DENTAL UNIT CLESTAI OPERATING INSTRUCTIONS

IMPORTANT

- This manual provides operating instructions for the CLESTA-II.
- The instructions contained in this booklet should be thoroughly read and understood before operating the unit and chair.
- After the installation has been completed, keep this manual in a safe place and refer to it for future maintenance.
- If you have any questions about this Manual or this product, please contact us. If manual becomes unreadable or is lost, please request a new manual by contacting your dealer.
- Installation should be conducted by authorized personnel only. Follow instructions on installation manual.



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Intended Use of the Product

This product is an active therapeutic device intended for the exclusive use for diagnoses, treatments and relative procedures of dentistry.

The product must be operated or handled by the qualified dentists or by dental staffs under the supervision of the dentist.

Such dentists or dental staffs should instruct and/or assist the patients to approach to and leave from the product.

Patients should not be allowed to operate or handle the product unless he/she is so instructed. The product is supplied together with the handpieces like electric micromotor, air turbine and/or motor, scaler and so on.

Environmental Requirements

Ambient Temperature	Operating $+5^{\circ}$ C - $+40^{\circ}$ C	Storage	-10°C - +50°C
Humidity	10 % - 80%		
Atmospherical Pressure	600 hPa - 1060 hPa		

Important Notes

In case of the troubles, please contact Takara Belmont offices or your dealers.

Do not disassemble or attempt to repair.

Disassembly, repair or modifications shoud only be done by a qualified repair technician.

Attempts at disassembly, repair or modifications may lead to abnormal operation and accidents.

In case of disposal of equipment

In case of disposal of equipment or of components dismounted from the unit, take full infection preventing measures, and carry out appropriate steps in accordance with the legal regulations at that time.

SYMBOLS

In this manual, on the labels or on the control panel of CLESTA II, following symbols are used. Confirm the meaning of each symbol.

\sim	alternating current		Protective earth (ground)		ON (power)	\bigcirc	OFF (power)
LP <>>	Chair last position	0	Chair auto return	1 **,	Chair preset1	2 **,	Chair preset2
,	To raise the chair	,√→	To lower the chair	¥	To Recline the backrest	K_	To raise the backrest
LP	Chair last position	0	Chair auto return	1	Chair preset1	2	Chair preset2
•	Chair manual control	Ĺ	Chair auto control	ý	Chair manual control	\uparrow	To raise the chair
K	To Recline the backrest	\rightarrow	To lower the chair	K	To raise the backrest	1	Handpiece Setting
	Fiber optic handpiece light on//off		Handpiece coolant spray on/off	⊿₫₫	Rotation mode select	ଫର	Micro motor Forward/Reverse select
F	Function	€	Store	\mathbb{M}	Rotation speed contol		Scaler power control
₽ Ц	Syringe	$\langle \dot{\gamma} \rangle$	Bowl flush	Щ.	Cupfiller	<u> </u>	Dental light on/off
	Dental light mode selection	min.	Minus	sec.	Plus	\ / 7 F	Service outlet (water)
∐ אך	Service outlet water flow control	\\/ 7 F	Service outlet (air)	W	Water	A	Air
l	Water heater		Caution It means "caution, warnings, or possibility to danger". Refer to operating instructions	Ŕ	Type B Applied Parts		

1. OVERVIEW AND MAJOR COMPONENTS



Fig.1-1 Overview and Major Components

2. DIMENSIONS AND SPECIFICATIONS







Net Weight ------ Chair Mount Type 94.7 kg (Without Dental Light) ------ Pedestal Type 111.7 kg (Without Dental Light) Service Life ------ 10 years



3. OPERATING INSTRUCTIONS

3-1. DOCTOR TABLE SECTION



(5) Chair Manual Control Switches (Fig.3-7) **A E**

- a. Seat Lifting ----- Press the (() switch until the seat is lifted up to the desired position.
- b. Seat Lowering ------ Press the $(\bigcirc \bigcirc)$ switch until the seat is lowered to the desired position.
- c. Backrest Reclining ---- Press the $(\bigcirc \bigcirc)$ switch until the backrest

is reclined to the desired position.

d. Backrest Raising ----- Press the (() switch until the backrest is raised up to the desired position.





Ε

6 Chair Auto Mode Switches (Fig.3-8)

a. Preset Operation

Momentarily press the preset-1 switch (1),

the chair moves to the preset 1 position and stops automatically.

Preset 2 position operated by the preset switch (2).

Note : For preset position adjustment refer to chair Manual.

b. Auto Return Operation

Momentarily press the auto return switch (0), the chair returns to the initial position (the seat is the lowest position and the backrest is the upright position) and stops automatically.

c. Last Position Memory Operation

Momentarily press the last position memory switch ((LP)) at the treatment position, the backrest raises up to the rinsing position (upright position) and stops automatically.

Momentarily press the last position memory switch (() again, the backrest returns to the previous treatment position and stops automatically.

d. Emergency Stop (Safety Stop)

During automatic movements (preset, auto return and last position memory), by momentarily pressing any chair control switch this will cancel the automatic movement immediately.

(7) Safety Lock Indicator (Fig.3-9) A E

The safety lock indicator illuminates umber when the safety lock device is working.

Note : Please refer to page 13 4. Safety Lock Device.

(8) Coolant Water ON/OFF Switch (Fig.3-10)

When a handpiece is picked up and this switch is pressed, both LED A (air) and LED W (water) lights up, the coolant water and air comes out from the handpiece. In case of air motor or air turbine, switching between spray (both of LED A and LED W are lit) and OFF occurs when this switch is pressed. In case of electric scaler, switching between water only (LED W is lit) and OFF occurs when this switch is pressed, regardless of the mode. In case of micromotor, either the 2-mode or the 4-mode can be selected by mode select setup. When this switch is pressed in the 2-mode setup, switching between spray and OFF occurs. In case of 4-mode setup, switching occurs in the sequence indicated below each time when this switch is pressed: Spray to Water only to Air only to OFF.

As for the mode setting, Please refer to 3-1.(3) h.



Fig.3-10 Coolant Water ON/OFF Switch



0

Α

-P

,LED

Fig.3-9 Safety Lock Indicator

ГОСК о

-3-

(9) Electric Motor Speed Set Switch (Optional) (Fig.3-11)

Two different modes, limit mode and preset mode, are available as micromotor rotation speed modes. Pressing this switch each time changes the speed mode: Limit speed -> SET1 -> SET2 -> SET3 -> Limit speed. The indicator indicates the selected mode.

1) Switching to limit rotation speed (limit mode)

Pick up the micromotor from the holder, and press this switch (\bigcirc) to select limit mode. For selecting the upper limit in the limit mode, press either plus (\bigcirc) switch or minus (\bigcirc) switch. The upper limit of the micromotor rotation speed changes in three steps (or 5 steps).

E

- Upper limit of rotation speed in case of 3 steps: 10000/20000/40000 min⁻¹(rpm)

- Upper limit of rotation speed in case of 5 steps: 5000/10000/20000/30000/40000 min⁻¹(rpm) See item g. on page 7 for setting in 5 steps.

The micromotor rotation speed can be varied in the range of up to the selected upper limit by sliding the foot controller pedal right or left. The rotation speed range varies by the micromotor type.

2) Switching to preset rotation speed (preset mode)

Pick up the micromotor out of the holder, press this switch (), and then select preset mode (SET1 to 3). The rotation speed in this mode can be changed by pressing plus () switch or minus () switch. Press store switch () for storing the changed rotation speed.

When the foot controller is depressed upon selection of preset mode (SET1 to 3), the micromotor runs at the fixed rotation speed indicated on the indicator.

(1) Electric Motor Rotation Direction Control Switch (Optional) (Fig.3-12)

After picking up the electric motor from the holder, the electric motor rotation direction can be changed by momentarily pressing this switch () the rotation direction will be indicated

by the amber and green LEDs.

Indicator in green : Forward Rotation

Indicator in amber : Reverse Rotation

Note: Do not change the electric motor direction while the motor is running. When the electric motor with setting Reverse Rotation is returned

the holder and picked up again, a buzzer sounds.

(1) Dental Light ON/OFF Switch (Fig.3-13) E Switch for on/off the dental light.

(12) Function Switch (Fig.3-14)

Use this switch for setting various working conditions. As for the setup procedures, please refer to 3-1.(3) a-i.



Fig.3-12 Electric Motor Direction Control Switch

Fig.3-14 Function Switch



Fig.3-13 Dental Light ON/OFF Switch



Fig.3-11 Electric Motor Speed Set Switch

(3) Function Switch Setup Procedure

a. Timer

Timer can be set maximum 90 mins. 50 secs. in 10 secs. segment.

Decrease Switch



Start Switch (Electric Motor Speed Setting Switch)

2

LP Switch

1) To set a timer

Momentarily press the function switch, and set the time by pressing decrease switch and increase switch.

(+) ... Minimum setting time by switch is 10 seconds.

(-) ... Minimum setting time by switch is 1 minute.

The setting time is indicated on the function indicator.

Momentarily press the start switch to start timer. The end of setting time is informed by electronic sounds. Example: Setting time 3 minutes 30 seconds is indicated as 03:30 in the function indicator.

2) Preset time setting

F



Function Switch Decrease Switch Increase Switch Store Switch 0 Switch 1 Switch 2 Switch LP Switch

Four preset time can be set. (0) (1) (2) (LP)

Momentarily press function switch, and set the time by pressing decrease switch and increase switch. Press the store switch, then press the (0)(1)(2) or (LP) switch to store in memory.

3) Preset time operation



Press the function switch, then press the (0)(1)(2) or (LP) switch to choose desired preset number. Press start switch to start timer.

4) Cancel the timer during time countdown

. .

(**F**) Function Switch

Start Switch (Electric Motor Speed Setting Switch)

Momentarily press function switch, then press start switch to cancel timer.

b. Group Selection Mode

The group selection mode is a convenient function for the dental clinic where a multiple (up to four groups) of dentists work with one unit.

The following functions can be set for each group.

Preset position for chair.

Preset rotation speed for micro motor.

To set the group.

1) Momentarily press the function switch twice on main control panel, and the function indicator will indicate group number.

2) Momentarily press the 0,1, 2 or LP switch on main control panel to set one of 4 group.

0; Group1 / 1; Group2 / 2; Group3 / LP; Group4



c. Flush out system (Optional)

The CLESTA II is equipped with two types of flush out system.

Short time flush out is for cleaning handpiece water lines.

Long time flush out is for handpiece water lines, bowl flush water line and cupfiller water line.



Function Switch

(+)tch Decrease Switch Incr Increase Switch

1) Short time flush out

Momentarily press the function switch three times and momentarily press the decrease switch. Pick up the handpieces from the holder and set them in the cuspidor bowl. By momentarily pressing the foot controller this starts short time flush out. Water comes out from the handpiece and stops automatically after 40 seconds. During flush out, by momentarily pressing any one of unit control switch or foot controller will cancel flush out immediately.

2) Long time flush out

Momentarily press the function switch three times and momentarily press the increase switch. Pick up the handpieces from the holder and set them in the cuspidor bowl.

By momentarily pressing the foot controller this starts long time flush out for 5 minutes.

Then, cupfiller and bowl flush out starts and stops automatically in another 5 minutes.

During flush out, momentarily pressing the any one of unit control switch or foot controller will cancel flush out immediately.

d. Control panel switching sound on/off

Pressing a switch on the control panel makes an electronic sound. This sound can be eliminated as follows;

F

Function Switch



Increase Switch

Momentarily press the function switch four times and momentarily press the decrease switch. To return to original setting.

Momentarily press the function switch four times and momentarily press the increase switch.

e. Fiber optic handpiece lighting mode (Optional)

In case that fiber optic handpiece is installed, the fiber optic turns on when the handpiece is taken out of the holder, and turns off when the handpiece is returned to the holder.

This could be changed to fiber optic turns on when the handpiece is taken out of the holder and drive air pedal of foot control is activated.

F-Function SwitchDecrease SwitchIncrease Switch



Momentarily press the function switch five times and press the decrease switch. To return to original setting.

Momentarily press the function switch five times and press the increase switch.

f. Electronic sound for timer

Electronic sound for timer can be changed.

\frown	\frown
	(0)

Function Switch

$$(0) (1) (2) (LP)$$

Chair Auto Mode Switch

Momentarily press the function switch six times.

Momentarily press one of chair auto mode switch (0,1,2,LP) then the new electronic sound is to be memorized.

+

g. Micro motor maximum speed setting (Optional)

The maximum rotation speed of the micro motor can be selected in 3 steps (10000,20000,40000min⁻¹(rpm)). This function can be changed to 5 steps (5000,10000,20000,30000,40000min⁻¹(rpm)) as follows:



Momentarily press the function switch seven times and press the increase switch.

To return to original setting.

Momentarily press the function switch seven times and press the decrease switch.

h. Coolant Water ON/OFF Switch

In case of micromotor, either the 2-mode or the 4-mode can be selected by mode select setup.

When this switch is pressed in the 2-mode setup, switching between spray and OFF occurs.

In case of 4-mode setup, switching occurs in the sequence indicated below each time when this switch is pressed: Spray to Water only to Air only to OFF.

Decrease Switch Function Switch Increase Switch Coolant Water **ON/OFF** Switch To set 2 mode Momentarily press the function switch eight times and press the decrease switch. To set 4 mode Momentarily press the function switch eight times and press the increase switch. i. Cupfiller and bowl flush Cupfiller and bowl flush are set to operate together (when the cupfiller switch is activated, bowl flush also starts). To make these operate independently. Increase Switch Function Switch Decrease Switch

Momentarily press the function switch nine times and press the decrease switch. To return to original setting.

Momentarily press the function switch nine times and press the increase switch.

(4) Scaler for SATELEC SP4055 (Optional)

The setting range of ultrasonic scaler can be selected in 3 ranges (Scaling, prosthesis removal, amalgam, plugging / Ultrasonic endodontic treatment / Ultrasonic periodontal treatment). Pick up the handpiece of scaler and set the range by pressing increase switch or decrease switch.

(5) Doctor Table Section Control Knobs

 A. Handpiece Spray Water Control Knobs (Fig.3-15)
 The handpiece spray water control knobs are located under the doctor table.
 Each handpiece spray water control knob is marked

1-4 from the left side HP1,HP2,HP3,...

The handpiece spray water volume can be controlled independently.

*The HP4 is optional.

B. Doctor's Syringe Flow Control Knobs (Fig.3-15)
Doctor's syringe flow control knobs are located on the facing right side under the doctor table.
The flow control knobs adjust the doctor's syringe air and water flow volume.

The yellow capped knob is the air flow control knob, the blue capped knob is the water flow control knob.

Note : Turning the control knob counterclockwise will increase the flow volume and turning clockwise will decrease. (Fig.3-16)

(6) Handpiece Pressure Gauge (Fig.3-17)

Handpiece drive air pressure gauge is located on the rear side of the doctor table.

While a handpiece is working, the handpiece drive air pressure is indicated on the handpiece pressure gauge.



Fig.3-15 Doctor Table Section Control Knobs



Fig.3-16 Control Knob



Fig.3-17 Handpiece Pressure Gauge

(7) Balance Arm Air Brake (Fig.3-18)

Balance arm air brake button is located on the handle. When the master switch is ON, the balance arm is locked. Grasp the handle and press the air brake button to adjust the table height.

Release the air brake button at the desired table position, the balance arm is locked.

Note : Do not load over 1.5 kg on the table.

(8) Dental Size Film Viewer (Fig.3-19)Film viewer ON/OFF switch is located right side of the film viewer.Press the switch, the film viewer turns on.

Press again, the film viewer turns off.



Air Brake Button Fig.3-18 Balance Arm Air Brake



Fig.3-19 Dental Size Film Viewer

(9) Panorama Size Film Viewer (Optional)(Fig.3-20)Film viewer ON/OFF switch and film viewer dimmer

are located on the right side of the film viewer. Film viewer brightness can be adjusted by the film viewer intensity control wheel.



Fig.3-20 Panorama Size Film Viewer

Holder Support Arm / Handpiece Holder (Fig.3-21)

Do not adjust the holder support arm and handpiece holder. Because the angle adjustment of the holder is fixed at the point of installation, the holder support arm will be damaged in case it is moved too hard.





Handpieces

Refer to handpiece manufacturers operating instructions.

3-2. CUSPIDOR UNIT SECTION



Fig.3-22 Assistant Side Control Panel and Cuspidor Unit Control Panel

(1)Assistant Side Control Panel (Fig.3-22)

Cupfiller switch, bowl flush switch, dental light switch and chair auto mode switches are located on the assistant side control panel. Refer to 3-1.(2)(2), (3), (4), (6) & (11).

- (2) Cuspidor Unit Control Panel (Fig.3-22)
 - A. Dental Light Mode Selection Switch

IO 5000 / 900 Dental Light (Type 920)

Dental light can be operated (ON/OFF) either by the touchless switch located on the light head,

or by the manual switch on the cuspidor unit control panel.

To operate by the touchless switch ------Set the switch lever to Left side (SENSOR Side) To operate manually ------Set the switch lever to Right side (Manual Side) Set the switch lever to Centre for OFF.

B. Water Heater Switch (Fig.3-22)

Water heater switch is located on the cuspidor unit control panel. Turn on the water heater switch, and the cupfiller water will warm up.

C. Service Water Outlet (Fig.3-22)

The service water outlet provides a quick-connection for water.

D. Service Water Outlet Control Knob (Fig.3-22)

The water volume from the service water outlet can be adjusted by the service water outlet control knob. Turning the knob counterclockwise will increase the flow volume and turning clockwise will decrease.

E. Service Air Outlet (Optional)(Fig, 3-22)

Service air outlet provides a quick-connection for air.

- (3) Cuspidor Unit Body
 - A. Assistant's Syringe Flow Control Knobs (Fig.3-23) Assistant's syringe flow control knobs are located in the cuspidor unit body.

The yellow capped knob is to adjust the assistant's syringe air flow volume, and the blue capped knob is to adjust water flow volume.

B. Cupfiller Flow Control Knob (Fig.3-23)
Cupfiller flow volume can be controlled by the cupfiller flow control knob. (Pinch valve system)
Loosen the lock nut and adjust cupfiller water flow volume by turning the knob.
Tighten the lock nut after adjustment.

C. Bowl Flush Flow Control Knob (Fig.3-23)



Fig.3-23 Flow Control Knobs in Cuspidor Unit Body

Bowl flush flow volume can be controlled by the bowl flush flow control knob.(Pinch valve system) Loosen the lock nut and adjust bowl flush water flow volume by turning the knob. Tighten the lock nut after adjustment.

Note : Turning a knob counterclockwise increase flow volume and turning clockwise will decrease.

(4) Assistant Instrument Holder (Fig.3-24)

When picking up an instrument (Saliva ejector or Vacuum handpiece) from the assistant holder this starts the instrument working automatically. Returning the instrument to the holder stops automatically.

Saliva ejector handpiece and vacuum handpiece have stop valves to close and adjust suction power.

(5) Sensor Cupfiller (Optional) (Fig.3-2, Fig.3-3 & Fig.3-25)Place the cup (paper cup) on the cupfiller base, water comes out from the cupfiller nozzle, fills up the cup and stops automatically.When cupfiller starts, the bowl flush also starts, and

will run for about 6 sec. and it stops automatically. While filling the cup, by momentarily pressing the cupfiller switch ($\buildrel U$) this will cancel the cup filler water flow.

During bowl flush, momentarily press the bowl flush switch ($\varsigma \not \approx$) this will cancel the bowl flush water flow.

Open Close Vacuum Handpiece Saliva Ejector Handpiece

> Fig.3-24 Vacuum Handpiece and Saliva Ejector Handpiece





Note : Use only suitable disposable paper cup (dental paper cup).

Use only an empty cup, using a cup with some water left, can cause an over flow. The sensor cupfiller needs over 2 seconds interval between cup filling. (6) Cuspidor Bowl (Optional) (Fig.3-26)

The cuspidor bowl can be rotated either 90° to the inside and 90° to the outside.

Do not hold the cupfiller nozzle when rotating the cuspidor bowl; be sure to hold the bottom of the spittoon bowl. Rotating via the cupfiller nozzle may result in damage to the cupfiller nozzle.



Fig.3-26 Cuspidor Bowl Rotation



- Note: Support the arm with your hand until it is positioned at the desired height.
- (8) Dental Light (Fig.3-28)Please refer to operating instruction for dental light.



Fig.3-27 Height Adjustable Assistant Arm



Fig.3-28 Dental Light



Fig.3-29 Foot Control (Type A2)

3-3. FOOT CONTROL SECTION

- (1) Foot Control (Type A2) (Fig.3-29)
 - A. Drive Air Pedal

Pick up a handpiece from the handpiece holder and depress the drive air pedal, the handpiece starts running.

B. Coolant Water Switch

Coolant water switch allows handpiece coolant water to be turned on or off.

C. Chip Blower Pedal

By depressing the chip blower button, the chip air will come out from handpiece without the bur rotating.

(2) Electric Motor Foot Control (Type SE)

(Fig.3-30)

A. Drive Air Pedal

Pick up a handpiece from the handpiece holder and depress the drive air pedal, the handpiece starts running.

B. Coolant Water Switch

Momentarily depressing the coolant water switch is changed handpiece coolant water and air situation.

The situation is shown on the main control panel.

Refer to page 3 (8) Coolant Water ON/OFF Switch.

C. Chip Blower Button

By depressing the chip blower button, the chip air will come out from handpiece without the bur rotating.



(Type SE)

D. Electric Motor Rotation Control (Optional)

Pick up the electric motor from the handpiece holder and while pressing down slide drive air pedal horizontally to right, and the electric motor will start running. The rotation speed increases by sliding the drive air pedal further to the right.

The speed control by the foot control is within the limits of the electric motor speed setting.

E. Coolant Water Switch / Electric Motor Rotation Direction Switch (Optional)

The coolant water switch can be changed for electric motor rotation direction switch.

To change to electric motor rotation direction switch.

Keep depressing the coolant water switch until buzzer sound (about 2 sec.).

To return to original (coolant water switch) setting.

Keep depressing the coolant water switch until buzzer sound (about 2 sec.).

The electric motor rotation direction is indicated on the control panel by LED.

Please see page 4 (10) Electric Motor Rotation Direction Control Switch.

4. SAFETY LOCK DEVICE

In the following cases the safety lock device to lock the chair movement is activated.

- 1. When the pedal of the foot controller is depressed.
- 2. When any switch on the doctor control panel or the assistant control panel is depressed while the chair is moving.
- 3. During setting with the function switch on the doctor control panel.
- 4. When the cuspidor bowl is rotated toward the patient side.

Note: Please refer to page 3 (7) (Fig3-9).

5. CARE AND MAINTENANCE

Turn OFF the master switch after daily operation and for long term intervals.

Cleaning Unit

All surfaces can be cleaned with DURR FD333 cleaner. Spray the cleaner (DURR FD333) on cloth and wipe the surfaces with the cloth. Do not drench the chair and unit. Wipe all surfaces dry after cleaning.

(1) Cuspidor Bowl (Fig.5-1)

Take out the drain cap and the basket strainer located in the center of cuspidor bowl and clean them. Remove the cupfiller base and pull out the cuspidor bowl and clean it.

After cleaning, secure the cuspidor bowl firmly.

Turn off the main switch before removing the cuspidor bowl.

(2) Solid Collector (Fig.5-2)

Pull out the solid collector filter and clean it. After cleaning, refit the solid collector firmly.



Fig.5-1 Cuspidor Bowl, Drain Cap and Basket Strainer



Fig.5-2 Solid Collector Filter

(3) Handpiece

1-1. Vacuum Handpiece and Saliva Ejector Handpiece Disassembly (Fig.5-3)

The vacuum handpiece and saliva ejector handpiece can be disassembled.

Pull the hose connector to disconnect the vacuum hose.



Fig.5-3 Vacuum Handpiece and Saliva Ejector Handpiece

Cleaning (Fig.5-4)

Wipe off contamination from the valve and cap with FD333. Scrape away contamination from the slide groove of the vacuum handpiece body with a tooth brush and wipe it with FD333. Apply Vaseline to the slide groove of the vacuum handpiece body after cleaning.

* The saliva ejector body may also be disassembled and cleaned in the same manner as shown above.

Washing

Remove contamination by distilled water or clean water before sterilization.

If you use cleaning solution before sterilization, use FD333. After cleaning is finished, wash away cleaning solution by distilled water or by clean water.

Sterilization (Fig.5-5)

Vacuum Tip/Saliva Ejector Tip/Vacuum Cap/Vacuum Handpiece Body/Saliva Ejector Handpiece Body can be autoclave.

Vacuum handpiece body and saliva ejector body have to assemble before autoclave.

A. Insert the handpiece in a sterilization pouch and seal it.

B. Autoclave for 20 min. at 121°C

- The slide knob can be autoclave 100 times and is expendable supplies.
- Skip the drying process if the temperature is to exceed 135°C.
- If damage occurs to the sterilization pouch, discard and sterilize again using a new pouch.

Storage

After cleaning the vacuum tip and saliva ejector tip, keep it in the clean place.

1-2. Cleaning vacuum and saliva ejector lines (Fig.5-6)

The sucking unit comes into contact with secretions, spit and blood that contain bacteria every day. Be sure to clean and sterilize it at the end of each work day.

Recommended cleaner : Orotol Plus made by DURR.

Do not use strongly acidic cleaning agents or alkaline pipe cleaning agents, which may cause corrosion of metals, etc/

1-3. Vacuum hose and saliva ejector hose are detachable from the cuspidor unit.(Fig.5-7)

Turn the hose connector 90° counterclockwise the hose can be removed from the cuspidor unit.

Insert the hose connector and turn through 90° clockwise to reconnect.

Note: After daily operation, run two cup of clean water through handpieces to clean inside.



Fig.5-4 Cleaning of Vacuum Handpiece Body and Saliva Ejector Handpiece Body



Sterilization pouch

Fig.5-5 Vacuum Handpiece and Saliva Ejector Handpiece



Fig.5-6 Cleaning Vacuum /Saliva Ejector Lines



Fig.5-7 Vacuum and Saliva Ejector Hose

2. Micro Motor / Turbine / Scaler

Sterilize the handpiece according to manufacturer's operating manual.

3. Belmont 77 Syringe (Fig.5-8)

Disassembly

Remove the nozzle from syringe by turning it in direction A.

Washing

Remove contamination by distilled water or clean water

before sterilization.

Sterilization

The nozzle can be sterilized with autoclave.

A. Insert the handpiece in a sterilization pouch and seal it. B. Autoclave for 20 min. at 121°C

Apply Vaseline thinly and evenly to the two O-rings after sterilization. Tighten the nut firmly in direction B to undo the nozzle.

- Skip the drying process if the temperature is to exceed 135°C.
- If damage occurs to the sterilization pouch, discard and sterilize again using a new pouch.
- Before use, make sure that the nut is firmly tightened.

Storage

After cleaning the nozzle, keep it in the clean place.

(4) Tubings and hoses

Tubings and hoses can be cleaned with DURR FD333 cleaner.

(5) Air Filter Drain Valve (Fig.5-9)

Air filter drain valve is located under the maintenance lid. Once a week open the drain valve and drain off water from the air line.

(6) Main Water Valve (Optional)(Fig.5-9)

Main water valve is located under the maintenance lid. Turn off the main water valve after daily operation and for long term intervals.

(7) Filter Replacement (Fig.5-10)

The water filter in the junction box needs to be replaced at least once a year.

The air filter in the junction box needs to be replaced at least once every three years.

Contact your local service representative for replacement.



Fig.5-9 Air Filter Drain Valve and Main Water Valve



Fig.5-10 Filter







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