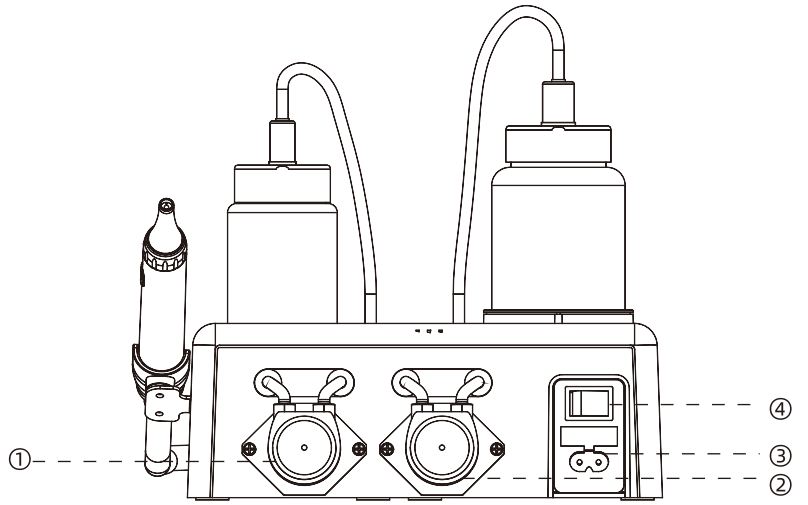


▷ Disposal of waste instrument must comply with national regulations and standards. Ensure that all components do not produce pollution during the disposal process.

15 Symbol Identification

	Warning/Caution		Note
	Manufacturer	EC REP	European Union agent
SN	Serial number		Alternating Current
	Type B applied part		Consult instruction for use
	Keep dry		Fragile, handle with care
	This way up		Class II instrument
	Direct current	134°C	Sterilizable in a steam sterilizer at 134℃
	Products comply with WEEE directive		

5 Components



5.3 Rear

① Waste pump

② Flushing fluid pump

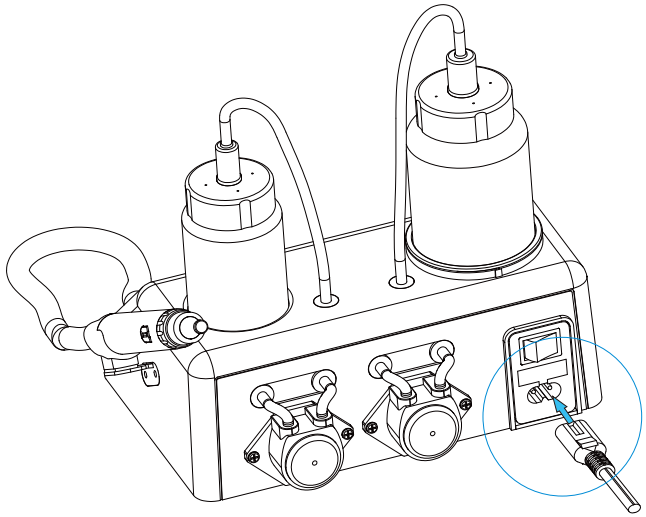
③ Supply socket

④ ON/OFF button: | ON, O OFF

Warning:

It is forbidden for non-professional maintenance personnel to disassemble the pump tube by them.

6 Connection



6.1 Power cord

Connect power supply and control unit via power cord as below:

⚠ CAUTION:

If power cord is damaged, please replace it in time

Please use power cord according to local regulations

13 Guarantee

- ▷ Control unit and handpiece are covered by 24 months warranty. The adapter is covered by 6 months warranty. The warranty commences on the date of purchase. Within the warranty period, Manufacturer will eliminate free of charge any defects in the appliance resulting from faults in material or workmanship either by repairing or exchanging parts or exchanging the whole instrument at Manufacturer's discretion .
- ▷ Not covered by this warranty: Damage arising from improper use (operation with incorrect current/ voltage, unsuitable power point, breakage, cleaning by other than the recommended methods), normal wear and defects which have a negligible effect on the value or operation of the appliance.
- ▷ This warranty becomes void if repairs are undertaken by unauthorized persons.
- ▷ The supplier can provide circuit diagrams, component lists, legends, calibration rules, or other materials necessary for repair by qualified technicians and repairable instrument parts designated by the manufacturer as required.

12 Operating environment ,Storage and Transportation conditions

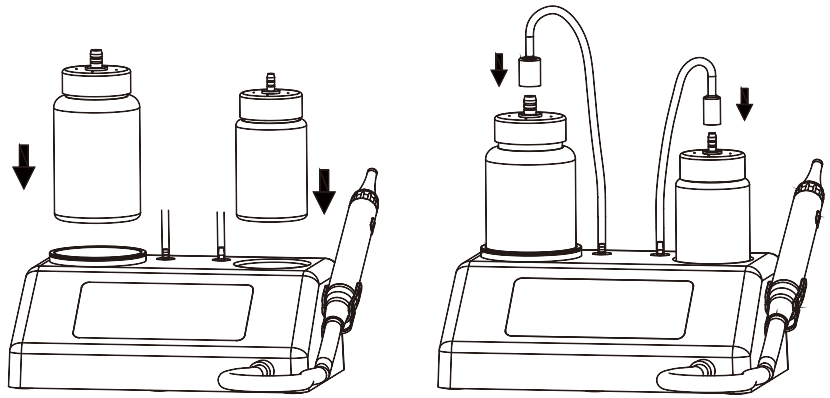
▷ Operating environment

Operating temperature	5℃— 40℃
Operating humidity	20%— 80%
Atmospheric pressure	86kPa — 106kPa

▷ Storage and Transportation conditions

Storage temperature	-10℃—55℃
Storage humidity	≤93%
Atmospheric pressure	50kPa — 106kPa

6 Connection



Installation of water inlet bottle and waste water bottle

6.2 Flushing fluid bottle、Waste bottle:

Put the bottle in control unit as below direction, and then connect corresponding pipe.

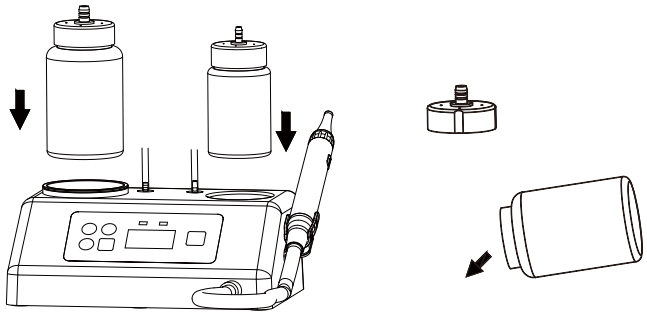
Note:

Before connecting flushing fluid bottle, add flushing liquid or water first, and be careful not to overfill it to avoid overflow when tighten the cap.

Warning:

IIt is recommended to use sodium hypochlorite with a concentration not exceeding 5.25%, sodium hypochlorite cannot be mixed with chlorhexidine or geramine, or use physiological saline or distilled water for thorough cleaning when they are used interchangeably.

6 Connection



Waste water bottle cleaning

6.3 Waste fluid pouring:

remove waste pipe, take off the waste bottle out of control unit and then unscrew cap to pour the waste fluid.

Warning:

Waste fluid treatment must comply with national regulations and standards.

11 Technical Specifications

Control unit's input	AC100-220V 50/60Hz
Input power	36W
Fuse Wire	F3AL250V
Operation mode	Non-continuous
Degree of Protection (IEC 60529)	IPX0
Protection against Electric Shock	Type B applied part
Classified of protection against Electric Shock	Class II
Applied part	Irrigation needle
Injection flow	2-5ml/min
Injection flow	Irrigation needle A: >10ml/min Irrigation needle B: >3ml/min
Recommended times for irrigation needles	50 times
Heating temperature	<60℃

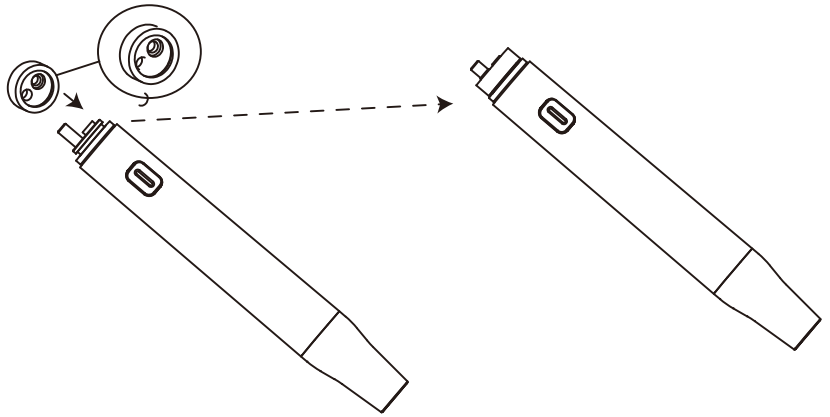
10 Cleaning, Disinfection and Sterilization

Sterilization:	Sterilization of instruments by applying a fractionated pre-vacuum steam sterilization process (according to EN 285 / EN 13060 / EN ISO 17665) under consideration of the respective country requirements. Minimal requirements: 3 min at 134 °C. In EU, 5 min at 134 °C is required. Maximal sterilization temperature: 137°C. Flash sterilization is not allowed on lumen instruments
Storage:	Storage:Storage of sterilized instruments in a dry, clean and dust free environment at modest temperatures refer to label and instructions for use.
Reprocessing validation study information	The above-mentioned reprocessing process (cleaning, disinfection sterilization) has been successfully validated.
It is the duty of the user to ensure that the reprocessing processes including resources, materials and personnel are capable to reach the required results. State of the art and often national law requiring these processes and included resources to be validated and maintained properly.	

6 Connection

6.4 Sealing rubber pad

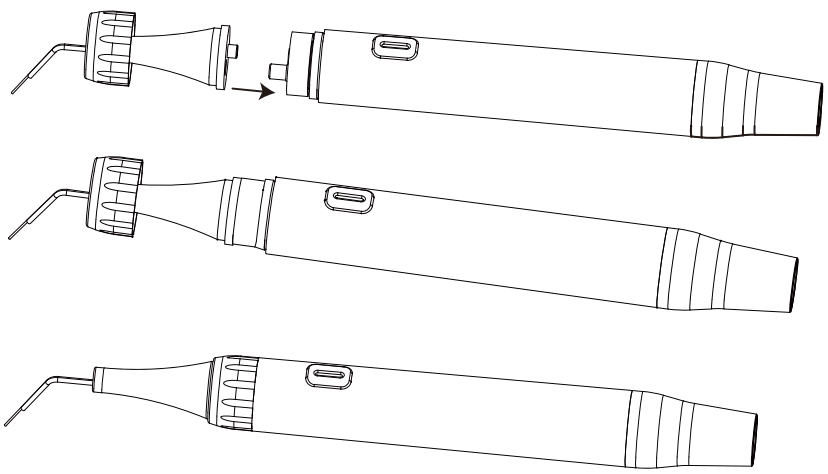
When the handpiece is idle, connect sealing rubber pad as below:



Sealing rubber pad

6 Connection

6.5 Irrigation needle:



Irrigation needle

▷ Remove the sealing rubber pad;

▷ Connect irrigation needle first, and then fix it with a retainer ring.

ⓘ Note:

Before connection, use a 3-way syringe to dry the needle tube.

After each use, clean it with water first, and then dry it

with s ways syringe.

10 Cleaning, Disinfection and Sterilization

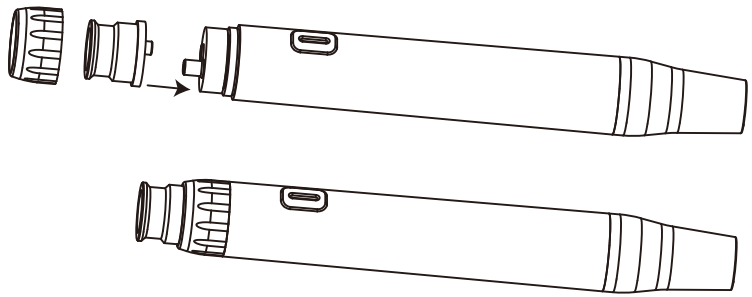
Disinfection:	Automated Disinfection: Automated Thermal Disinfection in washer/disinfector under consideration of national requirements in regards to A0-Value (see EN 15883). A disinfection cycle of 5 min disinfection at 93°C has been validated for the instrument to achieve an A0 value of 3000.
Drying:	Automated Drying: Drying of outside of instrument through drying cycle of washer/disinfector. If needed, additional manual drying can be performed through lint free towel. Insufflate cavities of instruments by using sterile compressed air.
Functional Testing, Maintenance:	Visual inspection for cleanliness of the instruments and reassembling. Functional testing according to instructions of use. If necessary, perform reprocessing process again until instrument is visibly clean. Defective accessories should be immediately discarded. The defects include: plastic deformation and corrosion Maintenance is not required. Instruments oil must not be used
Packaging:	Pack the instruments in an appropriate packaging material for sterilization. The packaging material and system refer to EN ISO 11607.

10 Cleaning, Disinfection and Sterilization

Cleaning:	Regarding cleaning/disinfection, rinsing and drying, it is to distinguish between manual and automated reprocessing methods. Preference is to be given to automated reprocessing methods, especially due to the better standardizing potential and industrial safety. Automated Cleaning: Use a washer-disinfector meeting the requirements of the ISO 15883 series. Put the instrument into the machine on a tray. Connect the instrument with the WD by using suitable adapter and start the program: —— 4 min pre-washing with cold water (<40°C) —— emptying —— 5 min washing with a mild alkaline cleaner at 55°C —— emptying —— 3 min neutralising with warm water (>40°C) —— emptying —— 5 min intermediate rinsing with warm water (>40°C) —— Emptying The automated cleaning processes have been validated by using0. 5% neodisher MediClean forte (Dr Weigert) Note Acc to en ISO 17664 no manual reprocessing methods are required for these devices. If a manual reprocessing method has to be used, please validate it prior to use

6 Connection

6.6 Cleaning head



▷ Remove the sealing rubber pad;

▷ As shown in the figure above, install them in the order of 1 to 2.

ⓘ Note:

The cleaning head only used for cleaning mode.

7 Instruction

7.1 Mode instruction

① **Irrigation:** Inject flushing fluid into root canal and rinse for 30S.

② **Suction mode:** Suction waste fluid out of root canal for 120S

③ **Multi-function mode:** Synchronous root canal irrigation and waste fluid suction for 30s or 60s 0r 90s or 120s

④ **Accelerate mode:** pipeline can be filled quickly, reducing the waiting time for flushing fluid outlet

⑤ **Cleaning mode:** Clean pipeline

7.2 Start working

⚠ Warning:

Carry out a trial run before use to check whether there are failures or blockages, otherwise flushing fluid may overflow during working and result in medical accidents.

7.2.1 Irrigation mode

——Irrigation needle connection refer to **"6.Connection"**

⚠ CAUTION:

The Irrigation needle must be put into root canal before use.

—— After apply power, select irrigation mode, short press start/stop button on handpiece to start working , and work until the countdown ends.

—— Press start/stop button angina to suspension of work.

10 Cleaning, Disinfection and Sterilization

Pre-Cleaning:	Following instruction is relevant for irrigation needle, retainer ring, cleaning head, sealing rubber pad. Not use automated cleaning, disinfection and sterilization for other parts than irrigation needle, retainer ring, cleaning head, sealing rubber pad in this system! Do a manual pre-cleaning, until the instruments are visually clean. Submerge the instruments in a cleaning solution and flush the lumens with a water jet pistol with cold tap water for at least 10 seconds. Clean the surface with a soft bristol brush.

10 Cleaning, Disinfection and Sterilization

Preparation for Decontamination:	The instruments must be reprocessed in a disassembled state. Irrigation needle, retainer ring, cleaning head, sealing rubber pad can be cleaned and disinfected with automated methods and sterilized with steam sterilization process. Do not sterilize control unit and handpiece. Control unit and handpiece cannot be cleaned and disinfected in a washer/disinfector. For these parts, only general wipe decontamination is possible!
Decontamination of other parts than irrigation needle, retainer ring, cleaning head, sealing rubber pad:	After operation, take out control unit and handpiece on the work bench Soak a soft cloth completely with distilled water or deionized water, Decontamination and wipe all the surfaces of these components, until the surface of the parts the components is visually clean For decontamination, soak a dry soft cloth with 75% alcohol Wipe all surfaces of control unit and handpiece with the wet soft cloth for about 3 minutes. Please follow the instructions of manufacturer of disinfectant swipe the surface of the component with a dry soft lint-free cloth

7 Instruction

Note:

During working, the button on control panel is unavailable.

During working, the flushing fluid will be heated and the temperature does not exceed 50°C.

7.2.2 Suction mode

—— Irrigation needle connection refer to **"6.Connection"**

CAUTION:

The Irrigation needle must be put into root canal before use.

—— Select suction mode,short press start/stop button on handpiece to start working,and work until the countdown ends.

—— Press start/stop button angina to suspension of work.

Note:

During working, the button on control panel is unavailable.

7.2.3 Multi-function mode:

—— Irrigation needle connection refer to **"6.Connection"**

CAUTION:

The irrigation needle must be put into root canal before use.

7 Instruction

7.2.4 Heating function

- Press heating button to enter heating mode;
- Only flushing fluid can be heated.

> **Note:**
>
> The function is available when the flushing fluid is exhausted

7.2.5 Accelerate mode

- Short press clean and accelerate mode multiplex button to enter accelerate mode, short pressstart/stop button on handpiece to accelerate
- When water flows out, press the button again to exit accelerate mode.
- Flushing fluid will not be heated the display shows" FFF" ,press the start/stop button to start,the display counts down,when it displays o,the work ends.

> **Warning:**
>
> Do not use this mode in the root canal; otherwise it may result in medical accident.

10 Cleaning, Disinfection and Sterilization

Instrument:	Control unit, handpiece, irrigation needle, retainer ring, Cleaning head, sealing rubber pad. The procedure for cleaning, disinfection and sterilization applies to irrigation needle, retainer ring, cleaning head, sealing rubber pad.
ADVICE:	Reprocessing procedures have only limited implications to a surgical instrument. The limitation of the numbers of reprocessing procedures is therefore determined by the function / wear of the instrument. There is no limit of maximum allowable reprocessing cycles. The instrument should no longer be reused in case of signs of material degradation. In case of damage the instrument should be
Reprocessing Instructions	
Preparation at the Point of Use:	Remove irrigation needle or cleaning head, retainer ring, sealing rubber pad form hand-piece. Remove gross soiling of the instrument with cold water (<40°C) immediately after use. Don't use a fixating detergent or hot water (>40°C) as this can cause the fixation of residu-als which may influence the result of the reprocessing process. Store the instruments in a humid surrounding.
Transportation:	Safe storage and transportation to the repro-cessing area to avoid any damage and contam-ination to the environment.

9 Troubleshooting

Malfunction	Cause	Remedy
Failure to turn power on	The power switch is not turned on	Turn the power on
	Poor power connection	Check the connection
	Power cable is damaged	Contact dealer
Rinse mode unavailable	flushing fluid is exhausted	Add flushing fluid
	Irrigation needle is blocked	Use a 3-way syringe to blow it or replace it

▷ The parts of the instrument should be repaired by designated professionals. If problem cannot be solved, please contact local dealer or our company.

7 Instruction

7.2.6 Cleaning mode

Note:

Prior to use, discard the waste fluid and replace flushing fluid with clean water

—— Cleaning head connection refer to **"6.Connection"**

—— Long press clean and accelerate mode multiplex button to enter cleaning mode, short press start/stop button to start working, and work until flushing fluid is used up.

—— During working, press start/stop button angina to suspension of work.

—— After cleaning, discard the waste liquid, and then soak the bottle caps, Irrigation needle, cleaning head, sealing rubber pad, and retainer ring with clean water, and then sterilization.

Note:

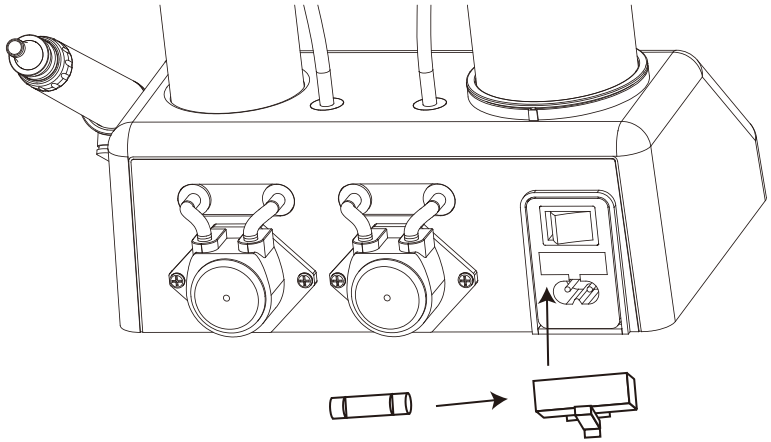
During working, the button on control panel is unavailable.

During working, the flushing fluid will be heated and the temperature does not exceed 60°C.

Do not soak these accessories with alcohol or other disinfectant.

8 Maintenance

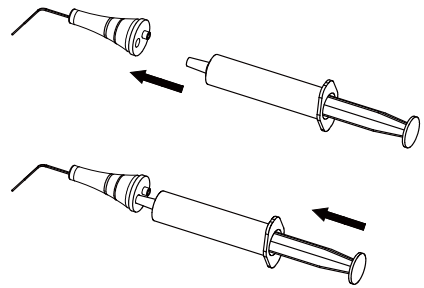
- ▷ Check whether irrigation needle, cleaning head, retainer ring and other parts are damaged before each use. If so, please stop using it immediately.
- ▷ Check whether the handpiece is damaged before each use. If so, stop using it immediately and contact our company or authorized dealers for help.
- ▷ For reasons of hygiene, irrigation needleand retainer ring must be cleaned and disinfected before or after use.
- ▷ Wipe instrument surface with clean water, do not soak.
- ▷ During cleaning process, keep the handpiece and control unit from liquid.
- ▷ Disconnect the power when cleaning charging base.
- ▷ If the control unit does not function, check the fuses (Fuse box lock located on the rear of the control unit): To access the Fuse, use a pointed tool push on the fuse locking latch and the drawer will spring open.



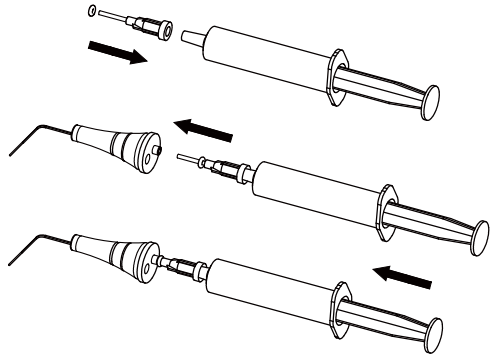
8 Maintenance

8.1 Solution of irrigation needle blockage:

▷ Insert injector without needle into the concave hole and push the injector to discharge obstruction



▷ First insert sealing rubber pad into the syringe , then connect the needle , finally push the syringe to discharge obstruction



Note:

It's better to discharge the obstruction as soon as possible.

Blocked flushing needles cannot be sterilized.