



EVOGUE UNIT
INSTRUCTIONS FOR USE

Dear Customers

Thank you for purchasing our product.

This booklet explains how to use Evogue Unit.

Before using Evogue Unit, carefully read the operating instructions and make sure to use the product correctly.

Using the product without reading these instructions may lead to an accident.

For easy access to the information contained herein, keep this booklet at hand and review it as needed.

Ask your local authorized Belmont dealer to install this product by following the installation instructions contained in the product.

If you have any questions regarding the operating instructions or this product, contact your local authorized Belmont dealer.

If you find any dirt on or damage to the booklet and need a new booklet, report the catalog number indicated below to your local authorized Belmont dealer to order a new one.

This document describes the full version of the system. It may therefore cover components that are not included in the system you purchased.

2025-07 (19th edition)	
REF	1E04S2UE

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Indications for Use

Evogue Unit series are intended for the Dentists, Hygienists, and Dental assistants for traditional and normal patient treatment procedures in the dental operator.

Environmental Requirement

For Operation :

Ambient Temperature 32°F~104°F (0°C ~ 40°C)

Humidity 10% ~ 95% (No condensation)

Atmospheric Pressure 10.2 psi ~ 15.4 psi (700 hPa ~ 1060 hPa)

For Transportation / Storage :

Ambient Temperature -4°F ~ 158°F (-20°C~ 70°C)

Humidity 10% ~ 95% (No condensation)

Atmospheric Pressure 10.2 psi ~ 15.4 psi (700 hPa ~ 1060 hPa)

Equipment that is not suitable for use in air, flammable anesthetic gas, oxygen or nitrous oxide.

Compatibility of Handpieces

This unit should be combined with the handpieces described in the list of compatible handpieces (page 84).

Compatibility of Chair

This unit should be combined with the chair described in the list of compatible chairs (page 84).

Compatibility of Dental Light

This unit should be combined with the dental light described in the list of compatible dental lights (page 84).

Compatibility of Cabinet

This unit should be combined with the cabinet described in the list of compatible cabinets (page 84).

Important Notes

- If there are any product related questions or concerns, please contact your authorized Belmont dealer.
- Do not disassemble or attempt to repair.
- Installation and repair should be conducted by an authorized dealer service technician.
- No modification is allowed except handpiece installation by an authorized dealer technician.
- Attempts at disassembly, repair or modifications may lead to abnormal operation and accidents.

In case of disposal of equipment

When disposing of product or product components from the unit, take full infection preventing measures, and carry out appropriate steps in accordance with the legal regulations at that time.

Disposal of residue material

Please request a special contractor when you dispose amalgam.

SYMBOLS

In this manual, on the labels, on the Chair Seat Positioning Touchpad of Evogue Unit, following symbols are used. Confirm the meaning of each symbol.

Symbol	Meaning or explanatory text	Designation number	Title	Title of the symbol	Reference number
	Protective earthing (ground)	IEC 60601-1	Medical electrical equipment— Part 1: General requirements for basic safety and essential performance	Protective earth (ground)	Table D.1 No.6
	Alternating current	IEC 60601-1	Medical electrical equipment— Part 1: General requirements for basic safety and essential performance	Alternating current	Table D.1 No.1
	ON (power)	IEC 60601-1	Medical electrical equipment— Part 1: General requirements for basic safety and essential performance	"ON" (power)	Table D.1 No.12
	OFF (power)	IEC 60601-1	Medical electrical equipment— Part 1: General requirements for basic safety and essential performance	"OFF" (power)	Table D.1 No.13
	To raise the chair	ISO 9687	Dentistry — Graphical symbols for dental equipment	Patient chair, up	No.48
	To lower the chair	-	-	-	-
	To recline the backrest	-	-	-	-
	To raise the backrest	-	-	-	-
	Follow instructions for use *The color of black part is blue in the actual label.	IEC 60601-1	Medical electrical equipment— Part 1: General requirements for basic safety and essential performance	Refer to instruction manual/booklet	Table D.2 No.10
	Assistant's Syringe Flow Control Knobs (water & air)	-	-	-	-

Symbol	Meaning or explanatory text	Designation number	Title	Title of the symbol	Reference number
0	Chair auto return	-	-	-	-
1	Chair preset 1	-	-	-	-
2	Chair preset 2	-	-	-	-
3	Chair preset 3	-	-	-	-
	Chair manual control	ISO 9687	Dentistry — Graphical symbols for dental equipment	Dental patient chair, general	No.1
	Bowl flush	ISO 9687	Dentistry — Graphical symbols for dental equipment	bowl flush	No.42
	Air Coolant	ISO 9687	Dentistry — Graphical symbols for dental equipment	Air-cooling	No.45
	Water Coolant	ISO 9687	Dentistry — Graphical symbols for dental equipment	Water-cooling	No.43
	Cupfiller	-	-	-	-
	Service outlet (water)	-	-	-	-

Symbol	Meaning or explanatory text	Designation number	Title	Title of the symbol	Reference number
	Service outlet (air)	-	-	-	-
	Scaler power control	ISO 9687	Dentistry — Graphical symbols for dental equipment	Ultrasonic scaler	No.19
	Handpiece Flush Out	-	-	-	-
	Water/air flow control of syringe spray	-	-	-	-
	MASTER SWITCH	-	-	-	-
	Type B Applied Parts	IEC 60601-1	Medical electrical equipment — Part 1: General requirements for basic safety and essential performance	TYPE B APPLIED PART	Table D.1 No.19
	Caution *The base color is yellow.	IEC 60601-1	Medical electrical equipment — Part 1: General requirements for basic safety and essential performance	Caution	Table D.1 No.10
	General warning sign *The base color is yellow.	IEC 60601-1	Medical electrical equipment — Part 1: General requirements for basic safety and essential performance	General warning sign	Table D.2 No.2
	Rx only symbol (21 CFR 801.109)	-	-	-	-
	Manufacturer	ISO 15223-1	Medical devices — Symbols to be used with information to be supplied by the manufacturer - Part 1 : General requirements	Manufacturer	5.1.1

Symbol	Meaning or explanatory text	Designation number	Title	Title of the symbol	Reference number
	Date of manufacture	ISO 15223-1	Medical devices — Symbols to be used with information to be supplied by the manufacturer - Part 1 : General requirements	Date of manufacture	5.1.3
	(ISO 7010-P018) Sitting Prohibited	IEC 60601-1	Medical electrical equipment — Part 1: General requirements for basic safety and essential performance	No sitting	Table D.2 No.6
	(ISO 7010-P019) Stepping Prohibited	IEC 60601-1	Medical electrical equipment — Part 1: General requirements for basic safety and essential performance	No stepping on surface	Table D.2 No.7
	Unique device identifier	ISO 15223-1	Medical devices — Symbols to be used with information to be supplied by the manufacturer - Part 1 : General requirements	Unique Device Identifier	5.7.10
	ETL	-	-	-	-
	Waterproof level	IEC 60601-1	Medical devices — Symbols to be used with information to be supplied by the manufacturer - Part 1 : General requirements	Protection against harmful ingress of water or particulate matter	Table D.3 No.2
	Serial number	ISO 15223-1	Medical devices — Symbols to be used with information to be supplied by the manufacturer - Part 1 : General requirements	Serial number	5.1.7
	Catalog number	ISO 15223-1	Medical devices — Symbols to be used with information to be supplied by the manufacturer - Part 1 : General requirements	Catalogue number	5.1.6

SAFETY PRECAUTIONS

- Before use, read the “Safety precautions” carefully to ensure proper use.
- The following information is designed to ensure safe use of this product and to prevent injury and damage to you and others. The precautions contained here are classified depending on the severity and degree of imminence of possible injury or damage resulting from improper use. Be sure to follow all the information which is important for safety.

Classification of precautions	Severity and degree of imminence of possible injury or damage
 WARNING	This symbol indicates that “ignorance of these precautions may lead to severe injury or even death as a result of improper use.”
 CAUTION	This symbol indicates that “ignorance of these precautions may lead to mild or moderate physical injury or damage to property as a result of improper use.”
NOTICE	This symbol indicates that “it is recommended to follow these precautions for safety.”

WARNING

1. Be sure to turn off breakers for equipment in the clinic when this product will not be used for a long period of time.

Be sure to turn off breakers for equipment in the clinic when this product will not be used for a long period of time (following the completion of work, during the suspension of business, etc.). Insulation degradation may cause electrical fire.

2. Be sure to turn off the main switch upon completion of work or during work breaks

Be sure to turn off the main switch upon completion of work or during work breaks. This prevents incorrect operation due to accidental contact and associated hazards.

3. Never disassemble, repair or modify this product

Individuals other than certified repair technicians should not disassemble or attempt to repair and modify this product. This could lead to an accident, failure, electric shock or fire.

4. Be sure to establish a grounding connection

Be sure to establish a proper grounding connection. (Refer to a vendor for grounding connection.) Failure or electric leakage may lead to electric shock.

5. Use with caution in the presence of electromagnetic interference waves

Do not place this product around equipment generating electromagnetic waves (including communications equipment, elevators, etc.) as incorrect operation of this product may occur in the presence of electromagnetic interference waves. elevators, etc.) as incorrect operation of this product may occur in the presence of electromagnetic interference waves.

6. Do not place an undue load on the arm

Do not get on or place an undue load on the arm of this unit or dental chair armrest. This could cause the unit to topple or other accidents.

7. Immediately wipe off any water spills or leakage on the floor

Immediately wipe off any water spills or leakage on the floor. Decreased strength of the floor may lead to physical injury including fall, or property damage.

8. Be sure to turn off the main switch when electrocautery is in use

Be sure to turn off the main switch when electrocautery is in use, because noise may cause incorrect operation of this product.

SAFETY PRECAUTIONS



WARNING

9. Use with caution on patients with a cardiac pacemaker

Use this product with extreme caution on patients with a cardiac pacemaker. In the case of any abnormalities in patients during use, immediately turn off this product and discontinue use.

10. Do not place objects weighing 4.40lbs or more on the Doctor's table

Do not place objects weighing 4.40 pounds or more on the Doctor's table. This could cause damage to the Doctor's table, defective function or accidents.

11. When water leaking from the unit

In the case of water leaking from the unit, discontinue use, turn off the water shut-off valve in the junction box, master ON/Off switch on the delivery unit, main switch, breaker and contact the dealer or our company.

12. Ensure the maintenance of this product

Failure to maintain this product may lead to physical injury or property damage. Refer to the section of Maintenance and Inspection.

13. Use the turbine with a water check valve

Use the turbine with a water check valve. Contact the dealer or our company when a turbine without a water check valve will be used.

14. California Proposition 65

Cancer and Reproductive Harm - www.P65Warnings.ca.gov.

15. Prohibition of using this equipment adjacent to or stacked with other electronic equipment

Use of this equipment adjacent to or stacked with other equipment should be avoided because it could result in improper operation. If such use is necessary, this equipment and the other equipment should be observed to verify that they are operating normally.

16. Prohibition of placing portable RF communications equipment adjacent to this product

Portable RF communications equipment (including peripherals such as antenna cables and external antennas) should be used no closer than 12 inches (30 cm) to any part of this product, including cables specified by the manufacturer. Otherwise, degradation of the performance of this equipment could result.

17. Development of subcutaneous emphysema

Cooling air (alone or spray) is released from the chip of the handpiece (micromotor and air turbine/motor)/the nozzle chip of the syringe. This may cause the patient to develop subcutaneous emphysema, so use cooling air with caution.

SAFETY PRECAUTIONS



1. Only experienced personnel should use this product

Only dentists or other dental professionals should use this product.

2. Confirm safety before use

Before use, confirm that the parts are correctly and safely operating and that there are no obstacles around this product.

3. Pay attention to the patient during operation

Confirm that the patient is surely seated in the proper position.

Keep your eyes on patients (especially, children) so that mischief or inadvertent operation of equipment will not lead to unexpected accidents.

4. Pay attention during automatic operation of the chair

Pay attention to surroundings during automatic operation of the chair. Damage to the backrest, stool, Doctor's table may occur.

5. Pay attention during movement of the Doctor's table

Pay attention to surroundings when you move the Doctor's table. Injury by the tips of handpieces etc. may occur. Be sure to move the Doctor's table by holding the handle of the unit.

6. Pay attention during headrest operation

Do not allow hands, fingers or hair to become entangled in the moving parts of the headrest during operation.

7. Pay attention when you move a stool

Pay attention to surroundings when you move a stool so as not to hit the Doctor's table or Foot controller. This could cause malfunction or damage to the unit.

8. Discontinue use if you feel that "something is wrong"

Always be careful to inspect this product for looseness, rattling, tilting, wobbling, sounds, temperature, odors, etc. Immediately discontinue use at the first feeling that "something is wrong."

9. Do not smack or rub this product

Do not smack or rub this product forcefully. This could cause damage to covers or defective function.

10. Practice of flush out

Practice the flush out of water retained in the unit before the start of clinical practice at the beginning of each work day to maintain the quality of water for dental treatment and ensure a steady supply of water to handpieces. Refer to the procedure for flush out.

11. Do not place anything hot on the Doctor's table

Do not place anything hot on the Doctor's table. This could cause deformation or discoloration of the product.

12. Put a cover on the scaler tip

After use, be sure to put the dedicated tip cover (if a cover comes with the unit) on the scaler in the holder. If the cover is not used, injury from the scaler tip may occur.

13. Turn off the main switch upon completion of work

Be sure to turn off the main switch at the end of each work day to prevent incorrect operation due to accidental contact, water leakage and electric accidents.

SAFETY PRECAUTIONS



14. Set the air pressure for the water tank at 29 psi or less

Adjust the air supply pressure for the water tank to 29 psi or less. An excessively high pressure may cause damage to the water tank and result in injury.

15. Read the documents accompanying the various pieces of equipment

Before use, be sure to carefully read the package inserts and Instruction Manuals accompanying the various pieces of equipment (including optional articles) to ensure proper use.

16. Be sure to operate switches with your hands

Be sure to operate switches with your hands, except the foot controller, which is operated with your foot. Operation with body parts other than hands may cause damage or incorrect operation.

17. Wash the filter in the solid collector with running water

Detach and wash the filter in the solid collector with running water. The filter may break if washed with a brush.

18. Immediately wipe off drug solution when it comes into contact with this unit

Should drug solutions or water come into contact with this unit, wipe it off immediately with a dry soft towel, etc. to prevent product damage and prevent physical injury.

19. When you are working with a handpiece, do not pick up another handpiece

When you are working with a handpiece, do not pick up another handpiece. Another handpiece may rotate and cause an injury. Do not pick up two handpieces at the same time.

20. Observe the hose

Do not step on the hose (foot controller hose, vacuum hose, saliva ejector hose and handpiece hose). Failure to heed this warning may result in damage to the hose and physical injury, as well as people tripping over.

21. Do not use the handpiece with its hose twisted

Repeated actions of picking up and returning the handpiece may cause its hose twisted. Check the hose periodically to see if it is not twisted. If twisted, unwind it before use. Continual use of the handpiece with its hose twisted will cause the kinks in the hose or breaking of the wire, making the handpiece unusable.

22. Do not use water other than purified water, distilled water or pure water for the water tank

The water tank is intended only for use with purified water, distilled water and pure water. Do not use mouthwash or electrolyzed water, such as ConCool or povidone iodine, as they may cause clogged tubing or affect internal valves and equipment.

23. Precautions for right/left handed conversion

Make sure read through page 59 for instructions before perform with right and left handed conversion. This could cause physical injury or property damage.

24. Precautions for wipe-off the surface of Dr. Table or Assistant Holder

Do not spray liquids directly onto the surface of the table or holder sections.

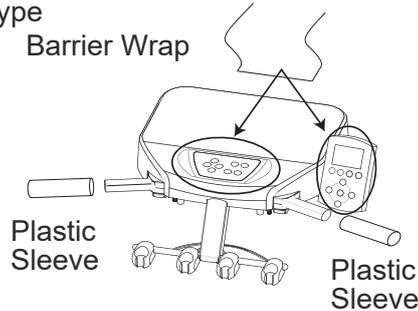
SAFETY PRECAUTIONS

CAUTION

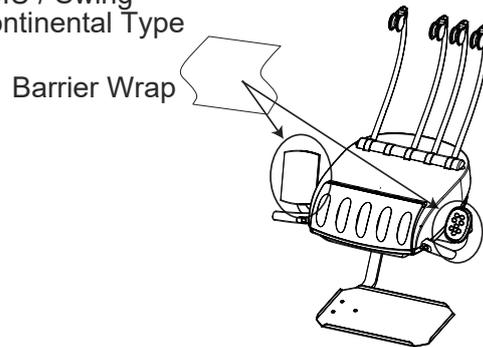
25. CAUTION If you use barriers, always replace the barrier film after each patient

We recommend barrier protection for all applicable touch and transfer surfaces. Touch surfaces are areas that come into contact with hands and become potential cross contamination points during dental procedures. CAUTION If you use barriers, always replace the barrier film after each patient.

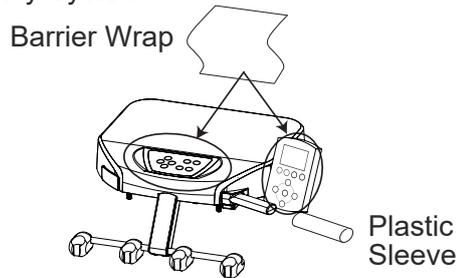
PMU / Swing Mount System / Cart Type
Holder Type



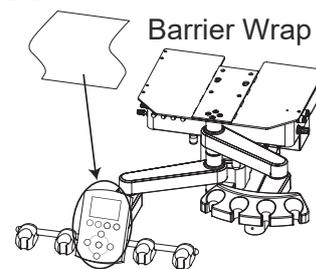
PMU / Swing
Continental Type



Side Delivery System



Rear Delivery System



NOTICE

1. Check operation of the compressor

With no air supplied, this product does not operate even after turning on the main switch. Turn on the power of the compressor before operating this product.

2. Handling of equipment in the case of a power failure

Put the handpiece in the holder and turn off the main switch if equipment stops working during use due to a power failure or other reasons.

3. Precautions for the water incoming to the unit

Tap water shall be provided to the main water line in the junction box. Other type of water such as water through a sterilizer of water system etc. may cause malfunction of the unit which is out of warranty.

4. Be careful not to drop the handpiece

Be careful not to drop the handpiece otherwise it may be broken or deformed.

5. Troubleshooting and contact information

In the case of any problems, discontinue use, turn off the main switch and contact the dealer or our company. During the repair work, the power plug should be disconnected. Do not place any objects around the junction box to prevent interference to the operation.

6. Be careful to connect the insert to the water coupler

Please be careful when connecting the insert PARTS WAREHOUSE P-1070-AS to the water coupler. Water comes out at the exact moment of inserting.

SAFETY PRECAUTIONS

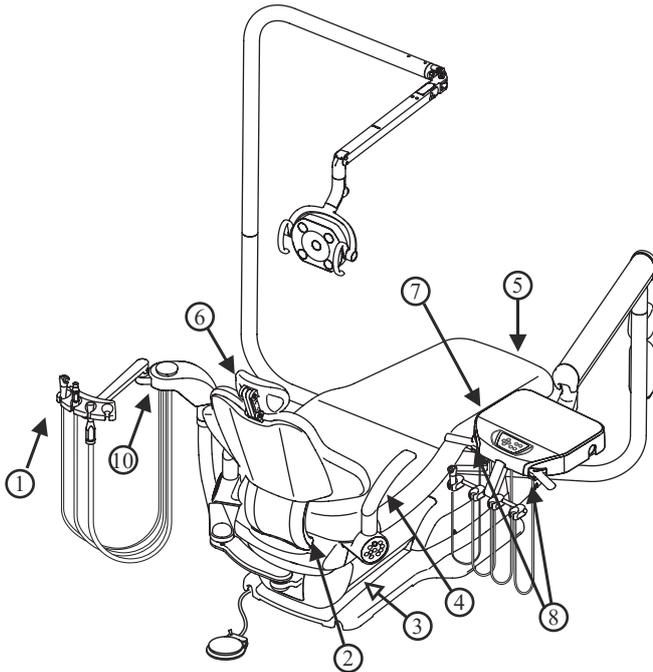
■ Caution Points During Operation of the Product

Description of Symbol Marks

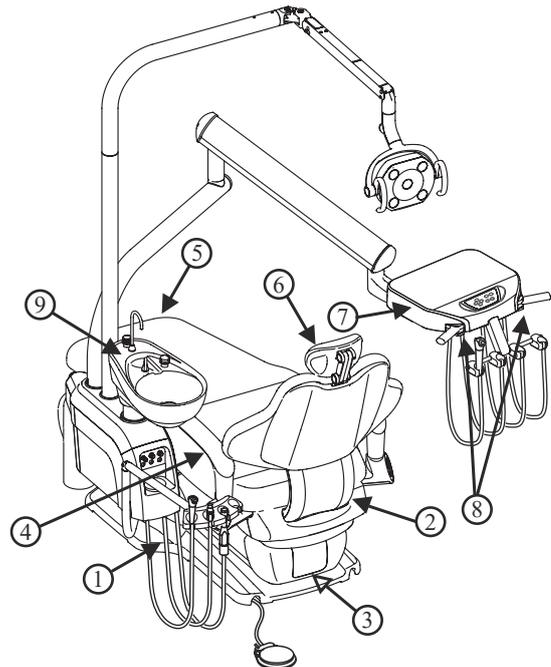
➡ : Caution areas such as moving parts, rotating parts and detachable parts to which caution should be paid.

➡ : Caution areas that are provided with an emergency stop mechanism.

Swing Mounted Delivery System
with Holder Type Table and Vac Pac and
Clesta LED Dental Light



Over the Patient Delivery System
with Holder Type Table and Cuspidor and
Clesta LED Dental Light



- ① Be aware of contact with the patient's instrument holder.
Ensure that the upper body of the patient does not go beyond the armrest into the cuspidor unit.
- ② Take care not to be trapped by moving parts of the backrest.
Do not put hands or feet into the gap between the backrest and the seat.
- ③ Take care not to be trapped between the sub link cover and the base plate.
Do not allow feet or obstruct between the sub link cover and the base plate.
- ④ Take care not to be trapped by the armrests.
Do not operate the chair with the armrests swing out 90 degrees.
- ⑤ Take care not to be trapped by the lower part of the seat.
Do not put hands or feet into the gap in the lower part of the seat.

- ⑥ Take care not to be trapped by moving parts of the headrest.
Do not allow hands, fingers or hair to become entangled in the moving parts of the headrest.
- ⑦ Be aware of interference between the chair and the table.
Do not move the table under the moving parts of the chair.
- ⑧ Pay attention while moving the Doctor's table up and down.
Do not move up and down the Doctor's table without releasing the balance arm brake.
- ⑨ Make sure that the patient does not lean on the cuspidor unit.
Pushing on the spittoon bowl causes it to swing outwards.
- ⑩ Take care not to be trapped by the joint part between the assistant arm and Vac pac main body.
Do not rotate the assistant arm holding the joint part by hands.

SAFETY PRECAUTIONS

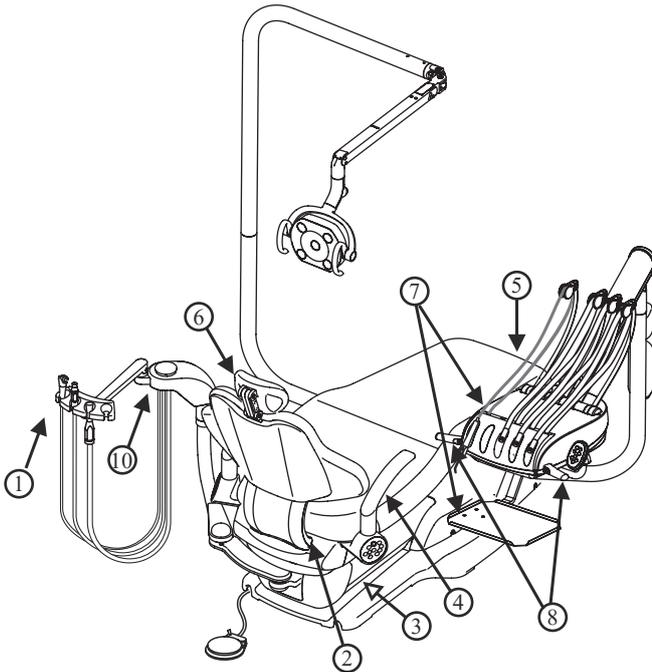
Caution Points During Operation of the Product

Description of Symbol Marks

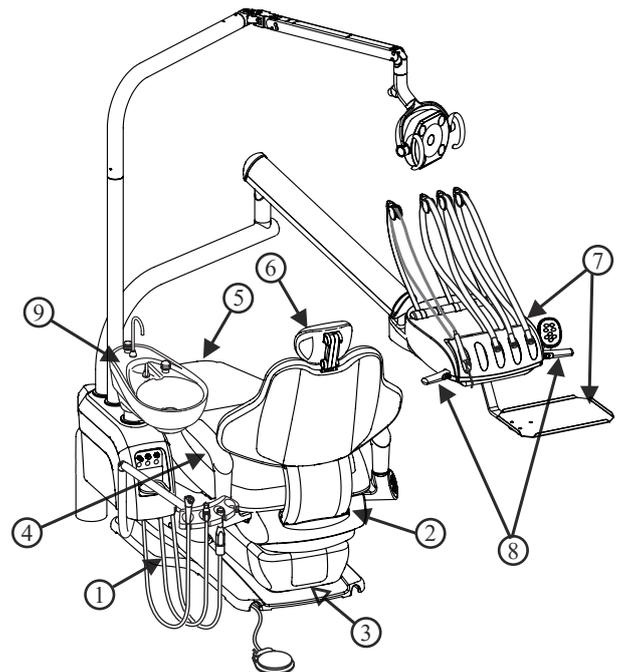
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➡ : Caution areas that are provided with an emergency stop mechanism.

Swing Mounted Delivery System
with Continental Type Table and Vac Pac and
Clesta LED Dental Light



Over the Patient Delivery System
with Continental Type Table and Cuspidor and
Clesta LED Dental Light



- ① Be aware of contact with the patient's instrument holder.
Ensure that the upper body of the patient does not go beyond the armrest into the cuspidor unit.
- ② Take care not to be trapped by moving parts of the backrest.
Do not put hands or feet into the gap between the backrest and the seat.
- ③ Take care not to be trapped between the sub link cover and the base plate.
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Do not allow hands, fingers or hair to become entangled in the moving parts of the headrest.
- ⑦ Be aware of interference between the chair and the table.
Do not move the table under the moving parts of the chair.
- ⑧ Pay attention while moving the Doctor's table up and down.
Do not move up and down the Doctor's table without releasing the balance arm brake.
- ⑨ Make sure that the patient does not lean on the cuspidor unit.
Pushing on the spittoon bowl causes it to swing outwards.
- ⑩ Take care not to be trapped by the joint part between the assistant arm and Vac pac main body.
Do not rotate the assistant arm holding the joint part by hands.

SAFETY PRECAUTIONS

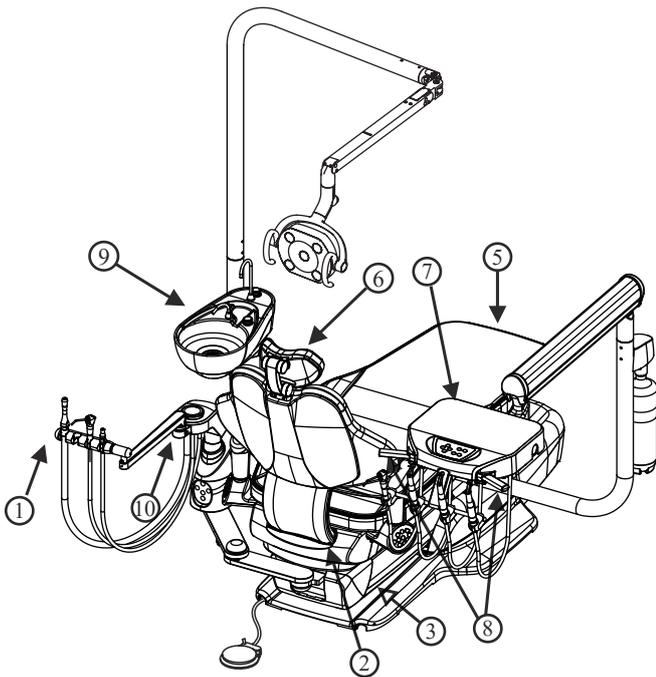
■ Caution Points During Operation of the Product

Description of Symbol Marks

➡ : Caution areas such as moving parts, rotating parts and detachable parts to which caution should be paid.

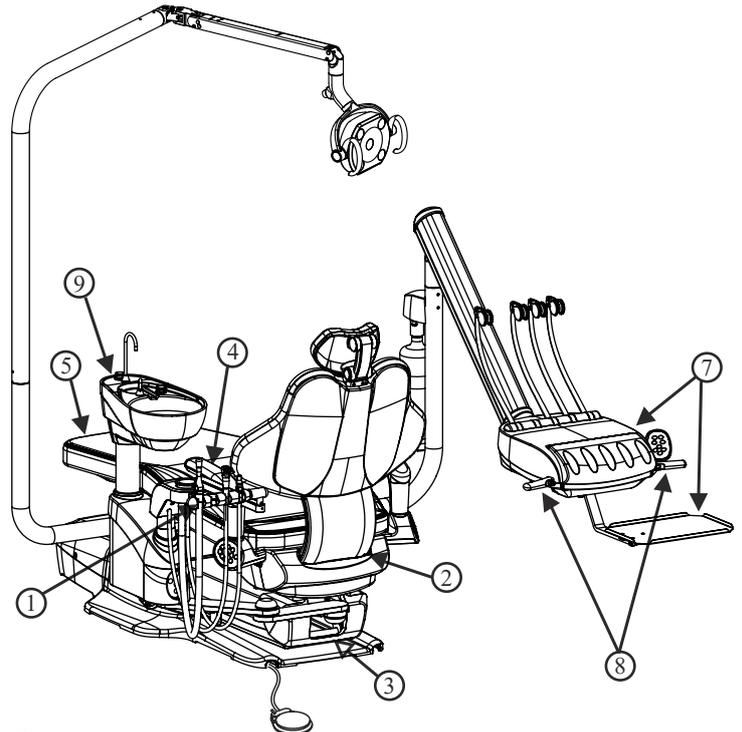
➡ : Caution areas that are provided with an emergency stop mechanism.

Swing Mounted Delivery System
with Holder Type Table and Left-Right Cuspidor
and Clesta LED Dental Light



- ① Be aware of contact with the patient's instrument holder.
Ensure that the upper body of the patient does not go beyond the armrest into the cuspidor unit.
- ② Take care not to be trapped by moving parts of the backrest.
Do not put hands or feet into the gap between the backrest and the seat.
- ③ Take care not to be trapped between the sub link cover and the base plate.
Do not allow feet or obstruct between the sub link cover and the base plate.
- ④ Take care not to be trapped by the armrests.
Do not operate the chair with the armrests swing out 90 degrees.
- ⑤ Take care not to be trapped by the lower part of the seat.
Do not put hands or feet into the gap in the lower part of the seat.

Over the Patient Delivery System
with Continental Type Table and Left-Right Cuspidor
and Clesta LED Dental Light



- ⑥ Take care not to be trapped by moving parts of the headrest.
Do not allow hands, fingers or hair to become entangled in the moving parts of the headrest.
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Do not move the table under the moving parts of the chair.
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Do not move up and down the Doctor's table without releasing the balance arm brake.
- ⑨ Make sure that the patient does not lean on the cuspidor unit.
Pushing on the spittoon bowl causes it to swing outwards.
- ⑩ Take care not to be trapped by the joint part between the assistant arm and Vac pac main body.
Do not rotate the assistant arm holding the joint part by hands.

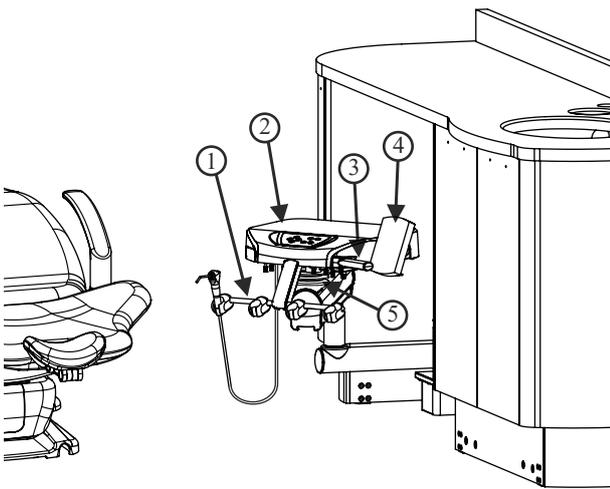
SAFETY PRECAUTIONS

■ Caution Points During Operation of the Product

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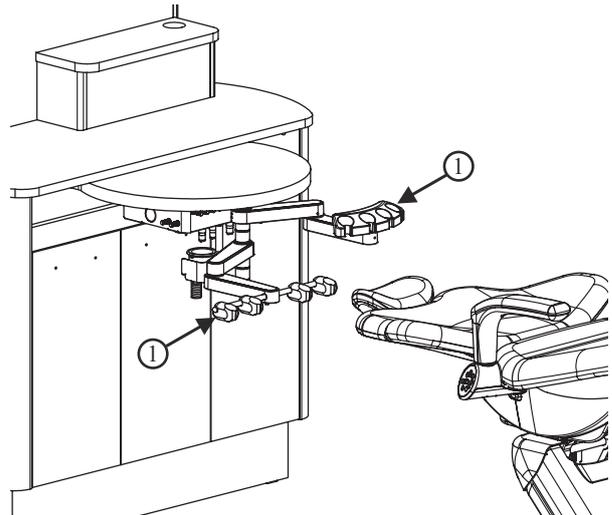
➔ : Caution areas such as moving parts, rotating parts and detachable parts to which caution should be paid.

Side Delivery System

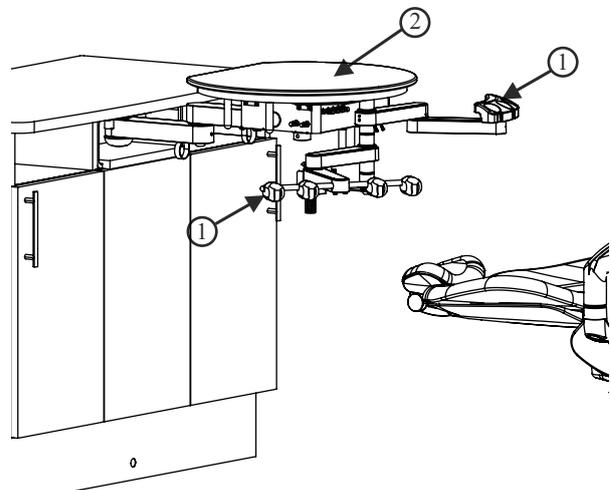


- ① Be aware of interference between the chair and handpiece holders.
Do not move the handpiece holders into the moving range of chair.
- ② Be aware of interference between the chair and the table.
Do not move the table into the moving range of chair.
- ③ Pay attention while moving the doctor's table up and down.
Do not move up and down the doctor's table without releasing the balance arm brake.
- ④ When putting the doctor table into the cabinet, be careful not to let the touchpad hit the cabinet.
※ The touchpad is an optional part.
- ⑤ Be aware of not to push the bellows cover part.

Rear Delivery System



Using with Arm for Rear Cabinet



- ① Be aware of interference between the chair and the arm.
Do not move the arm into the moving range of chair.
- ② Do not place or apply excess weight to the work surface.
The maximum weight limitation is 18kg (40lbs).

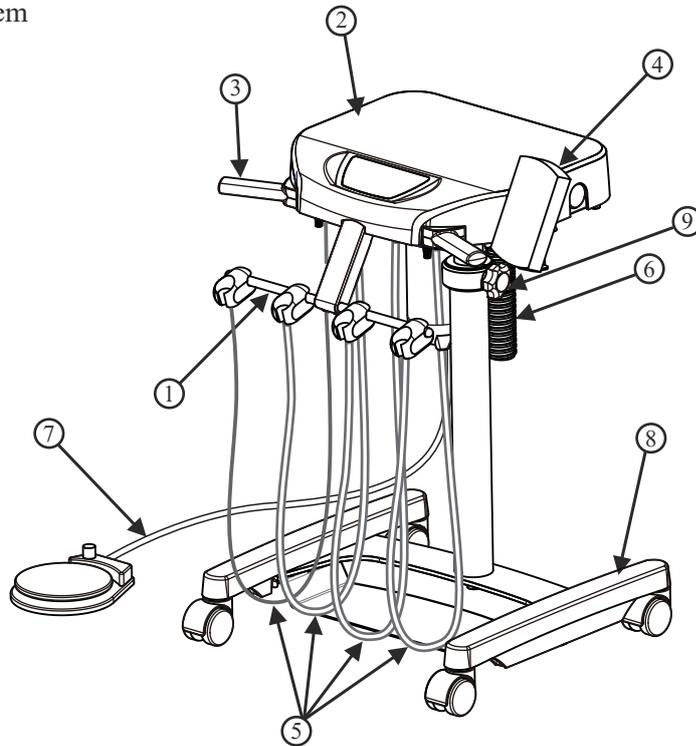
SAFETY PRECAUTIONS

■ Caution Points During Operation of the Product

Description of Symbol Marks

➔ : Caution areas such as moving parts, rotating parts and detachable parts to which caution should be paid.

Cart Delivery System



- ① Be aware of positioning the cart behind the chair and handpiece holders.
Do not move the handpiece holders into the moving range of chair backrest or the base cantilever lift arm..
- ② Be aware of interference between the chair and the table.
Do not move the table into the moving range of chair.
Do not place your feet on or sit on the table.
- ③ Pay attention while moving the doctor's table up and down.
Do not handle the table roughly.
- ④ When storing the cart underneath a cabinet, be careful that optional accessories do not contact cabinet.
※The touchpad is an optional part.
- ⑤ Be careful not to catch your body or clothing on handpiece attachments.
Be careful not to run the casters over the hoses.
- ⑥ Do not step on the cart umbilical hose.
- ⑦ When moving the cart, be careful not to stretch the umbilical hose or run casters over the hoses.
- ⑧ Do not put your feet on the cart base.
- ⑨ Before using the doctor table, make sure the lock knob is tightened and the table is fixed.

OPERATING PRECAUTIONS

■ Please observe following cautions to avoid the damage.



1. Do not place anything hot on the unit

Do not place anything hot on the unit. This could cause deformation or discoloration.

2. Precautions for cleaning

Never use sandpaper, metal scrub brushes or abrasive cleaning agents to clean the unit.
Do not use strongly acidic cleaning agents or alkaline pipe cleaning agents, which may cause corrosion of metals, etc.

3. Precautions for cleaning the chair seat positioning touchpad (membrane switches)

Penetration of droplets of disinfecting spray into the back of the chair seat positioning touchpad may be associated with switch failure. Use a paper towel soaked with disinfecting solution to clean the surface of the chair seat positioning touchpad.

4. Precautions for cleaning of the spittoon bowl

The spittoon bowl is made of ceramic. It may break if it is impacted. Do not wash it with hot water. Otherwise, it may break.

5. Precautions for cleaning the resin cover

For cleaning, do not use cleaning agents containing solvent or abrasives, thinners or oil-based alcohol (butanol and isopropyl alcohol), which may cause cracks.

6. Insert the nozzle straight into spittoon

Be sure to insert the cupfiller nozzle and bowl flush nozzle straight into each hole on the spittoon bowl after cleaning. Damage to the packing may lead to water leakage.

7. Move the table to highest position upon completion of work (Over the patient type)

When air exhausts from balance arm brake while no object is placed on the table, the doctor table may automatically raise to the highest position. Move the table to the highest position upon completion of work.

8. Precautions when using handpieces, etc.

In order to ensure safety, be sure to confirm that rotation has completely stopped before changing the rotation speed of the micromotor or inserting/removing the bar of handpieces. See the instruction manuals accompanying various handpieces for further information.

9. Discoloration of resin

Resin materials are used in external components of the product.
Carefully selected materials are used; however, discoloration may occur for reasons such as natural deterioration or the adherence of drug solutions.
To ensure use of the product for as long as possible, immediately wipe off any drug solutions adhered and avoid sunlight.

PRECAUTIONS FOR REGULATIONS

- Make sure to pay careful attention to the regulations on water and air by the local authorities as mentioned herein under.



CAUTION

1. Incoming water quality for the unit

Incoming water for this unit shall be qualified by a local waterworks authority including the hardness range of the water.

The operator of this unit is requested to confirm that the quality of the incoming water meets the quality standard of a local waterworks authority when using the unit.

2. Particle filter (in Junction Box)

Size and material of the particle filter : 40µm, Hydrophilic Polyethylene Foam (for Water)

20µm, Hydrophilic Polyethylene Foam (for Air)

Should you recognize the exhausting air and/or water pressure is weakening, this phenomenon maybe caused by the clogged filter, in this case you will be required to replace the filter.

3. Backflow prevention

Backflow prevention of procedural water into municipal water line is regulated by law. This unit is carefully designed to prevent the mentioned backflow. Any attempt that may causes unexpected backflow such as putting handpieces into water in a cup is prohibited.

4. Incoming air quality for the unit

Incoming dental air to this unit shall be free from oil, water, bacteria etc.

If dental air quality is regulated by national authority, follow their regulations.

PRACTICE OF FLUSH OUT

Precautions for water quality

CAUTION

Practice the flush out of water retained in the unit at the beginning of each work day to maintain the quality of dental treatment water and ensure a steady supply of water to handpieces.

- After this unit has not been used for a long period of time (at the beginning of the week, in the morning etc.), water retained in the hose inside the unit will create an environment where unwanted bacteria are likely to grow. In order to ensure safe treatment and untroubled operation of handpieces, practice the flush out of the unit water line at the beginning of each work day.
- It is recommended that flush out water inside the unit and hose of handpieces should be performed with fresh water at the end of morning office hours and at the end of each work day to inhibit the growth of unwanted bacteria.

■ Standard time required for flush out of the unit water line

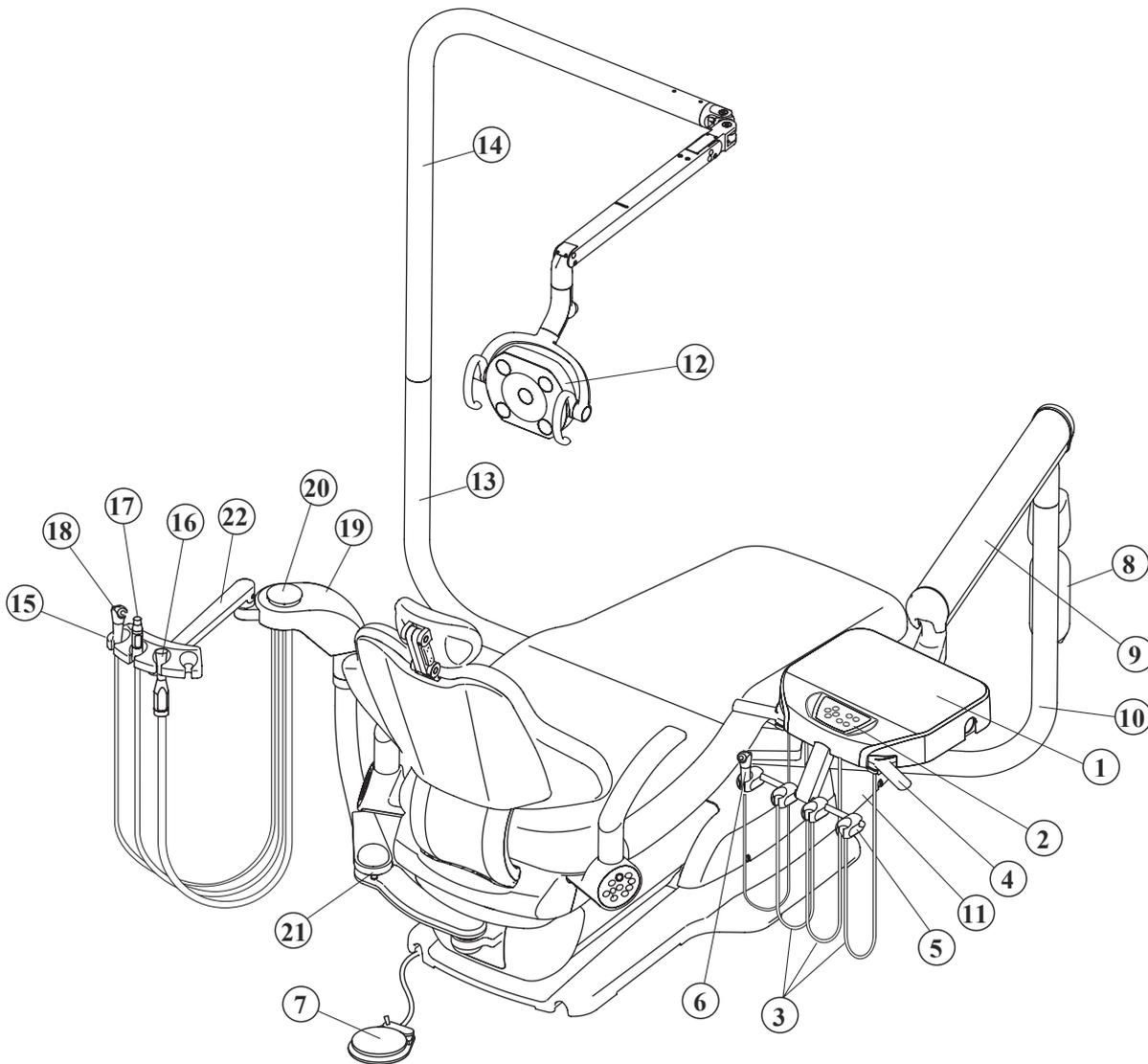
<ul style="list-style-type: none"> ● Handpiece line Handpiece Syringe (Both Doctor's and Assistant's) <div style="text-align: center;"> CAUTION</div> <div style="border: 1px solid black; padding: 5px; margin-top: 10px;"> <p>Perform flush out of the scaler with it attached to the main unit. Otherwise, a malfunction may be caused.</p> </div>	<p>Approximately 40 seconds per turbine, motor, scaler and syringe (approximately 40 seconds when flush out of all of them is performed at the same time.)</p>
<ul style="list-style-type: none"> ● Cuspidor line Cupfiller Bowl flush 	<p>Approximately 5 minutes for water changing in the cup filler line.</p>

Procedure of flush out

<ul style="list-style-type: none"> ● Handpiece line Handpiece <p>Pick up handpieces from the holder one at a time, leave the turbine untouched and remove the bar for handpieces from the motor and hold the motor over the spittoon bowl. (When the flush out function is active, pick up all handpieces in clusters and hold them over the spittoon bowl.)</p>	<p>Pick up the handpieces then turn on the flush out switch to flush out the handpiece water.</p>
<ul style="list-style-type: none"> ● Syringe (Both Doctor's and Assistant's) 	<p>Pick up the Syringe then push the button of the Syringe water to flush out the Syringe water.</p>
<ul style="list-style-type: none"> ● Cuspidor line Cupfiller Bowl flush 	<p>The water filled to the cup, then drain the water of the cup to flushing out the cupfiller water. Repeat it 7~8 times.</p>

OVERVIEW AND MAJOR COMPONENTS

Swing Mounted Delivery System with Holder Type Table and Vac Pac and Clesta LED Dental Light (Quolis Chair)

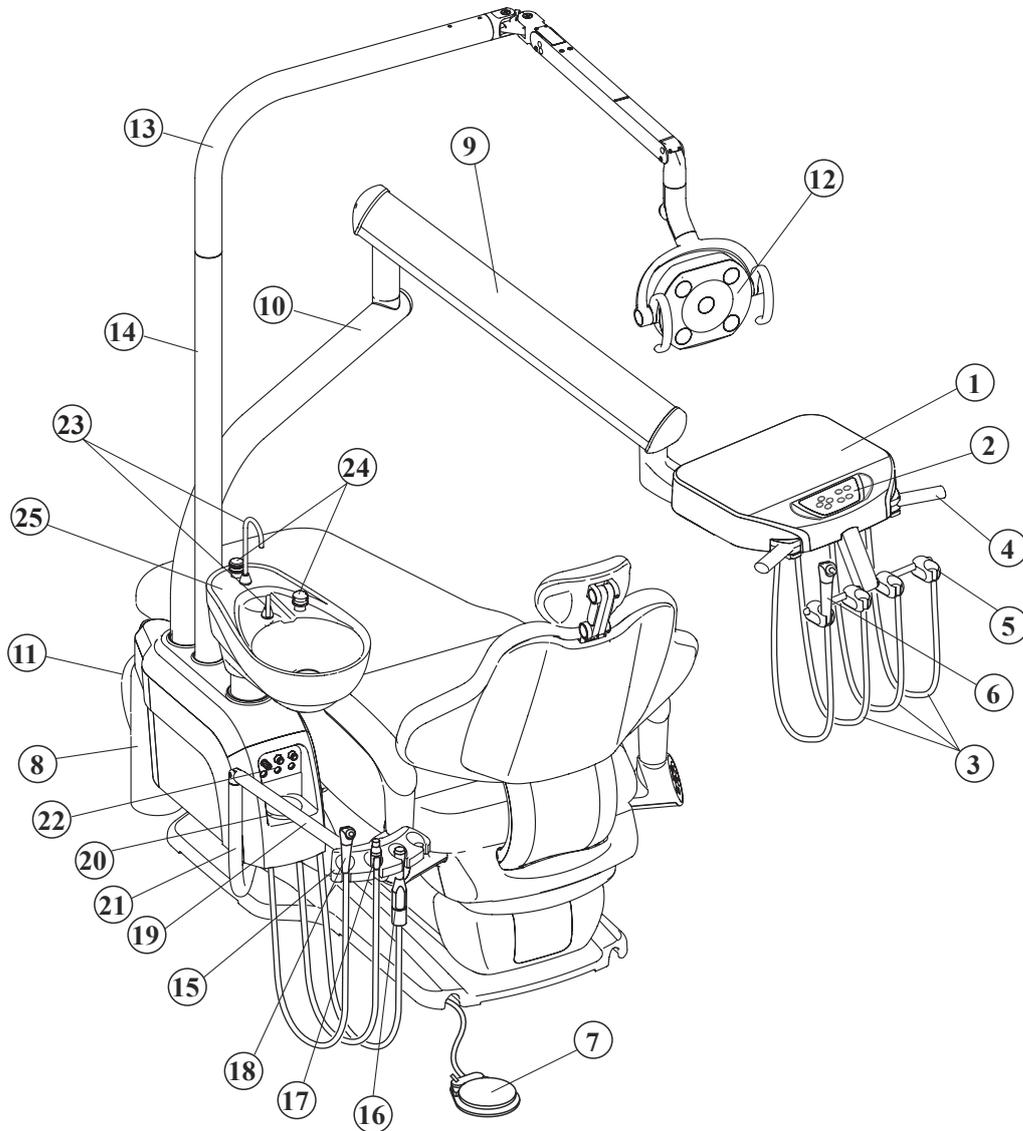


- | | |
|-------------------------------------|----------------------------------|
| (1) Control Head | (12) Dental Light |
| (2) Chair Seat Positioning Touchpad | (13) Dental Light Swing Arm |
| (3) Handpiece Hose | (14) Light Pole |
| (4) Handle | (15) Assistant Instrument Holder |
| (5) Handpiece Holders | (16) HVE |
| (6) Doctor's Syringe (*) | (17) Saliva Ejector |
| (7) Foot Control | (18) Assistant's Syringe (*) |
| (8) Water Bottle | (19) Vac Pac Housing |
| (9) Balance Arm | (20) Solid Collector |
| (10) Doctor Swing Arm | (21) Assistant Swing Arm |
| (11) Junction Box | (22) Assistant Holder Arm |

(*Note) Evogue does not include syringe tips. Syringe tips manufactured by DCI are compatible with syringes used with this delivery system.

OVERVIEW AND MAJOR COMPONENTS

Over the Patient Delivery System with Holder Type Table and Cuspidor and Clesta LED Dental Light (Quolis Chair)

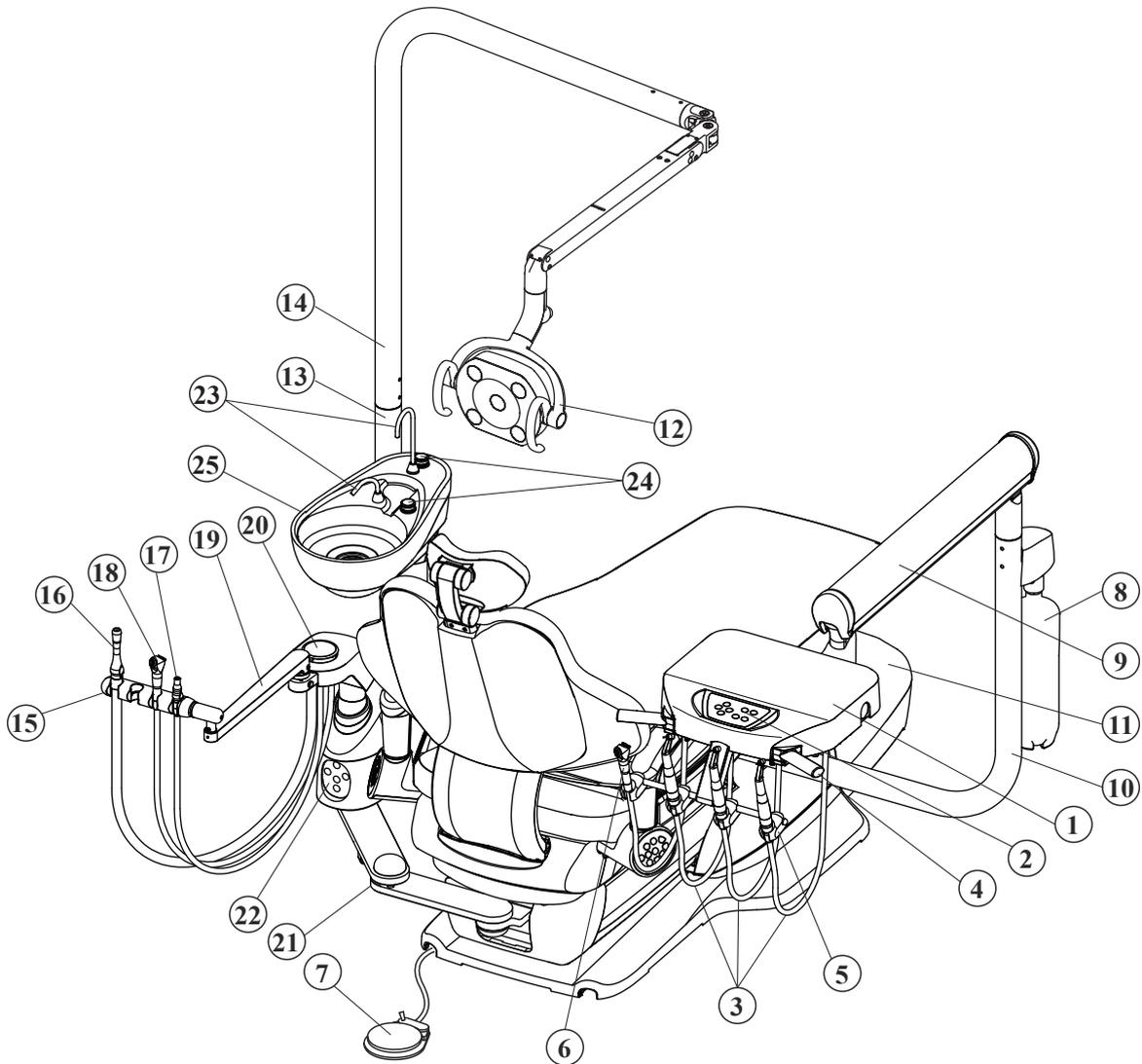


- | | |
|-------------------------------------|---|
| (1) Control Head | (14) Light Pole |
| (2) Chair Seat Positioning Touchpad | (15) Assistant Instrument Holder |
| (3) Handpiece Hose | (16) HVE |
| (4) Handle | (17) Saliva Ejector |
| (5) Handpiece Holders | (18) Assistant's Syringe (*) |
| (6) Doctor's Syringe (*) | (19) Assistant Holder Arm |
| (7) Foot Control | (20) Solid Collector |
| (8) Water Bottle | (21) Assistant Swing Arm |
| (9) Balance Arm | (22) PMU front panel |
| (10) Doctor Swing Arm | (23) Cupfiller nozzle and bowl flush nozzle |
| (11) Junction Box | (24) Cupfiller switch and bowl flush switch |
| (12) Dental Light | (25) Cuspidor bowl |
| (13) Dental Light Swing Arm | |

(*Note) Evogue does not include syringe tips. Syringe tips manufactured by DCI are compatible with syringes used with this delivery system.

OVERVIEW AND MAJOR COMPONENTS

Swing Mounted Delivery System with Holder Type Table and Left-Right Cuspidor and Clesta LED Dental Light (Quolis Chair)

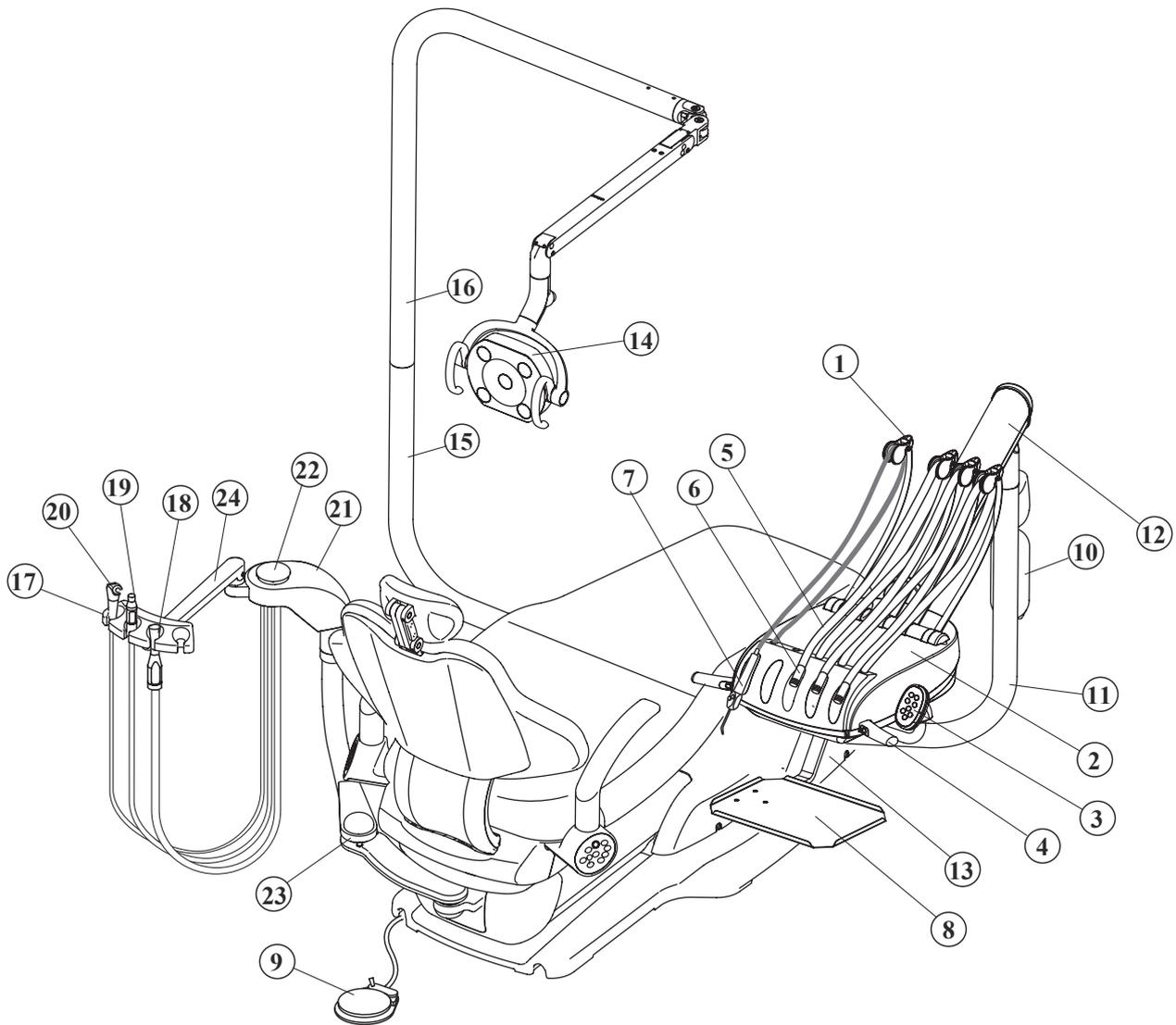


- | | |
|-------------------------------------|---|
| (1) Control Head | (14) Light Pole |
| (2) Chair Seat Positioning Touchpad | (15) Assistant Instrument Holder |
| (3) Handpiece Hose | (16) HVE |
| (4) Handle | (17) Saliva Ejector |
| (5) Handpiece Holders | (18) Assistant's Syringe (*) |
| (6) Doctor's Syringe (*) | (19) Assistant Holder Arm |
| (7) Foot Control | (20) Solid Collector |
| (8) Water Bottle | (21) Assistant Swing Arm |
| (9) Balance Arm | (22) PMU front panel |
| (10) Doctor Swing Arm | (23) Cupfiller nozzle and bowl flush nozzle |
| (11) Junction Box | (24) Cupfiller switch and bowl flush switch |
| (12) Dental Light | (25) Cuspidor bowl |
| (13) Dental Light Swing Arm | |

(*Note) Evogue does not include syringe tips. Syringe tips manufactured by DCI are compatible with syringes used with this delivery system.

OVERVIEW AND MAJOR COMPONENTS

Swing Mounted Delivery System with Continental Type Table and Vac Pac and Clesta LED Dental Light (Quolis Chair)

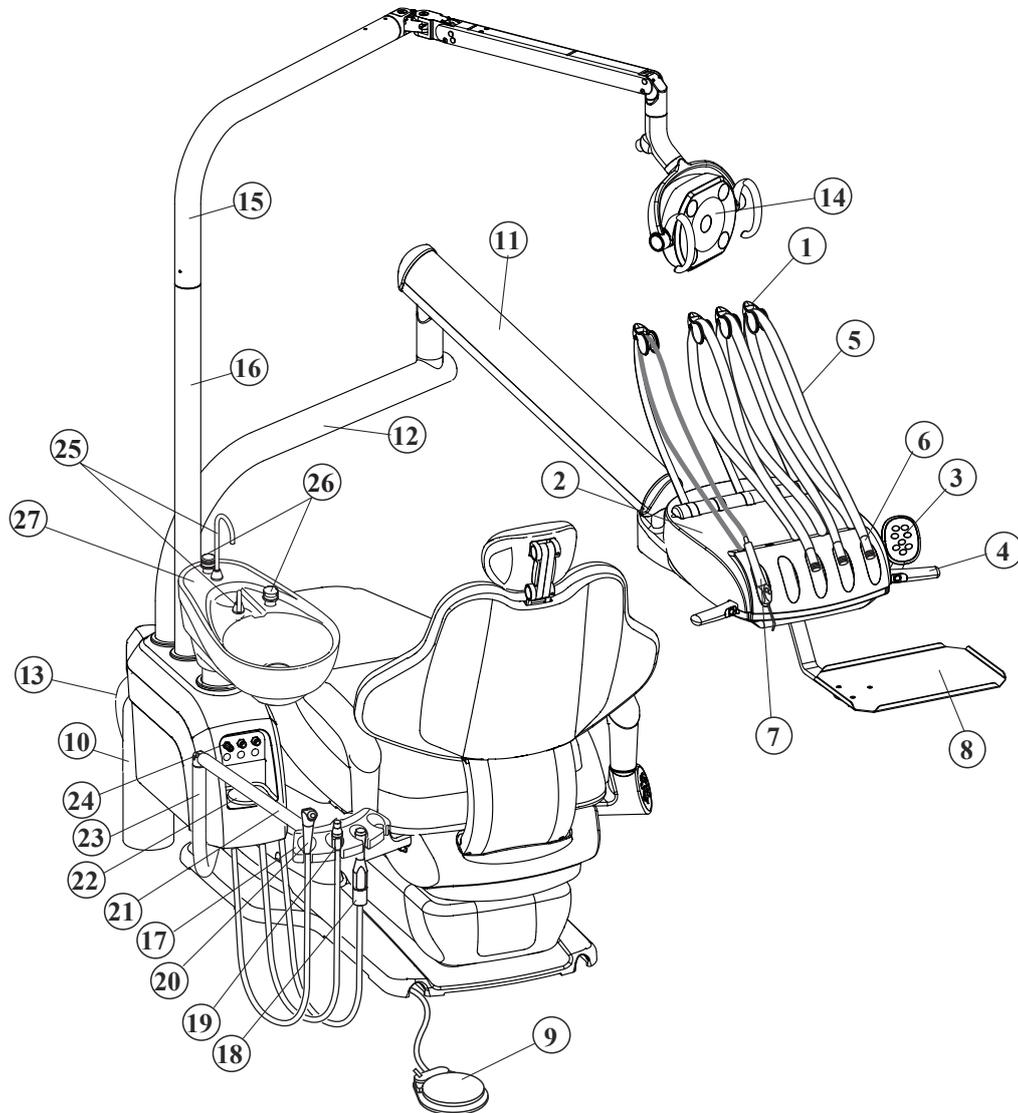


- | | |
|-------------------------------------|----------------------------------|
| (1) Rod Mechanism | (14) Dental Light |
| (2) Control Head | (15) Dental Light Swing Arm |
| (3) Chair Seat Positioning Touchpad | (16) Light Pole |
| (4) Handle | (17) Assistant Instrument Holder |
| (5) Handpiece Hose | (18) HVE |
| (6) Handpiece Rest | (19) Saliva Ejector |
| (7) Doctor's Syringe (*) | (20) Assistant's Syringe (*) |
| (8) Sub Tray | (21) Vac Pac Housing |
| (9) Foot Control | (22) Solid Collector |
| (10) Water Bottle | (23) Assistant Swing Arm |
| (11) Balance Arm | (24) Assistant Holder Arm |
| (12) Doctor Swing Arm | |
| (13) Junction Box | |

(*Note) Evogue does not include syringe tips. Syringe tips manufactured by DCI are compatible with syringes used with this delivery system.

OVERVIEW AND MAJOR COMPONENTS

Over the Patient Delivery System with Continental Type Table and Cuspidor and Clesta LED Dental Light (Quolis Chair)

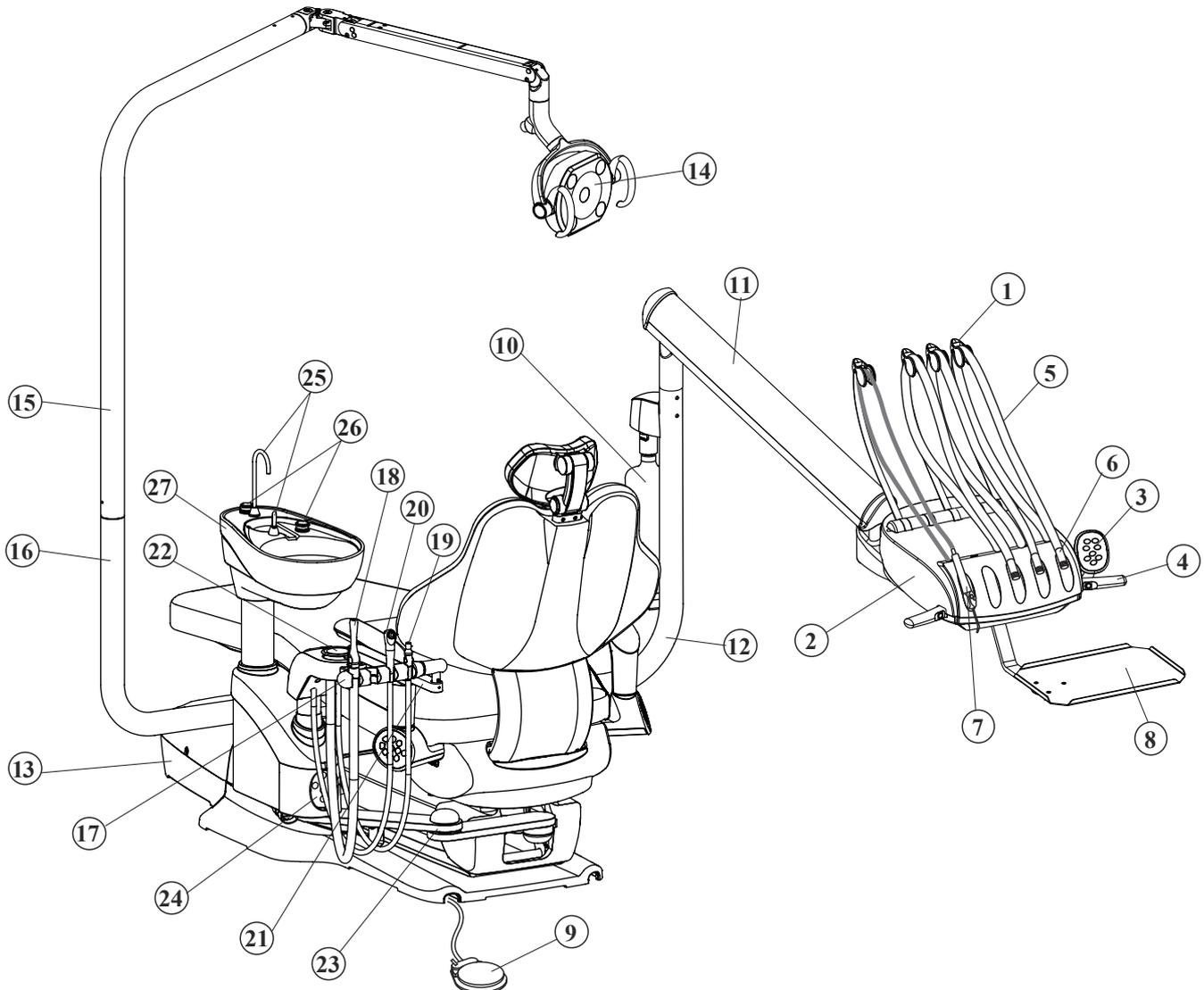


- | | |
|-------------------------------------|---|
| (1) Rod Mechanism | (15) Dental Light Swing Arm |
| (2) Control Head | (16) Light Pole |
| (3) Chair Seat Positioning Touchpad | (17) Assistant Instrument Holder |
| (4) Handle | (18) HVE |
| (5) Handpiece Hose | (19) Saliva Ejector |
| (6) Handpiece Rest | (20) Assistant's Syringe (*) |
| (7) Doctor's Syringe (*) | (21) Assistant Holder Arm |
| (8) Sub Tray | (22) Solid Collector |
| (9) Foot Control | (23) Assistant Swing Arm |
| (10) Water Bottle | (24) PMU front panel |
| (11) Balance Arm | (25) Cupfiller nozzle and bowl flush nozzle |
| (12) Doctor Swing Arm | (26) Cupfiller switch and bowl flush switch |
| (13) Junction Box | (27) Cuspidor bowl |
| (14) Dental Light | |

(*Note) Evogue does not include syringe tips. Syringe tips manufactured by DCI are compatible with syringes used with this delivery system.

OVERVIEW AND MAJOR COMPONENTS

Swing Mounted Delivery System with Continental Type Table and Left-Right Cuspidor and Clesta LED Dental Light (Quolis Chair)

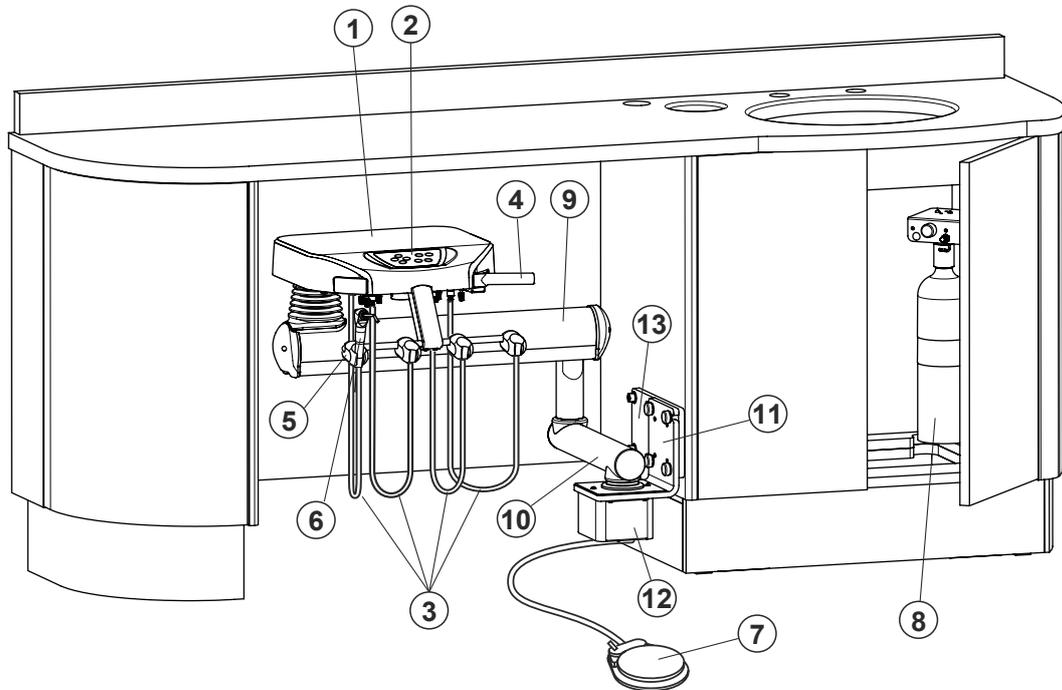


- | | |
|-------------------------------------|---|
| (1) Rod Mechanism | (15) Dental Light Swing Arm |
| (2) Control Head | (16) Light Pole |
| (3) Chair Seat Positioning Touchpad | (17) Assistant Instrument Holder |
| (4) Handle | (18) HVE |
| (5) Handpiece Hose | (19) Saliva Ejector |
| (6) Handpiece Rest | (20) Assistant's Syringe (*) |
| (7) Doctor's Syringe (*) | (21) Assistant Holder Arm |
| (8) Sub Tray | (22) Solid Collector |
| (9) Foot Control | (23) Assistant Swing Arm |
| (10) Water Bottle | (24) PMU front panel |
| (11) Balance Arm | (25) Cupfiller nozzle and bowl flush nozzle |
| (12) Doctor Swing Arm | (26) Cupfiller switch and bowl flush switch |
| (13) Junction Box | (27) Cuspidor bowl |
| (14) Dental Light | |

(*Note) Evogue does not include syringe tips. Syringe tips manufactured by DCI are compatible with syringes used with this delivery system.

OVERVIEW AND MAJOR COMPONENTS

Side Delivery System



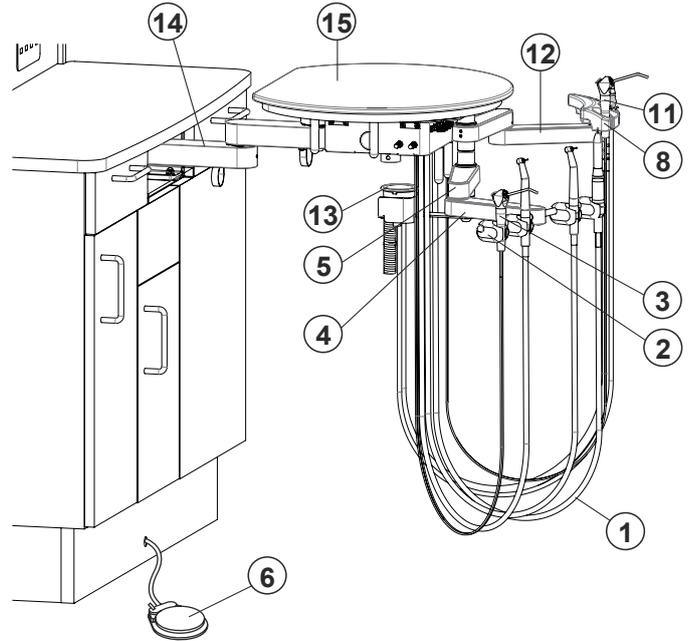
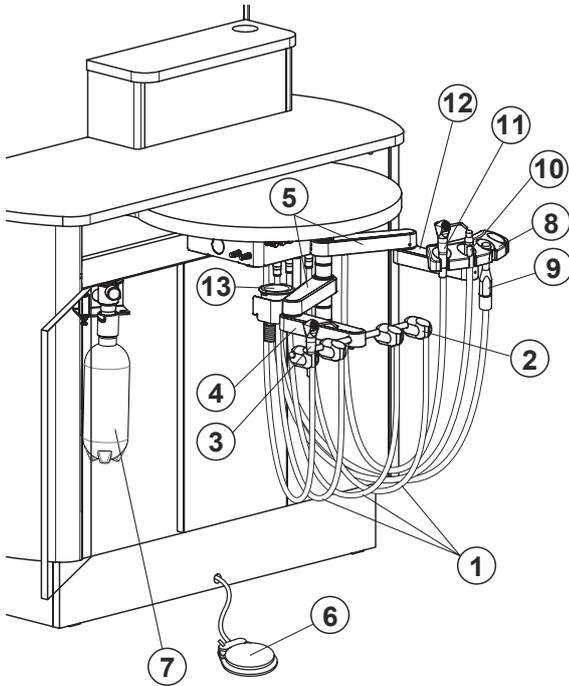
- | | |
|-------------------------------------|-----------------------------|
| (1) Control Head | (8) Water Bottle |
| (2) Chair Seat Positioning Touchpad | (9) Balance Arm |
| (3) Handpiece Hose | (10) First Arm |
| (4) Handle | (11) Mounting Bracket |
| (5) Handpiece Holders | (12) Mounting Bracket Cover |
| (6) Doctor's Syringe (*) | (13) Mounting Plate |
| (7) Foot Control | |

(*Note) Evogue Unit does not include syringe tips. Syringe tips manufactured by DCI are compatible with syringes used with this delivery system.

OVERVIEW AND MAJOR COMPONENTS

Rear Delivery System

Using with Arm for Rear Cabinet



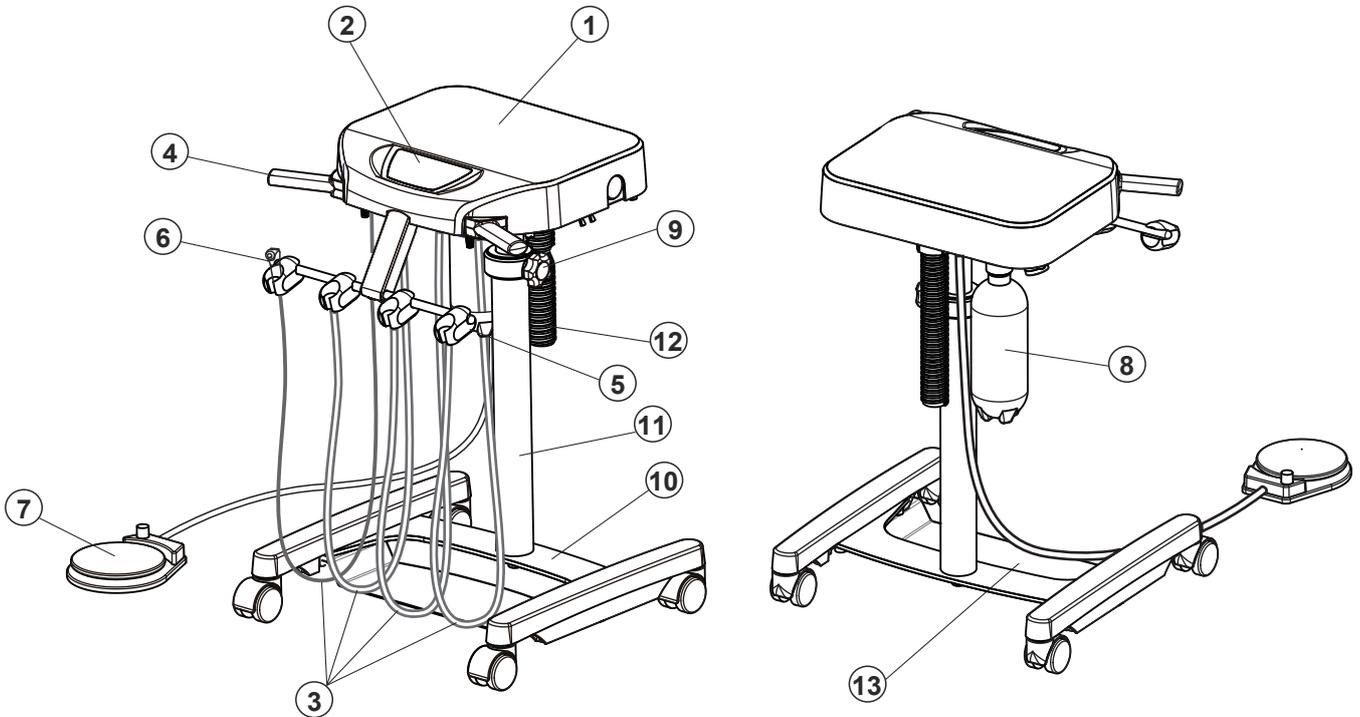
- (1) Handpiece Hose
- (2) Handpiece Holders
- (3) Doctor's Syringe (*)
- (4) Doctor Arm
- (5) First Arm
- (6) Foot Control
- (7) Water Bottle

- (8) Assistant Instrument Holder
- (9) HVE
- (10) Saliva Ejector
- (11) Assistant's Syringe (*)
- (12) Assistant Arm
- (13) Solid Collector
- (14) Arm for Rear Cabinet
- (15) Work Surface

(*Note) Evogue Unit does not include syringe tips. Syringe tips manufactured by DCI are compatible with syringes used with this delivery system.

OVERVIEW AND MAJOR COMPONENTS

Cart Delivery System



- (1) Control Head
- (2) Chair Seat Positioning Touchpad (*1)
- (3) Handpiece & Syringe Hoses
- (4) Handle
- (5) Syringe and Handpiece Holders
- (6) Doctor's Syringe (*2)

- (7) Foot Control
- (8) Water Bottle
- (9) Height Adjustment Lock Knob
- (10) Cart Base
- (11) Cart Base Support Post
- (12) Cart Umbilical Hose
- (13) Foot Control Rack

(*1) The Seat Positioning Control Touchpad is an option. Cover Plate is standard.

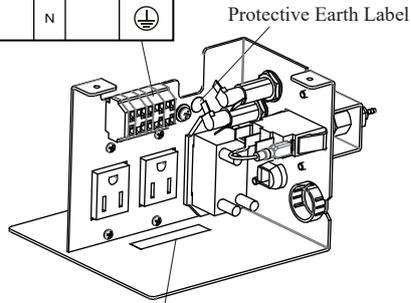
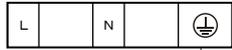
(*2) Evogue Unit does not include syringe tips. Syringe tips manufactured by DCI are compatible with syringes used with this delivery system.

LOCATION OF THE LABELS

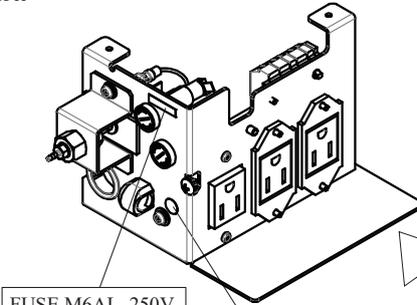
Swing Mounted Delivery System with Holder Type Table and Vac Pac and Clesta LED Dental Light

Labels are located on the product as below.

Inside of Junction Box



Do not connect any devices to the power supply which are not authorized by Belmont.



FUSE M6AL, 250V

Protective Earth Label

Product Logo



Front of Junction Box

Type B Applied Parts Label



Serial Label

Dental Delivery Unit
Unité de livraison dentaire
Model/Modèle Evogue UNIT
Control No./N° de contrôle AU-HV****
Serial No./N° de série *****

UDI Label



Prop65 Label

WARNING 1A0SK2A0
Cancer and Reproductive Harm -
www.P65Warnings.ca.gov.

Product Label

Dental Delivery Unit
Unité de livraison dentaire
Model/Modèle Evogue UNIT
Control No./N° de contrôle AU-HV****
Serial No./N° de série V*****
Rated Voltage 120V ~60Hz
Tension nominale
Rated Input/Entrée nominale 1.6A
Belmont YYY-MM-DD
Product of Vietnam
L11-11, Linn, Que, Industrial Park, Long Duc Ward,
Long Thanh District, Dong Nai Province, Vietnam
Designed by TAYARA BELMONT JAPAN/Concep par TAYARA BELMONT JAPAN

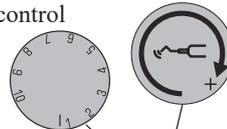
IPX 1

IPX 1 Label

ETL Label

ETL CLASSIFIED
Conforms to
ANSI(AAMI) STD E560601-1
IEC STD 60601-1-2-00
Certified to CAN/CSA STD
C22.2 No. 60601-1
Intertek
5001553

Ultrasonic Scaler control



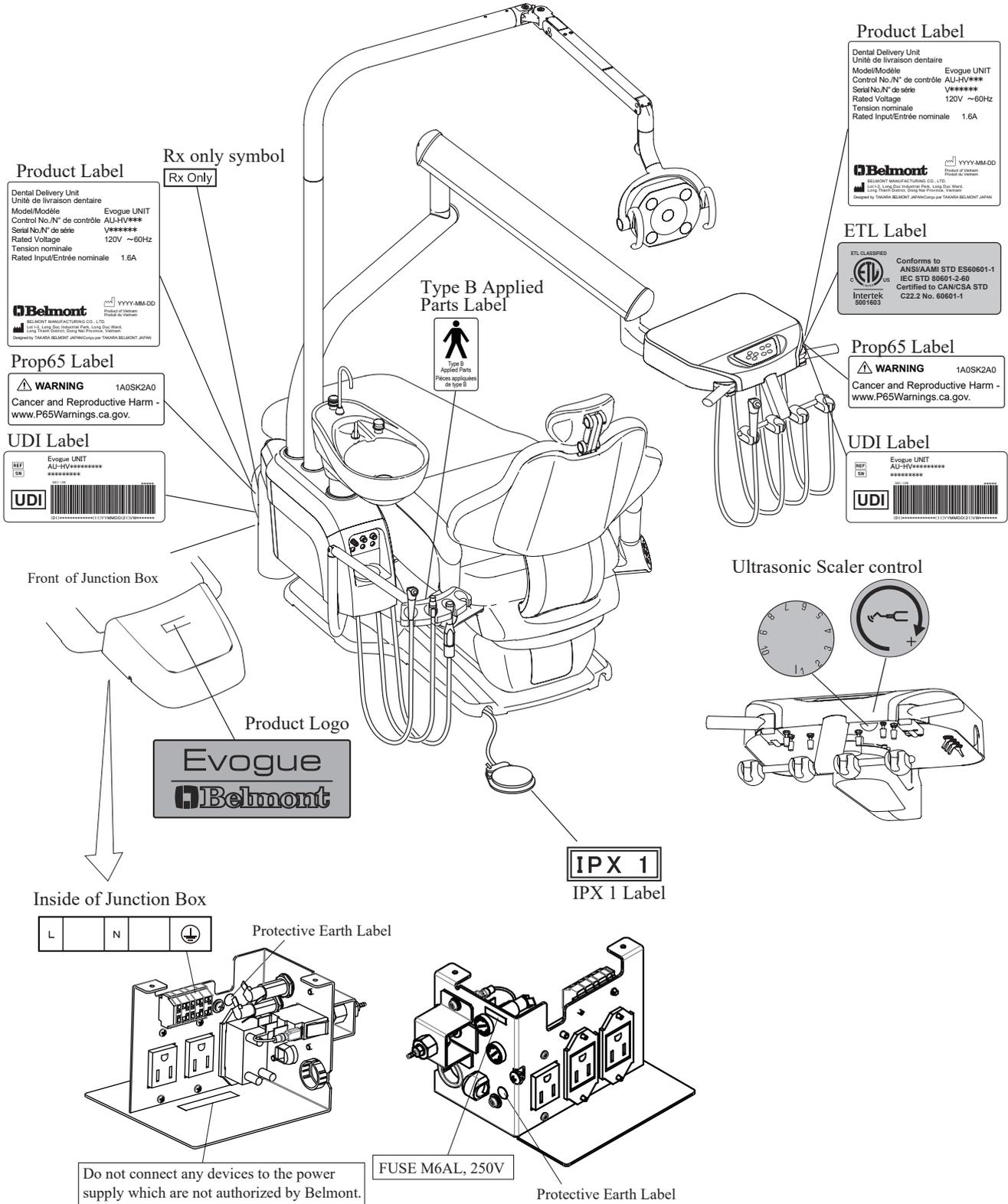
Serial Label

UDI Label

LOCATION OF THE LABELS

Over the Patient Delivery System with Holder Type Table and Cuspidor and Clesta LED Dental Light

Labels are located on the product as below.

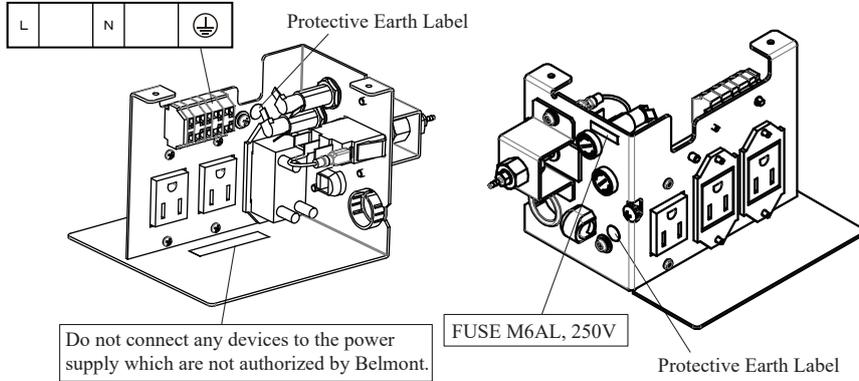


LOCATION OF THE LABELS

Swing Mounted Delivery System with Holder Type Table and Left-Right Cuspidor and Clesta LED Dental Light

Labels are located on the product as below.

Inside of Junction Box



Product Logo

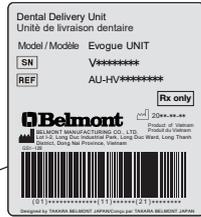


Prop65 Label



Dental Tech Site QR

Product Label



Front of Junction Box

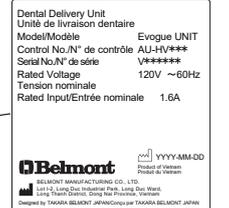
Type B Applied Parts Label



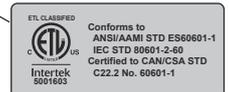
UDI Label



Product Label



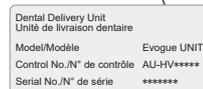
ETL Label



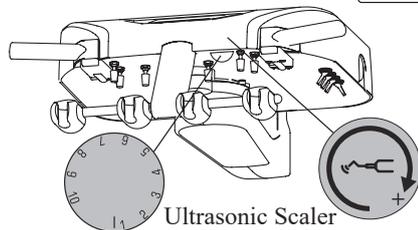
Prop65 Label



Serial Label



IPX 1
IPX 1 Label

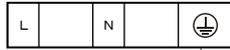


LOCATION OF THE LABELS

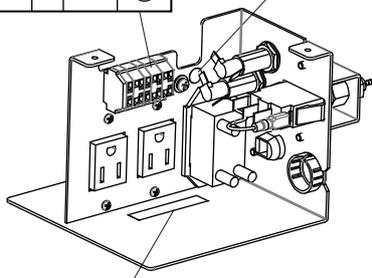
Swing Mounted Delivery System with Continental Type Table and Vac Pac and Clesta LED Dental Light

Labels are located on the product as below.

Inside of Junction Box

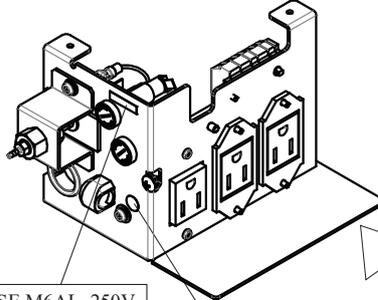


Protective Earth Label



Do not connect any devices to the power supply which are not authorized by Belmont.

FUSE M6AL, 250V



Protective Earth Label

Product Logo



Front of Junction Box

Type B Applied



Serial Label

Dental Delivery Unit
Unité de livraison dentaire
Model/Modèle Evogue UNIT
Control No./N° de contrôle AU-HV*****
Serial No./N° de série *****

UDI Label



Prop65 Label

WARNING 1A0SK2A0
Cancer and Reproductive Harm -
www.P65Warnings.ca.gov.

Product Label

Dental Delivery Unit
Unité de livraison dentaire
Model/Modèle Evogue UNIT
Control No./N° de contrôle AU-HV*****
Serial No./N° de série YH*****
Rated Voltage Tension nominale 120V ~60Hz
Rated Input/Entrée nominale 1.6A

Belmont Product of Vietnam
BELMONT MANUFACTURING CO., LTD.
147/15 Long Dien Industrial Park, Long Duc Ward,
Long Thanh District, Dong Nai Province, Vietnam.
Distributors: TRAVELER BELMONT (FRANCE) S.A. / TRAVELER BELMONT JAPAN

IPX 1
IPX 1 Label

ETL Label

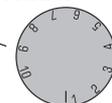
ETL CLASSIFIED
Conforms to
ANSI/AAMI STD E860601-1
IEC STD 60601-2-60
Certified to CAN/CSA STD
C22.2 No. 60601-1
Intertek
5001553



Serial Label

UDI Label

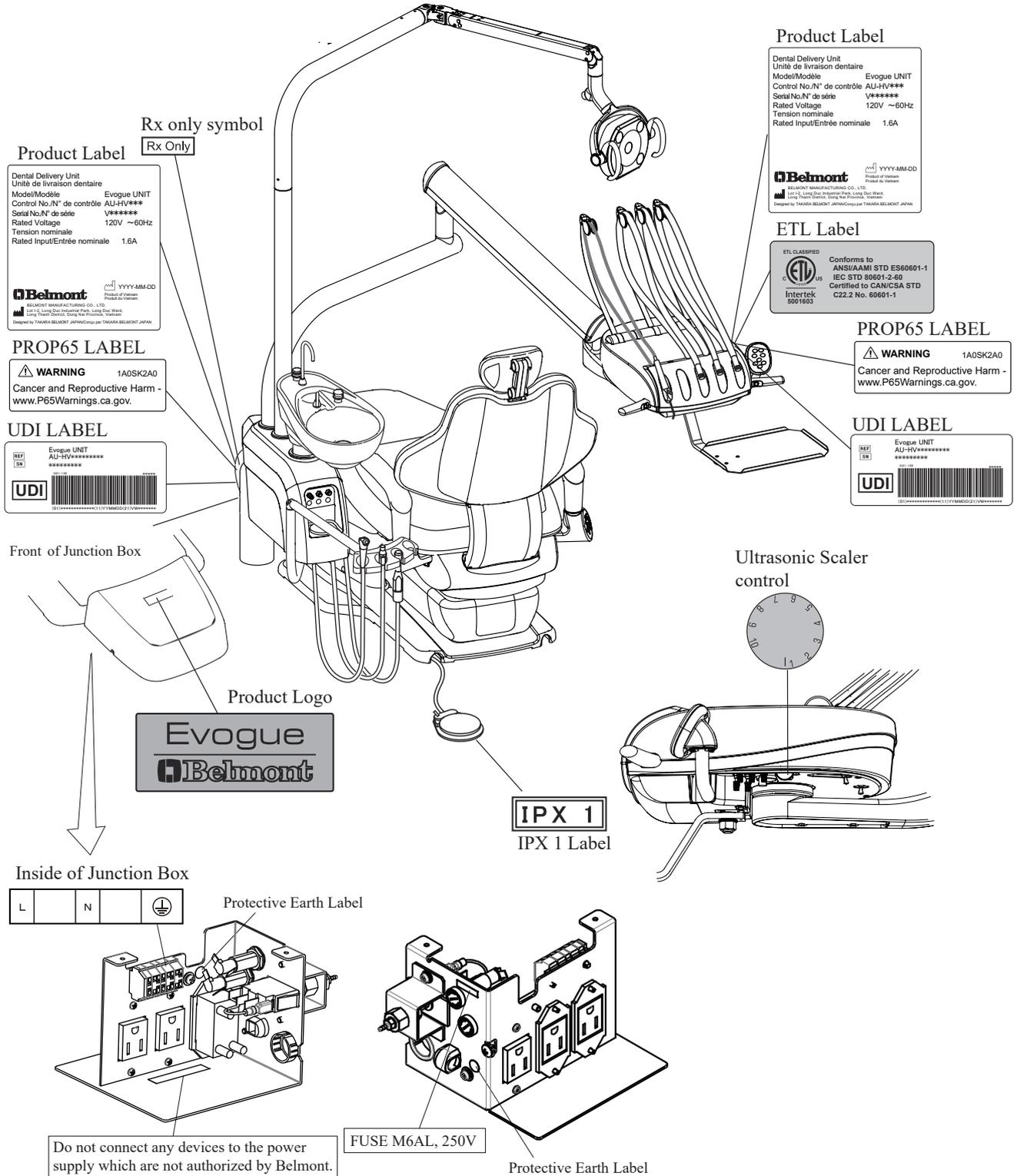
Ultrasonic Scaler control



LOCATION OF THE LABELS

Swing Mounted Delivery System with Continental Type Table and caspidor and Clesta LED Dental Light

Labels are located on the product as below.



LOCATION OF THE LABELS

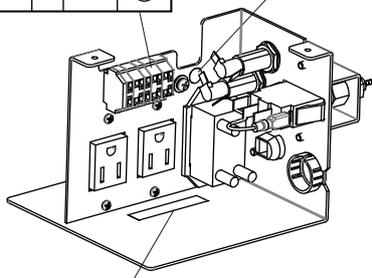
Swing Mounted Delivery System with Continental Type Table Left-Right and caspidor and Clesta LED Dental Light

Labels are located on the product as below.

Inside of Junction Box

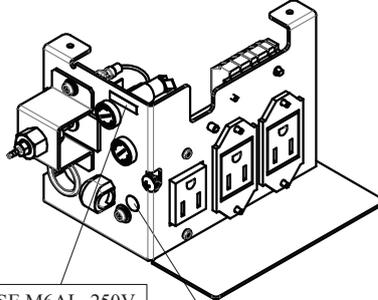


Protective Earth Label



Do not connect any devices to the power supply which are not authorized by Belmont.

FUSE M6AL, 250V



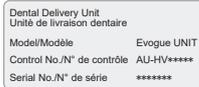
Protective Earth Label

Product Logo



Front of Junction Box

Serial Label



Type B Applied

Parts Label



Type B Applied Parts
Pictos appliqués de type B

UDI Label



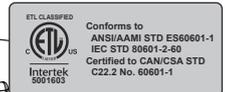
Prop65 Label



Product Label



ETL Label



Dental Tech Site QR

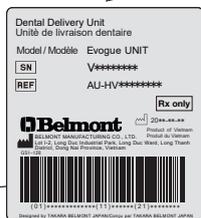


Prop65 Label



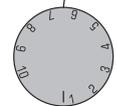
IPX 1

IPX 1 Label



Product Label

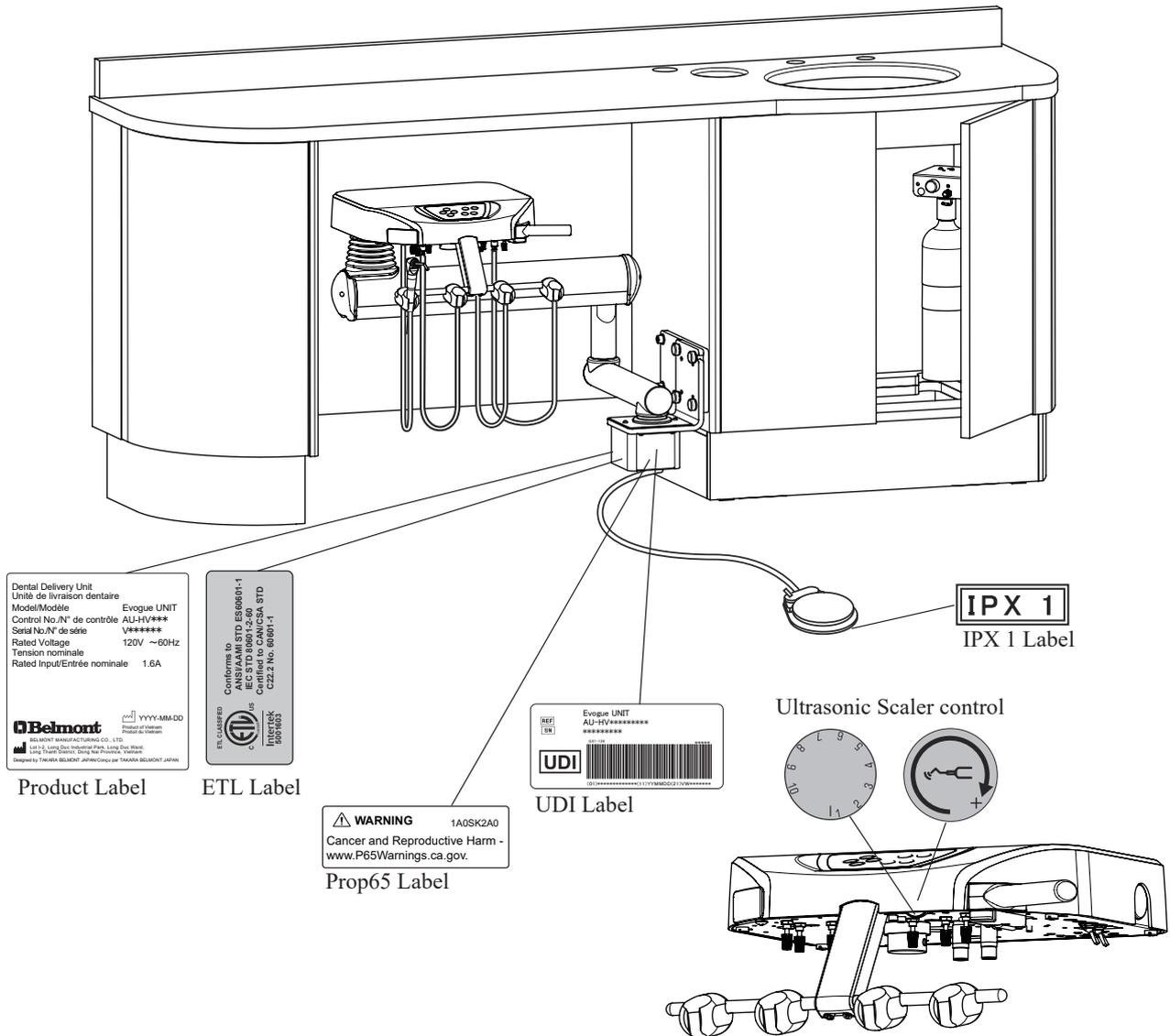
Ultrasonic Scaler control



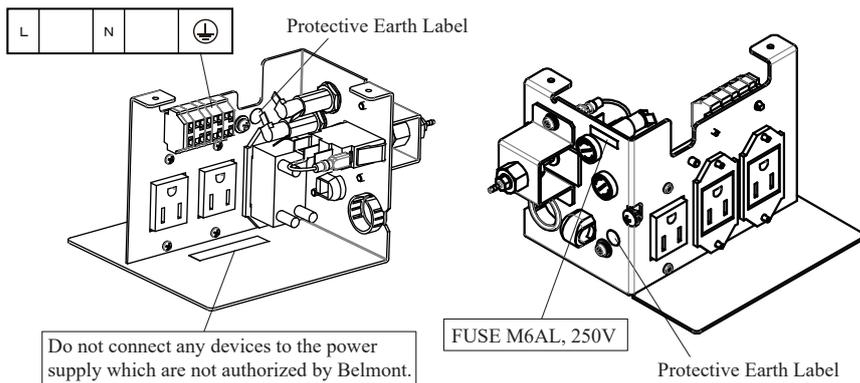
LOCATION OF THE LABELS

Side Delivery System

Labels are located on the product as below.



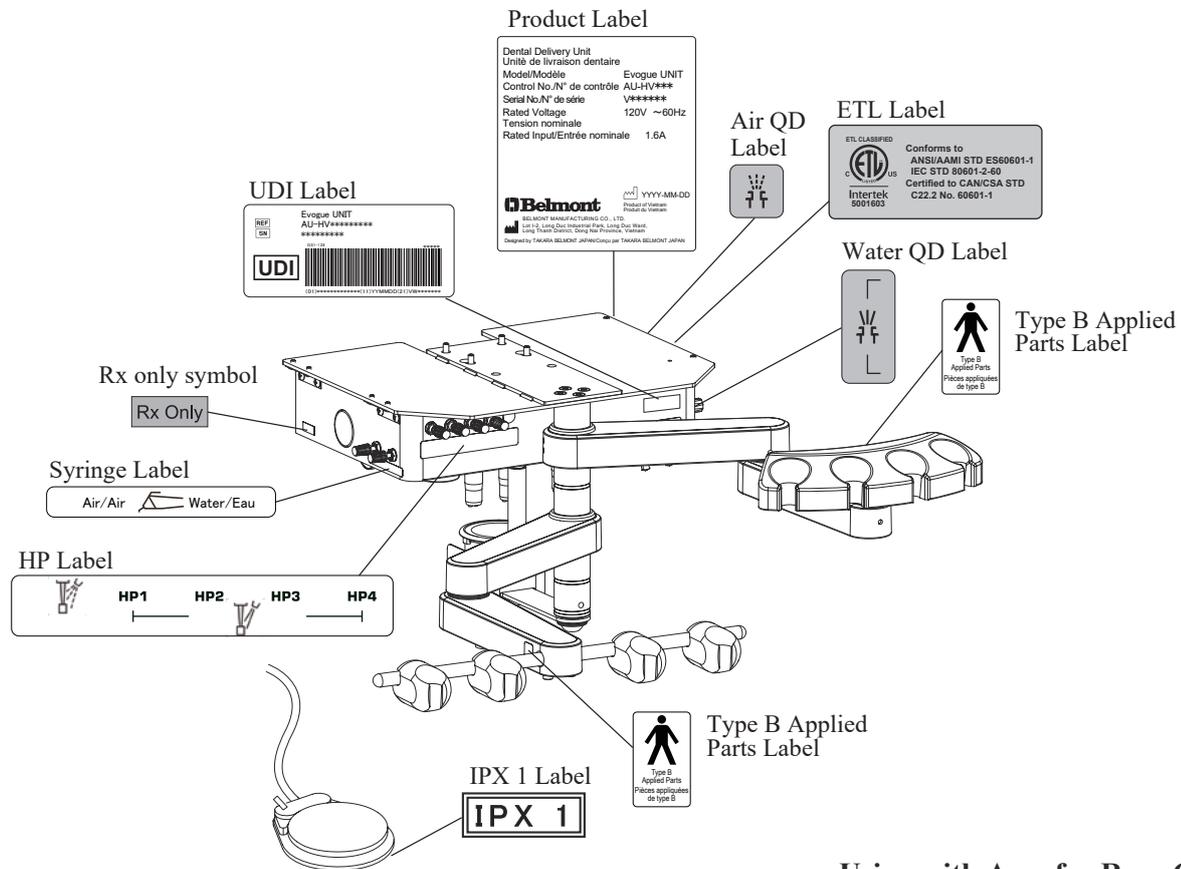
Inside of Junction Box



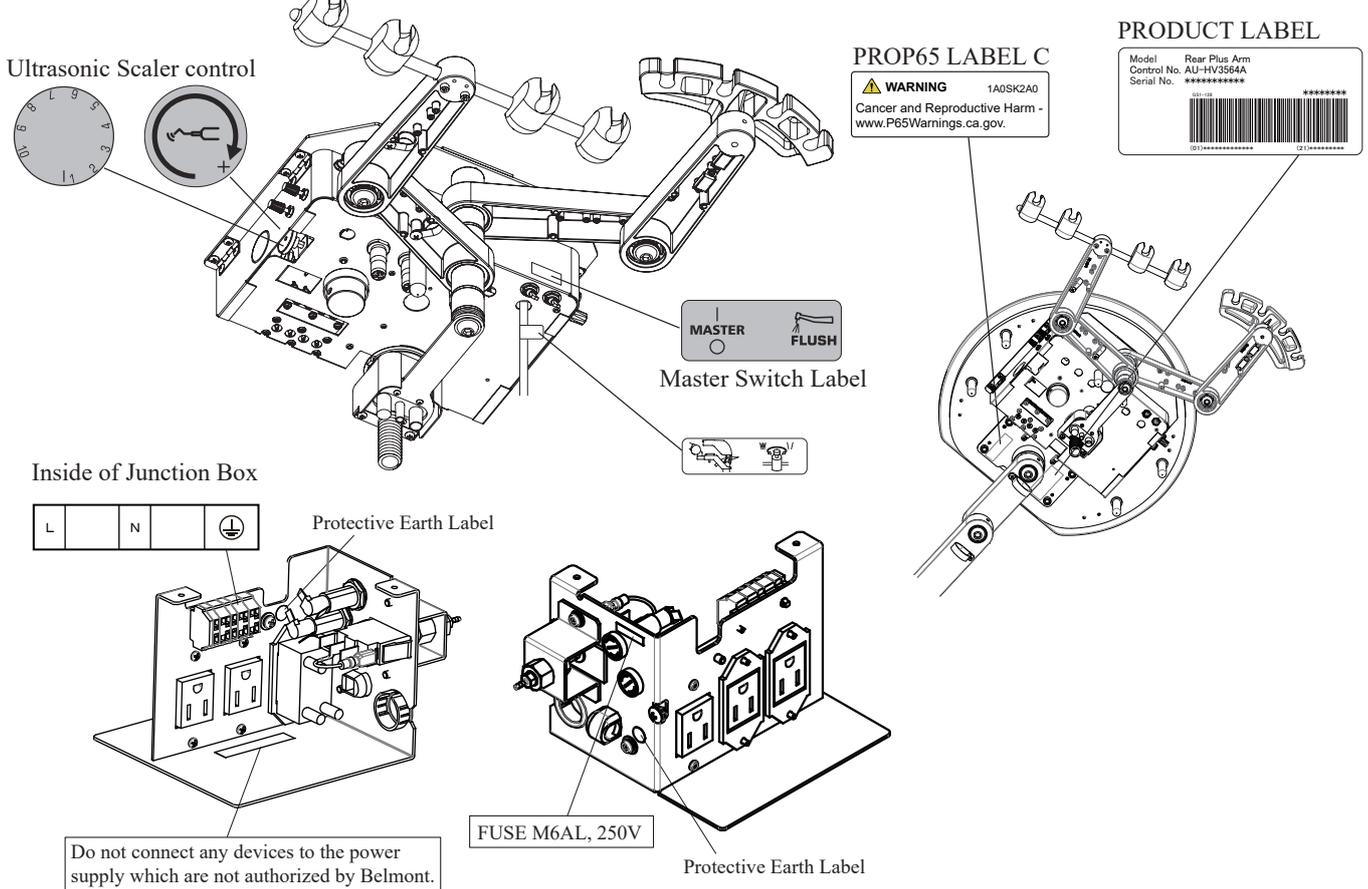
LOCATION OF THE LABELS

Rear Delivery System

Labels are located on the product as below.



Using with Arm for Rear Cabinet



OPERATING INSTRUCTIONS

1. Doctor Table Section

1-1. Master Switch

Turn on the master switch located under the doctor table.

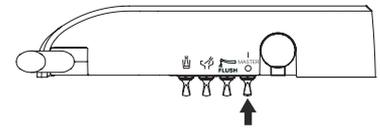
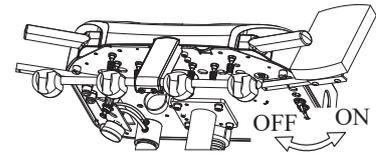


Turn off the master switch after daily operation and for long term intervals when product is not being used. Be sure to operate switches with your hands. If operate with other than hands, it may cause damage or incorrect operation.

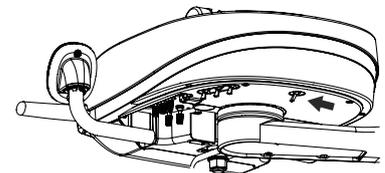
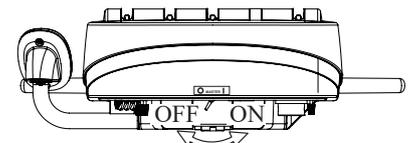
Confirm that the master switch is set to the ON position when in use and to the OFF position when not in use. If product does not function properly in any way, please stop using product and contact an authorized Belmont dealer.

Confirm that all of the handpieces are correctly set at the handpiece holders. If a handpiece is not set correctly, this may cause unexpected rotation of a handpiece. If a handpiece can't be set correctly, stop using the unit and contact an authorized Belmont dealer.

Holder Type, Cart Type



Continental Type



1-2. Chair Seat Positioning Touchpad

(1) Chair Manual Control Switches

1) Seat Raising

Press the (↑) switch until the seat is raised up to the desired position.

2) Seat Lowering

Press the (↓) switch until the seat is lowered to the desired location.

3) Backrest Reclining

Press the (↖) switch until the backrest is reclined to the desired position.

4) Backrest Raising

Press the (↗) switch until the backrest is raised up to the desired position.

(2) Chair Pre-set Switches

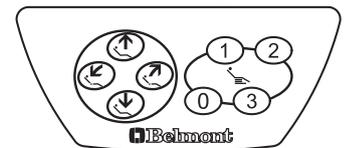
Preset Operation

There are three pre-sets : ① ② ③ . Pre-sets can be selected by momentarily pressing desired switches.

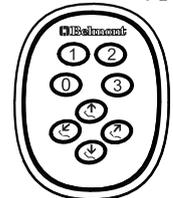
Seat positioning presets can be set by the operator to conveniently position patients for procedures.

(Note:For pre-set position adjustment and auto-return, refer to chair operation manual.)

Holder Type



Continental Type



(3) Chair Auto Return Switch

1) Momentarily press the auto return switch ① the chair returns to the initial position (the seat is the lowest position and the backrest is the upright position).

2) Emergency Stop (Safety Stop)

Pressing any chair control switch while the seat is in motion, automatically stops all.



To avoid the potential for patient and operatory injury :

- Patient must be fully seated on the chair against backrest, with legs and heels on the seat and hands on top of the armrest before chair is operated.
- Operator and assistant must keep feet and hands clear from chair, until patient has been moved into treatment position.

To avoid the potential for damage to chair, delivery system and other furniture :

- Keep area around chair free from objects that might be damaged by chair when it is motion.

OPERATING INSTRUCTIONS

1-3. Handpiece

The handpiece is actuated by picking it up from the handpiece holder and operating the foot control. Operation of the each handpieces, please refer to the manufacturer's instruction manual attached to the individual equipment.

Use the handpieces described in the list of compatible handpieces (page 84) for this unit.

CAUTION

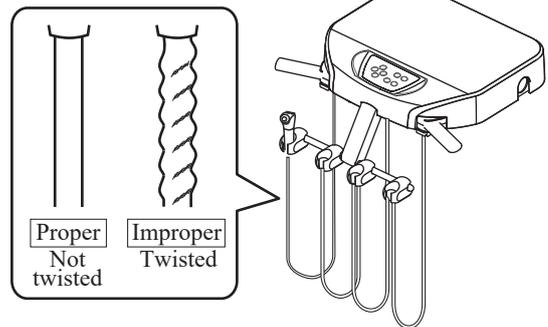
Carefully read the handpieces' operating instruction manuals and related documents attached to each handpiece.

CAUTION

Carefully follow the handpiece manufacturer's installation recommendations.

CAUTION

Repeated actions of picking up and returning the handpiece may cause its hose twisted. Check the hose periodically to see if it is not twisted. If twisted, unwind it before use. Continual use of the handpiece with its hose twisted will cause the kinks in the hose or breaking of the wire, making the handpiece unusable.



1-4. Fiber optic Light (Option)

The handpiece light will be activated by picking up a handpiece and by pressing a foot control. To use the handpiece light, you need to have an optional light pack and a handpiece with fiber optic light. You can use up to two handpieces with fiber optic light.

OPERATING INSTRUCTIONS

1-5. Cupfill and Bowl Flush

These switches are included only on models with cuspidors.
(May be sold as an option in certain countries.)

(1) Cupfiller switch

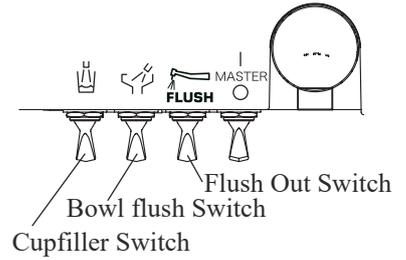
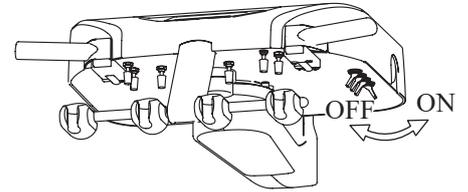
Turn on the switch to supply water to cup from the cupfiller nozzle. Water is supplied while the switch is on.

(2) Bowl flush switch

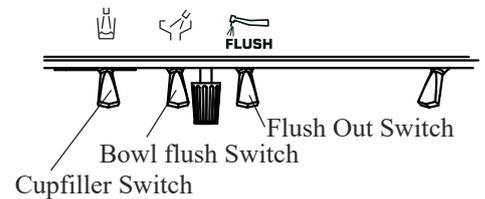
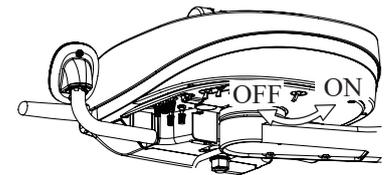
Turn on the switch to supply water from the bowl flush nozzle to clean the cuspidor bowl.
Flush water is supplied for certain period of time.

Confirm that the cupfiller nozzle and the bowl flush nozzle are properly positioned.

Holder Type



Continental Type



1-6. Flush Out

Turn on the switch to supply water to flush out the handpiece water.
(See details at page 57)

OPERATING INSTRUCTIONS

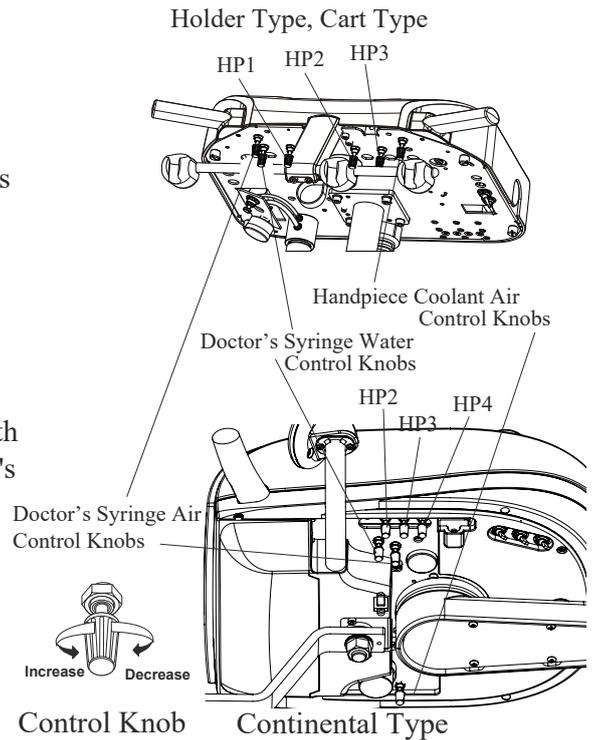
1-7. Doctor Table Section Controls

(1) Handpiece Spray Water Control Knobs

The handpiece coolant water control knobs and coolant Air are located underneath the doctor table. Each handpiece coolant water control knob is identified as number 1 to 3 from the left side HP1, HP2 and HP3. The handpiece coolant water volume can be controlled independently.

(2) Doctor's Syringe Flow Control Knobs

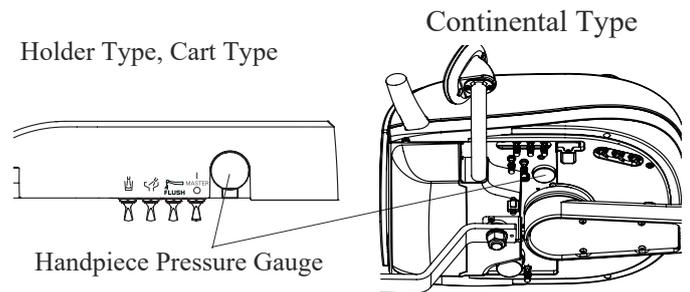
Doctor's syringe flow control knobs are located underneath the doctor table. The flow control knobs adjust the doctor's syringe air and water flow volume. The yellow capped knob is the air flow control knob, the blue capped knob is the water flow control knob. Turning the control knob counterclockwise will increase the flow volume and turning clockwise will decrease.



Note) Evogue Unit does not include syringe tips. Syringe tips manufactured by DCI are compatible with this device.

1-8. Handpiece pressure Gauge

Handpiece drive air pressure gauge is located in the doctor table. While a handpiece is working, the handpiece drive air pressure is indicated on the handpiece pressure gauge.

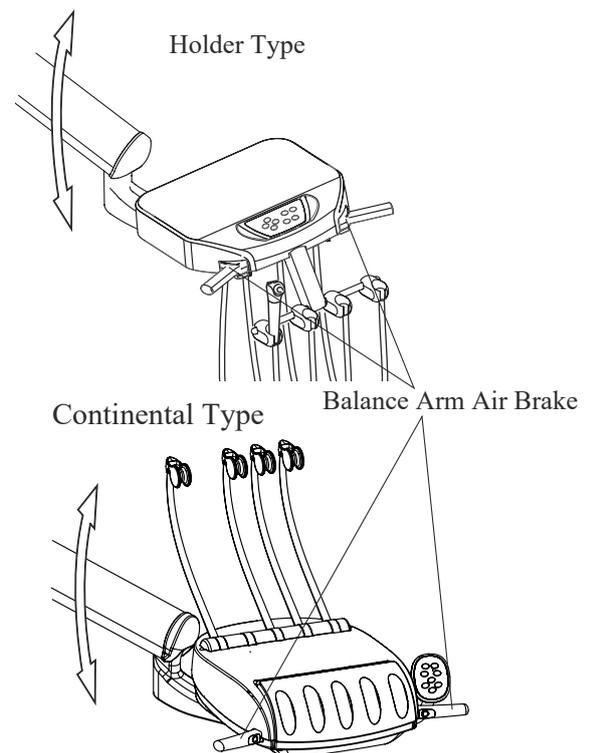


1-9. Balance Arm Air Brake

Balance arm air brake buttons are located on the handle. Grasp the handle and press the air brake button to release brake and adjust the table height. Release the air brake button at the desired table position and the balance arm position will be locked.

WARNING

Do not place objects weighing 4.40 pounds or more on the Doctor's table. This could cause damage to the Doctor's table, defective function or accidents.



OPERATING INSTRUCTIONS

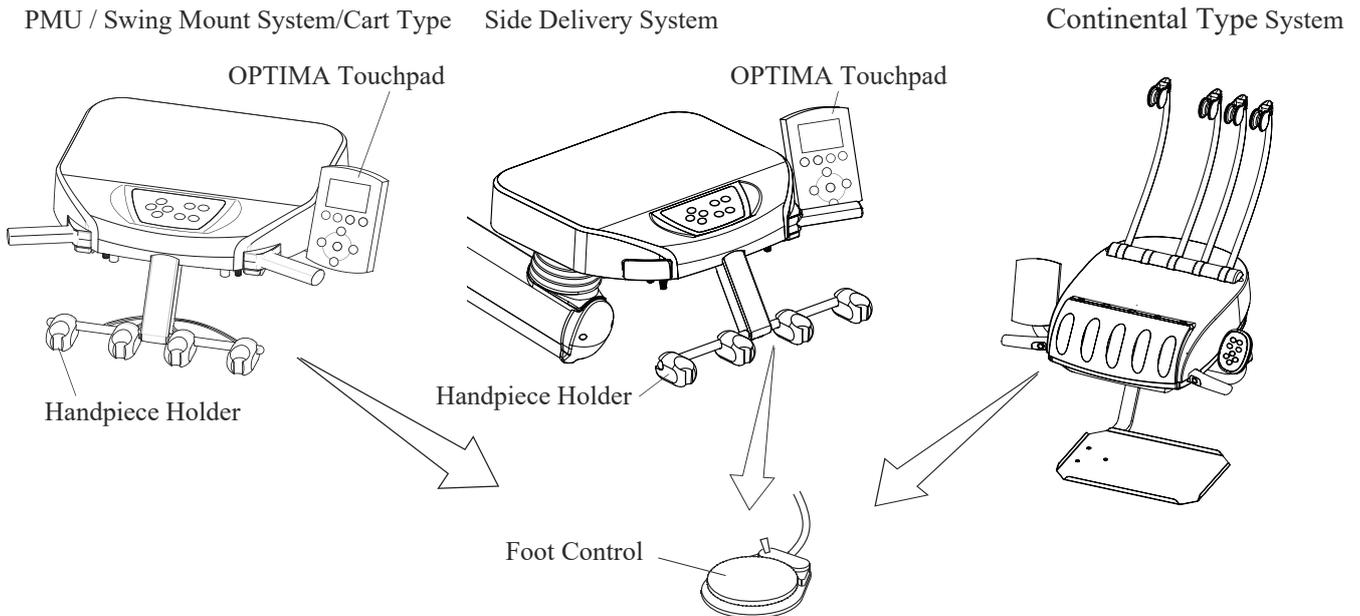
1-10. Micromotor (Optional)

This unit can be equipped with Bien Air's micromotor model MXII OPTIMA Touchpad.

It can be operated by following steps;

- (1) Pick-up the micromotor from the handpiece holder
- (2) Select operating mode by Touchpad
- (3) Depress the Foot Control

For details, please refer to Operation Manual of MXII OPTIMA.



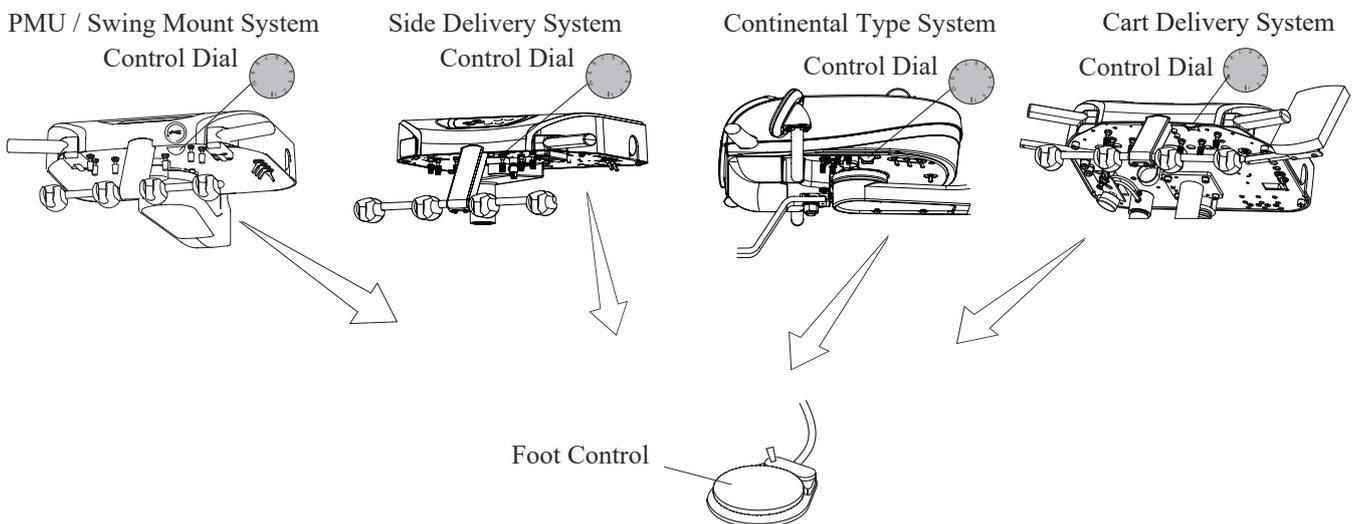
1-11. Ultrasonic Scaler (Optional)

This unit can be equipped with DENTSPLY CAVITRON and SATELEC SP NEWTRON ultrasonic scalers.

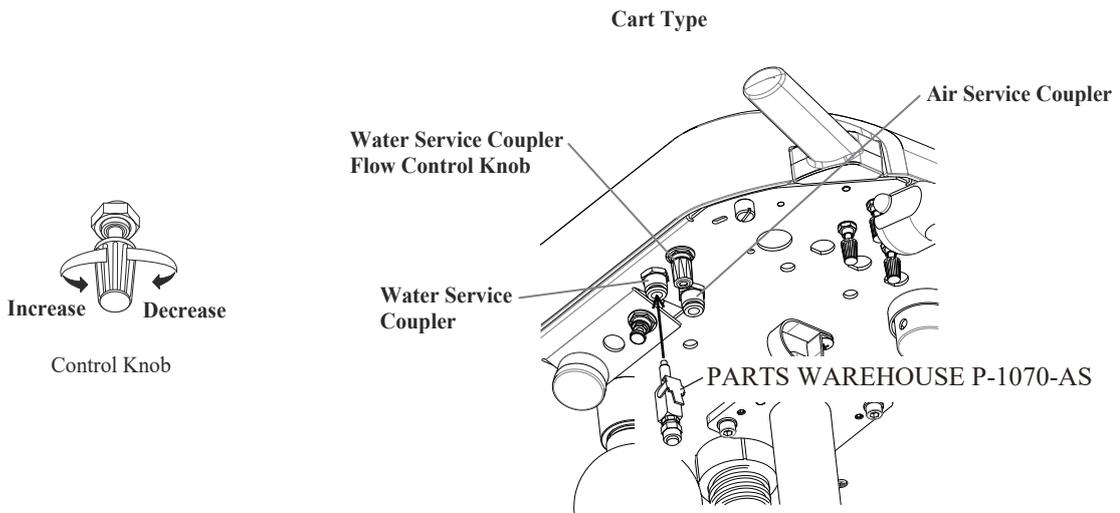
It can be operated by following steps;

- (1) Pick-up the scaler on the handpiece holder
- (2) Adjust the power by the control dial
- (3) Depress the Foot Control

For details, please refer to Operation Manual of each scaler.



OPERATING INSTRUCTIONS



1-12. Water Service Coupler (Cart Type Optional)

The water service coupler provides a quick-connection and flow control for water. You can connect PARTS WAREHOUSE P-1070-AS to the service coupler.

1-13. Water Service Coupler Flow Control Knob (Cart Type Optional)

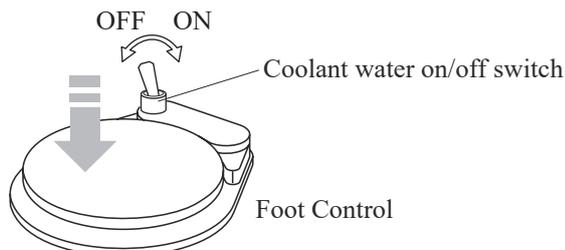
Outlet water volume can be adjusted by the service coupler flow control knob. Turning the knob counterclockwise increase the flow volume and turning clockwise decrease the volume.

1-14. Air Service Coupler (Cart Type Optional)

Service air outlet provides a quick-connection for air. You can connect PARTS WAREHOUSE P-1070-AS to the service coupler.

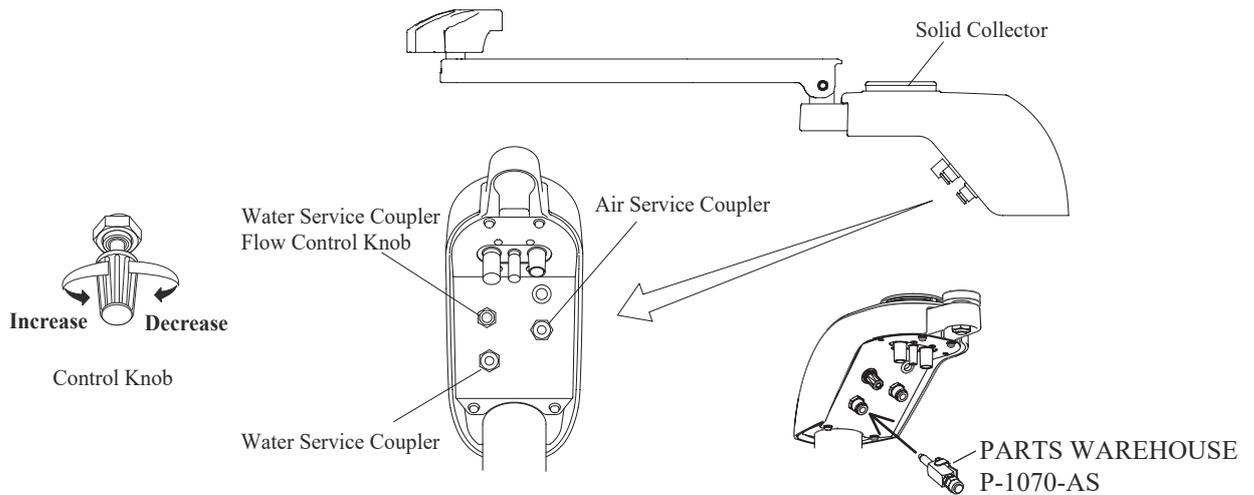
2. Foot Control Section

Pick up a handpiece from the handpiece holder and depress the foot control, the handpiece will start running. Put the coolant water on/off switch on, then water will be supplied when the handpiece runs.



OPERATING INSTRUCTIONS

3. Vac Pac Section (Assistant Instruments)



3-1. Water Service Coupler

The water service coupler provides a quick-connection and flow control for water. You can connect PARTS WAREHOUSE P-1070-AS to the service coupler.

3-2. Water Service Coupler Flow Control Knob

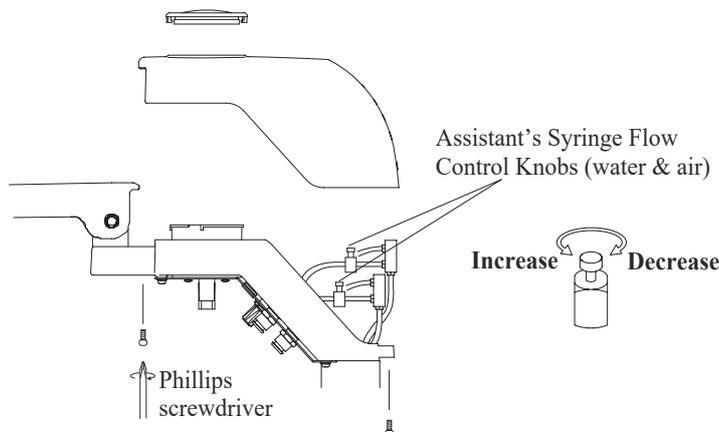
Outlet water volume can be adjusted by the service coupler flow control knob. Turning the knob counterclockwise increase the flow volume and turning clockwise decrease the volume.

3-3. Air Service Coupler

Service air outlet provides a quick-connection for air. You can connect PARTS WAREHOUSE P-1070-AS to the service coupler.

3-4. Assistant's Syringe Flow Control Knobs

Assistant's syringe flow control knobs are located inside the Vac Pac utility center. Turning the knob counterclockwise increase the flow volume and turning clockwise decrease the volume.



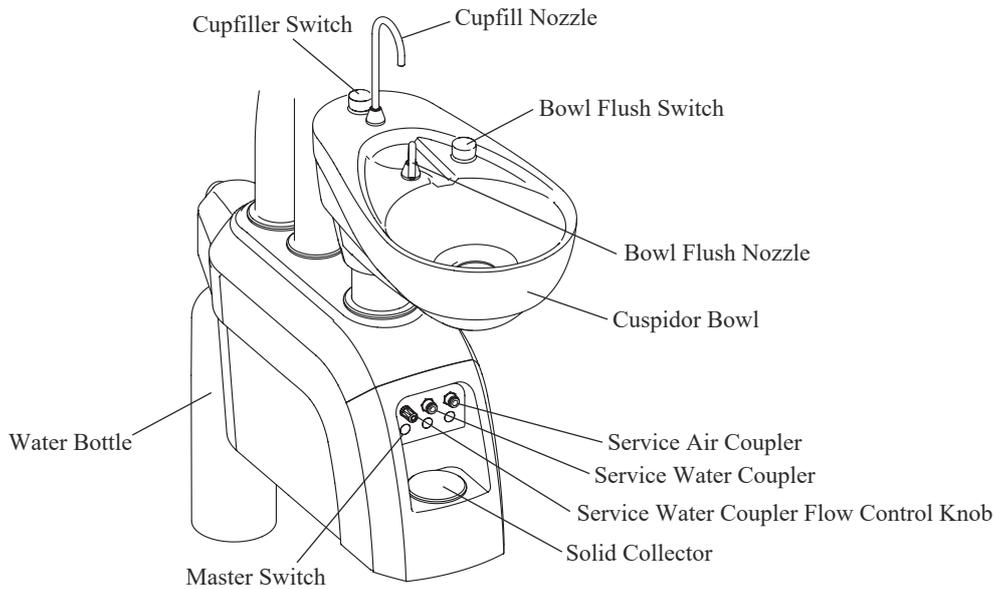
Note) Evogue Unit does not include syringe tips. Syringe tips manufactured by DCI are compatible with this device.

NOTICE

Please be careful when connecting the insert PARTS WAREHOUSE P-1070-AS to the water coupler. Water comes out at the exact moment of inserting.

OPERATING INSTRUCTIONS

4. Cuspidor Section (Cuspidor with Assistant Instruments)



4-1. Master Switch (available only for the system without Doctor Table section)

Turn on the Master Switch located in front of the Cuspidor.

CAUTION

Turn off the Master Switch after daily operation and for long term intervals when product is not being used. Be sure to operate switches with you hands. If operate with other than hands, it may cause damage or incorrect operation.

4-2. Water Service Coupler

The water service coupler provides a quick-connection and flow control for water. You can connect PARTS WAREHOUSE P-1070-AS to the service coupler.



4-3. Water Service Coupler Control Knob

Outlet water volume can be adjusted by the service coupler flow control knob.

Turning the knob counterclockwise will increase the flow volume and turning clockwise will decrease flow.

4-4. Air Service Coupler

Service air outlet provides a quick-connection for air.

4-5. Solid Collector

Solid Collector separates solids from water. (See page 65)

4-6. Water Bottle

Water Bottle is provided for clean water system. (See page 56)

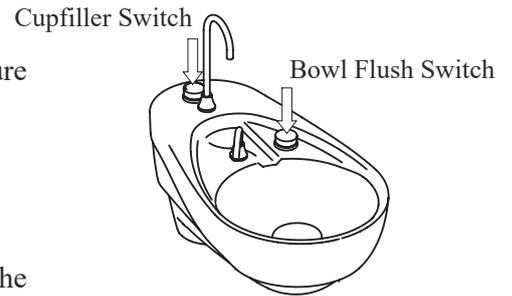
NOTICE

Please be careful when connecting the insert PARTS WAREHOUSE P-1070-AS to the water coupler. Water comes out at the exact moment of inserting.

OPERATING INSTRUCTIONS

4-7. Cupfiller Switch

Water is supplied while the cupfiller switch is depressed. Make sure that a cup is correctly placed. Confirm that the cupfill nozzle is properly positioned.

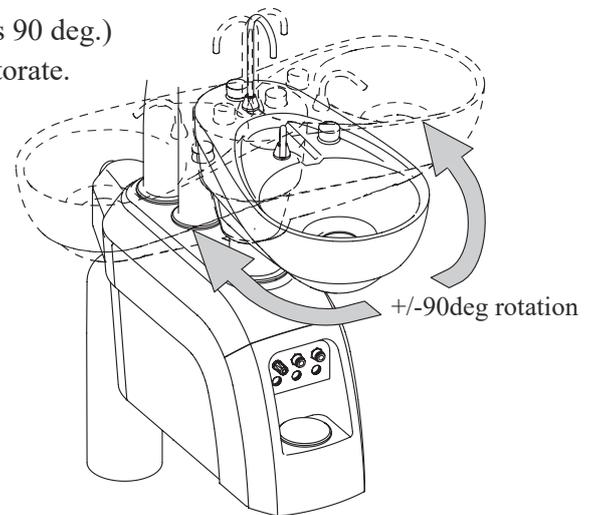


4-8. Bowl Flush Switch

Once the bowl flush switch is pressed, water will come out from the bowl flush nozzle for a certain period of time. Confirm that the cupfill nozzle is properly positioned.

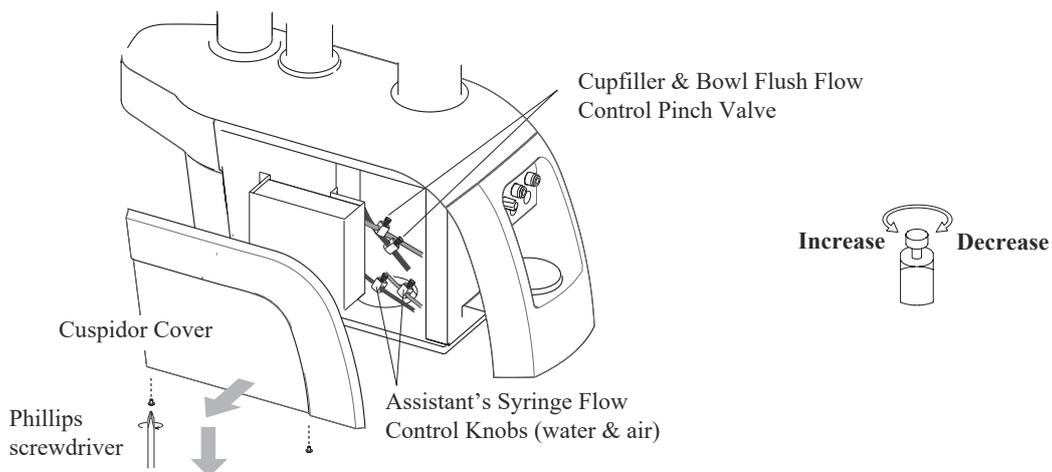
4-9. Spittoon Bowl Rotation

Spittoon Bowl rotate 180 deg. (inwards 90 deg., outwards 90 deg.) manually so that a patient can easily reach bowl to expectorate.



4-10. Water and air flow control

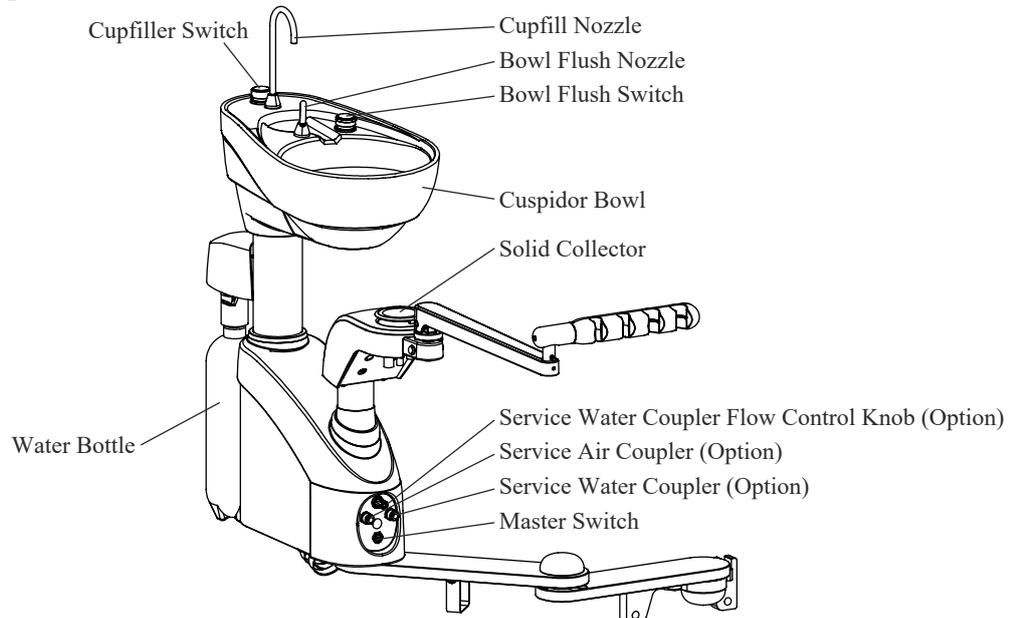
Cupfiller, bowl flush and assistant's syringe flow-control pinch valves are located inside the cuspidor. Open the cuspidor side cover by loosening the screws. Adjust the water and air flow by the pinch valves.



Note) Evogue Unit does not include syringe tips. Syringe tips manufactured by DCI are compatible with this device.

OPERATING INSTRUCTIONS

5. Left-Right Cuspidor Section



5-1. Master Switch (available only for the system without Doctor Table section)

Turn on the Master Switch located in front of the Cuspidor.

CAUTION

Turn off the Master Switch after daily operation and for long term intervals when product is not being used. Be sure to operate switches with you hands. If operate with other than hands, it may cause damage or incorrect operation.

5-2. Water Service Coupler (Option)

The water service coupler provides a quick-connection and flow control for water. You can connect PARTS WAREHOUSE P-1070-AS to the service coupler.



5-3. Water Service Coupler Control Knob (Option)

Outlet water volume can be adjusted by the service coupler flow control knob.

Turning the knob counterclockwise will increase the flow volume and turning clockwise will decrease flow.

5-4. Air Service Coupler (Option)

Service air outlet provides a quick-connection for air.

5-5. Solid Collector

Solid Collector separates solids from water. (See page 65)

5-6. Water Bottle (available only for the system without Doctor Table section)

Water Bottle is provided for clean water system. (See page 56)

NOTICE

Please be careful when connecting the insert PARTS WAREHOUSE P-1070-AS to the water coupler. Water comes out at the exact moment of inserting.

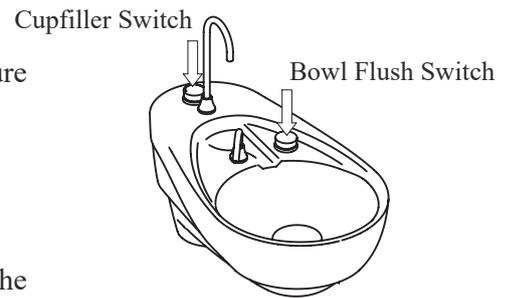
OPERATING INSTRUCTIONS

5-7. Cupfiller Switch

Water is supplied while the cupfiller switch is depressed. Make sure that a cup is correctly placed. Confirm that the cupfill nozzle is properly positioned.

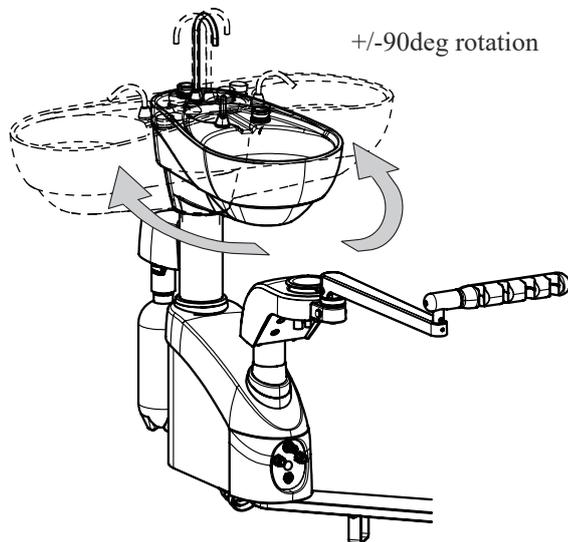
5-8. Bowl Flush Switch

Once the bowl flush switch is pressed, water will come out from the bowl flush nozzle for a certain period of time. Confirm that the cupfill nozzle is properly positioned.



5-9. Spittoon Bowl Rotation

Spittoon Bowl rotate 180 deg. (inwards 90 deg., outwards 90 deg.) manually so that a patient can easily reach bowl to expectorate.



Note) Evogue Unit does not include syringe tips. Syringe tips manufactured by DCI are compatible with this device.

OPERATING INSTRUCTIONS

6. Rear Delivery Section

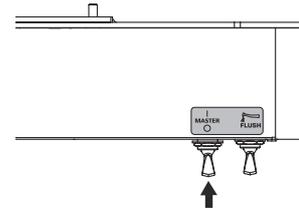
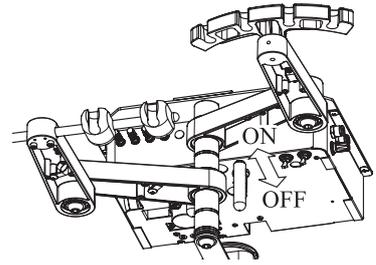
6-1. Master Switch

Turn on the master switch located under the doctor table.

CAUTION

Turn off the master switch after daily operation and for long term intervals when product is not being used. Be sure to operate switches with your hands. If operate with other than hands, it may cause damage or incorrect operation.

Confirm that the master switch is set at outside position. Confirm that all of the handpieces are correctly set at the handpiece holders. If a handpiece is not set correctly, this may cause unexpected rotation of a handpiece. If a handpiece can't be set correctly, stop using the unit and contact our dealer or us.



6-2. Handpiece

The handpiece is actuated by picking it up from the handpiece holder and operating the foot controller. Operation of the each handpieces, please refer to the manufacturer's instruction manual attached to the individual equipment.

Use the handpieces described in the list of compatible handpieces (page 84) for this unit.

CAUTION

Carefully read the handpieces' operating instruction manuals and related documents attached to each handpiece.

CAUTION

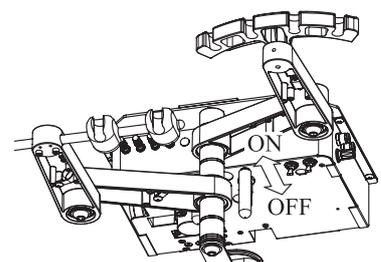
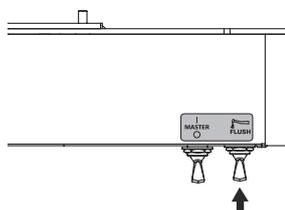
Carefully follow the handpiece manufacturer's installation recommendations.

6-3. Fiber optic Light (Option)

The handpiece light will be activated by picking up a handpiece and by pressing a foot controller. To use the handpiece light, you need to have an optional light pack and a handpiece with fiber optic light. You can use up to two handpieces with fiber optic light.

6-4. Flush Out

Turn on the switch to supply water to flush out the handpiece water. (See details at page 57)



OPERATING INSTRUCTIONS

6-5. Rear Delivery Section Controls

(1) Handpiece Spray Water Control Knobs

The handpiece coolant water control knobs and coolant Air are located underneath the doctor table.

Each handpiece coolant water control knob is identified as number 1 to 3 from the left side HP1, HP2 and HP3.

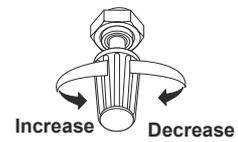
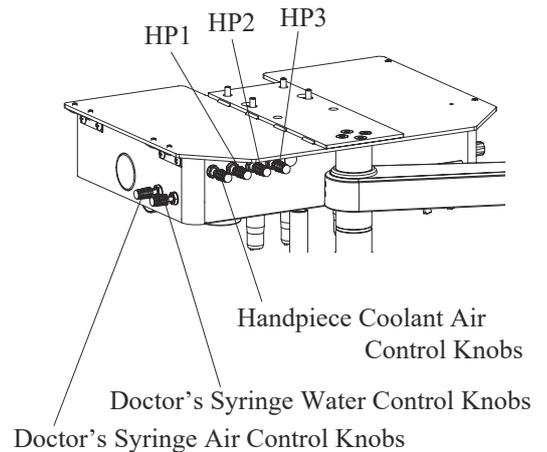
The handpiece coolant water volume can be controlled independently.

(2) Doctor's Syringe Flow Control Knobs

Doctor's syringe flow control knobs are located underneath the doctor table. The flow control knobs adjust the doctor's syringe air and water flow volume.

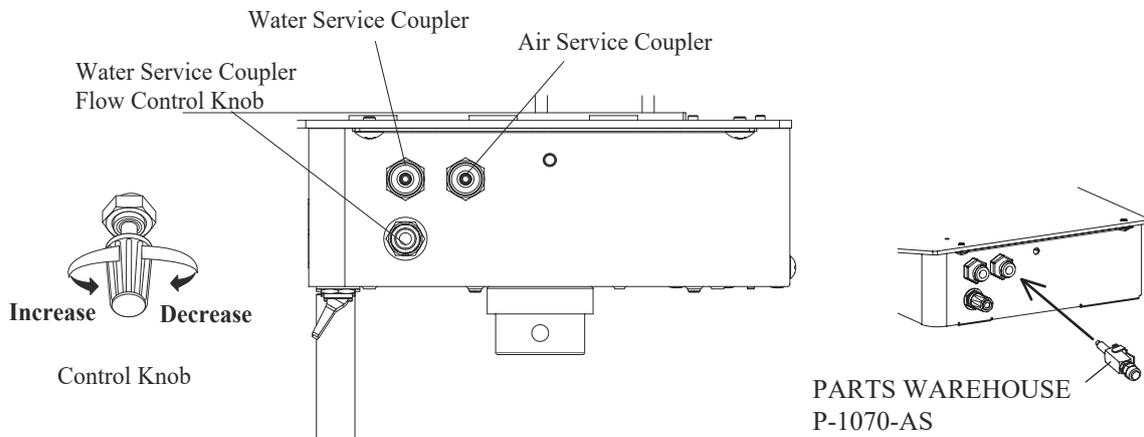
The yellow capped knob is the air flow control knob, the blue capped knob is the water flow control knob.

Turning the control knob counterclockwise will increase the flow volume and turning clockwise will decrease.



Control Knob

Note) Evogue Unit does not include syringe tips. Syringe tips manufactured by DCI are compatible with this device.



6-6. Water Service Coupler

The water service coupler provides a quick-connection and flow control for water.

You can connect PARTS WAREHOUSE P-1070-AS to the service coupler.

6-7. Water Service Coupler Flow Control Knob

Outlet water volume can be adjusted by the service coupler flow control knob. Turning the knob counterclockwise increase the flow volume and turning clockwise decrease the volume.

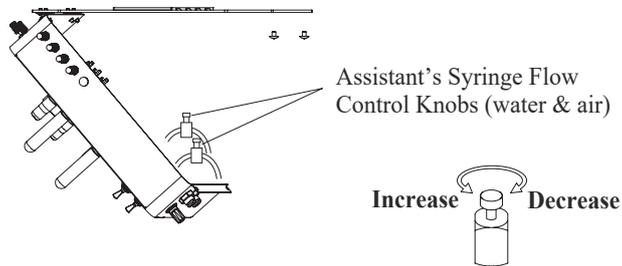
6-8. Air Service Coupler

Service air outlet provides a quick-connection for air. You can connect PARTS WAREHOUSE P-1070-AS to the service coupler.

OPERATING INSTRUCTIONS

6-9. Assistant's Syringe Flow Control Knobs

Assistant's syringe flow control knobs are located inside the Vac Pac utility center. Turning the knob counterclockwise increase the flow volume and turning clockwise decrease the volume.



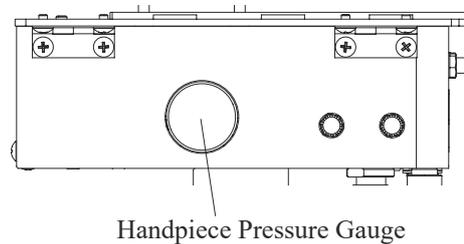
Note) Evogue Unit does not include syringe tips. Syringe tips manufactured by DCI are compatible with this device.

NOTICE

Please be careful when connecting the insert PARTS WAREHOUSE P-1070-AS to the water coupler. Water comes out at the exact moment of inserting.

6-10. Handpiece pressure Gauge

Handpiece drive air pressure gauge is located in the doctor table. While a handpiece is working, the handpiece drive air pressure is indicated on the handpiece pressure gauge.



OPERATING INSTRUCTIONS

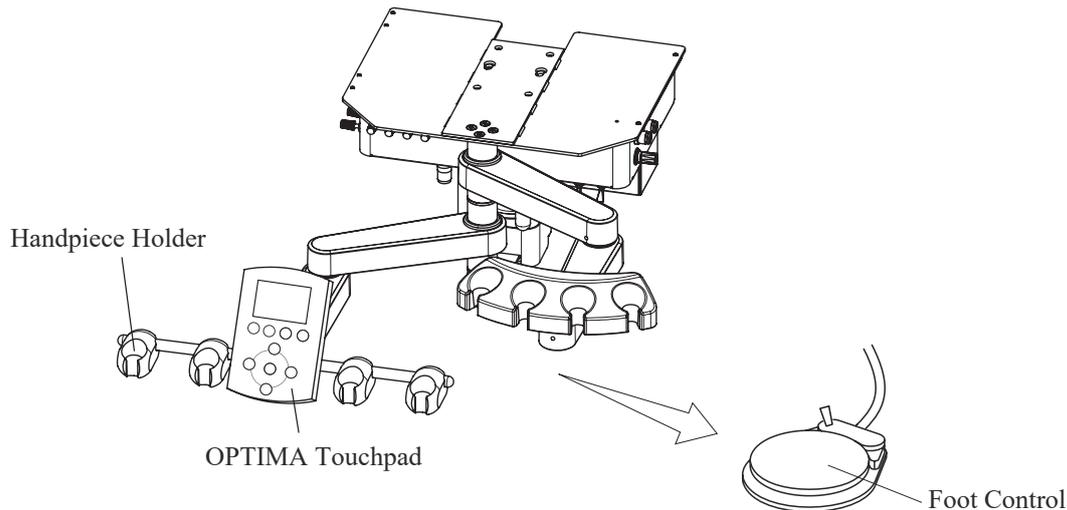
6-11. Micromotor (Optional)

This unit can be equipped with Bien Air's micromotor model MXII OPTIMA Touchpad.

It can be operated by following steps;

- (1) Pick-up the micromotor from the handpiece holder
- (2) Select operating mode by Touchpad
- (3) Depress the Foot Control

For details, please refer to Operation Manual of MXII OPTIMA.



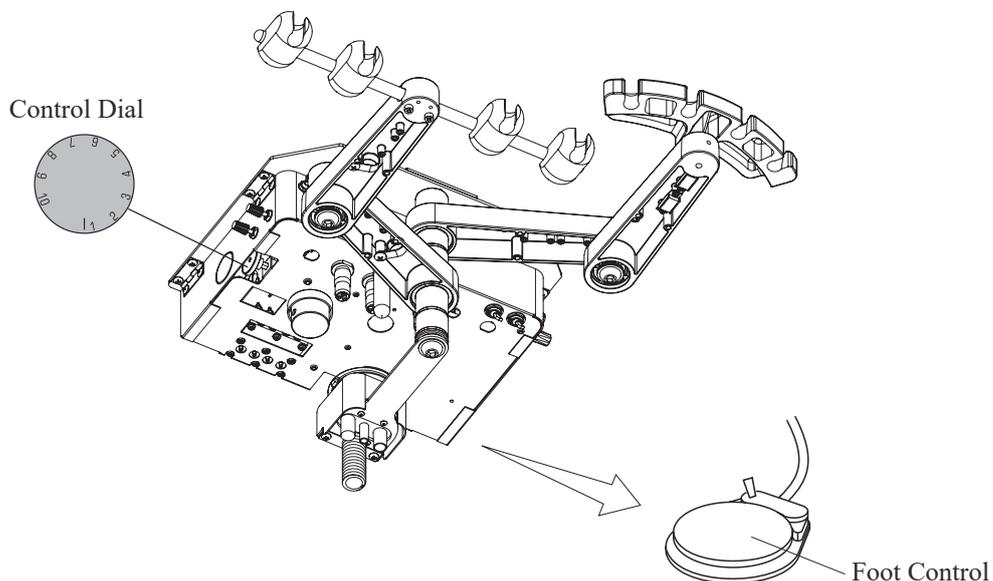
6-12. Ultrasonic Scaler (Optional)

This unit can be equipped with DENTSPLY CAVITRON and SATELEC SP NEWTRON ultrasonic scalers.

It can be operated by following steps;

- (1) Pick-up the scaler on the handpiece holder
- (2) Adjust the power by the control dial
- (3) Depress the Foot Control

For details, please refer to Operation Manual of each scaler.

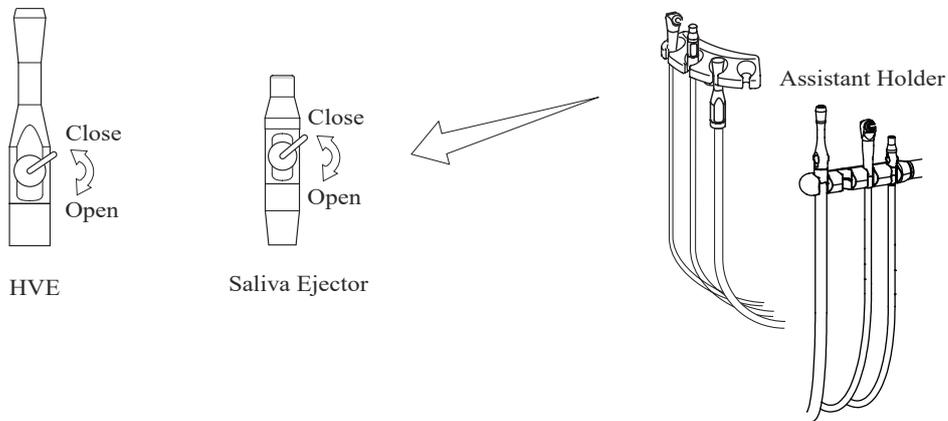


OPERATING INSTRUCTIONS

7. HVE and Saliva Ejector

Pick up HVE and/or Saliva Ejector from the Assistant holder.

HVE and Saliva Ejector have a lever to open/close the valve and adjust suction power.

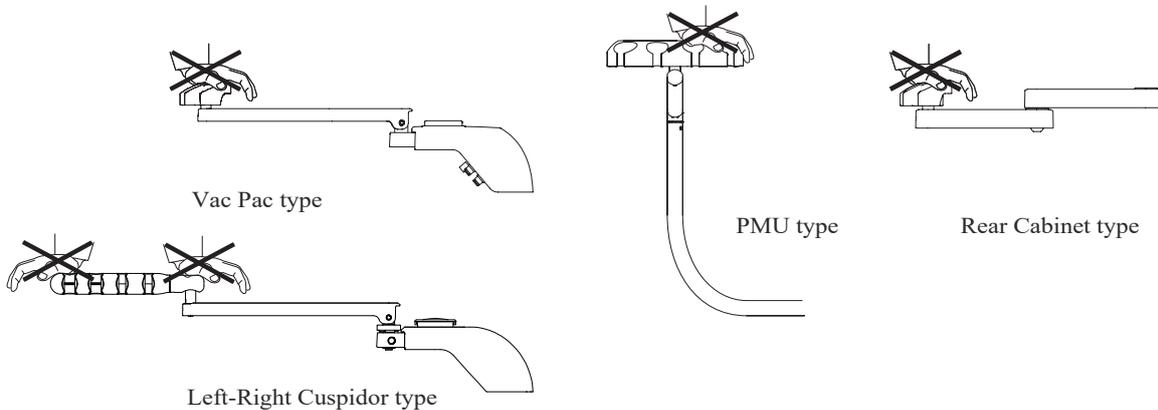


HVE / Saliva Ejector Tip Connections

- HVE : 0.433" (11mm) diameter opening
- Saliva Ejector : 0.257" (6.5mm) diameter opening

⚠ CAUTION

Do not put strong pressure on the Assistant holder section.



⚠ CAUTION

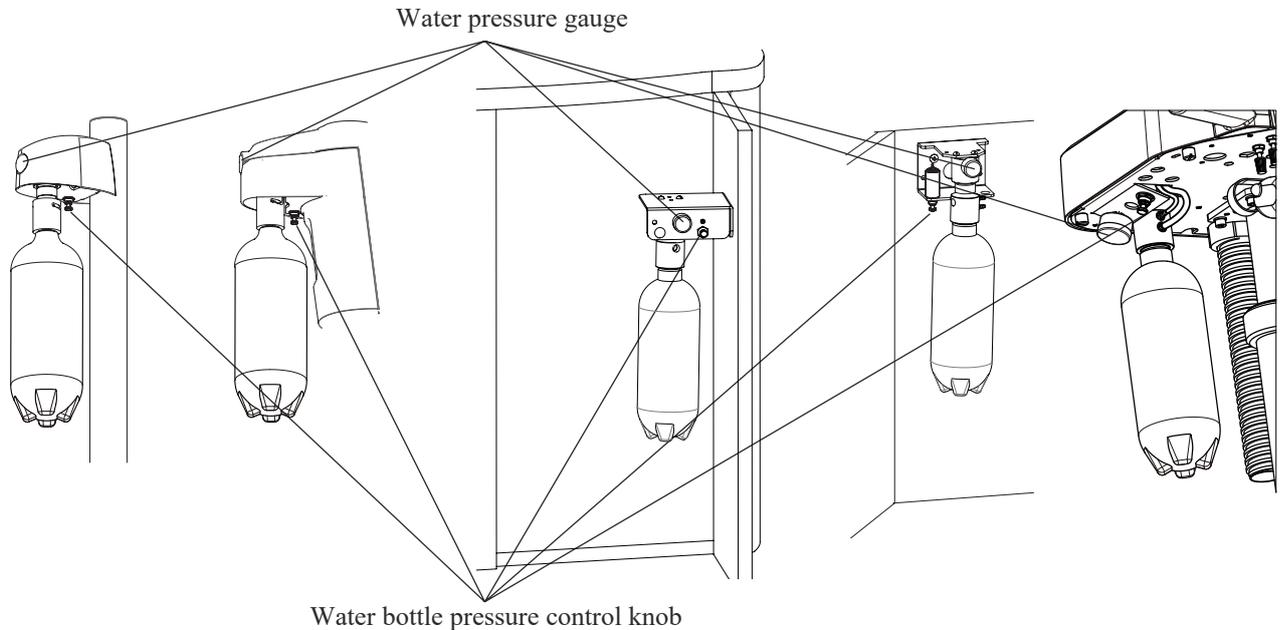
Be sure that the Assistant Holder or the handpieces are not above or below chair backrest. If holder comes into contact with a moving chair backrest product and upholstery damage can result. This may cause unexpected injury or accident.

OPERATING INSTRUCTIONS

8. Clean Water System

Purified water, distilled water or pure water is supplied from the water bottle to handpieces and cupfiller. The water bottle pressure control knob adjusts the pressure of water bottle. The pressure increase when the knob is turned clockwise and decrease when the knob is turned counterclockwise.

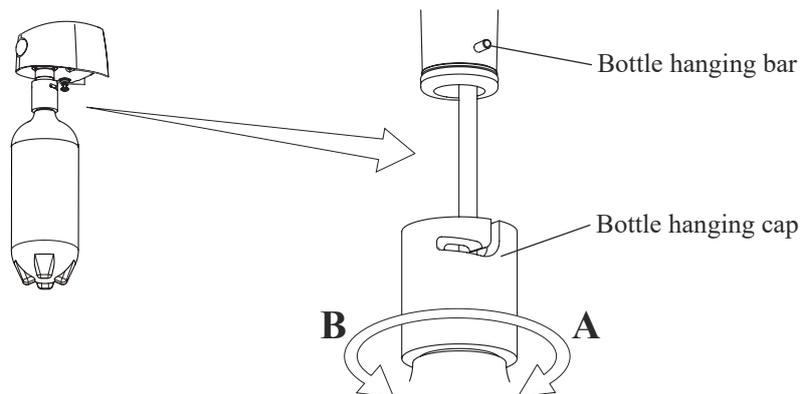
Swing Mount System PMU Mount System Side Delivery System Rear Delivery System Cart Delivery System



• How to connect and disconnect water bottle

To connect: Push the bottle up to catch the bottle hanging bar with the bottle hanging cap then rotate to “A” direction.

To Disconnect: First, make sure to switch off the Master Switch then confirm that the water bottle system pressure gauge reads 0 psi. Second, rotate the bottle to “B” direction in order to release the bottle hanging bar then pull out the bottle down.



⚠ CAUTION

- The water bottle is intended only for use with purified water, distilled water and pure water.
- Do not use mouthwash or electrolyzed water, as they may clog tubing or affect internal valves and equipment.
- Adjust the air supply pressure for the water bottle to 29 psi or less. An excessively high pressure may cause damage to the water bottle and may cause injury.

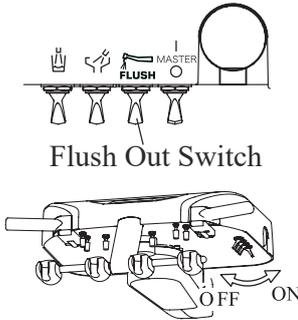
OPERATING INSTRUCTIONS

9. Flush Out

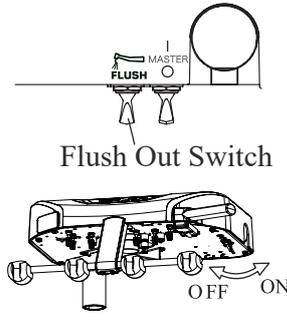
1) Handpiece line

Pick up the handpieces from the holder and set the detaching position (page 58) in a bucket, sink etc. Turn on the flush out switch to flush out the handpiece water for approximately 40 seconds. Eject water from a syringe by pressing the water button

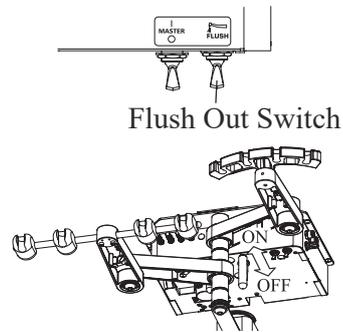
PMU / Swing Mount System



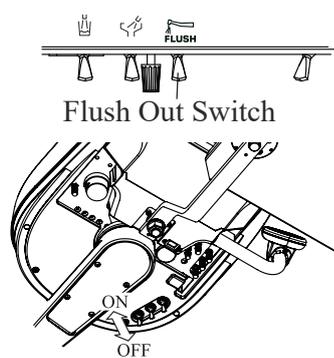
Side Delivery System



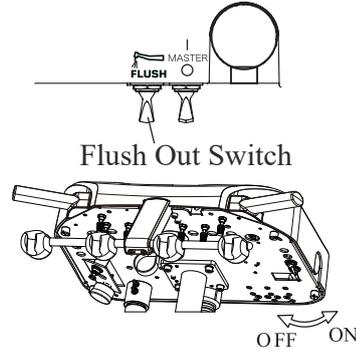
Rear Delivery System



Continental System



Cart Delivery System



Flush-out with the water bottle empty will purge out the water line with pressured air. Several drops of water may come out from a handpiece, this can happen when water is not fully purged from the handpiece hose. This is not a failure. Water dorps stop as water is filled in tubing.

⚠ CAUTION

Perform flush out of the scaler with it attached to the main unit, otherwise, a malfunction may occur.

2) Cuspidor line

*Cupfiller water

Fill the water in the cup by the cupfill switch, then drain the water in the bowl to flushing out the cupfiller water.

Repeat it 7 to 8 times.

*Syringe

Pick up the Syringe then push the button of the Syringe water to flush out the Syringe water.

3) Vac Pac line

*Syringe

Pick up the Syringe then push the button of the Syringe water to flush out the Syringe water.

4) Rear Delivery line

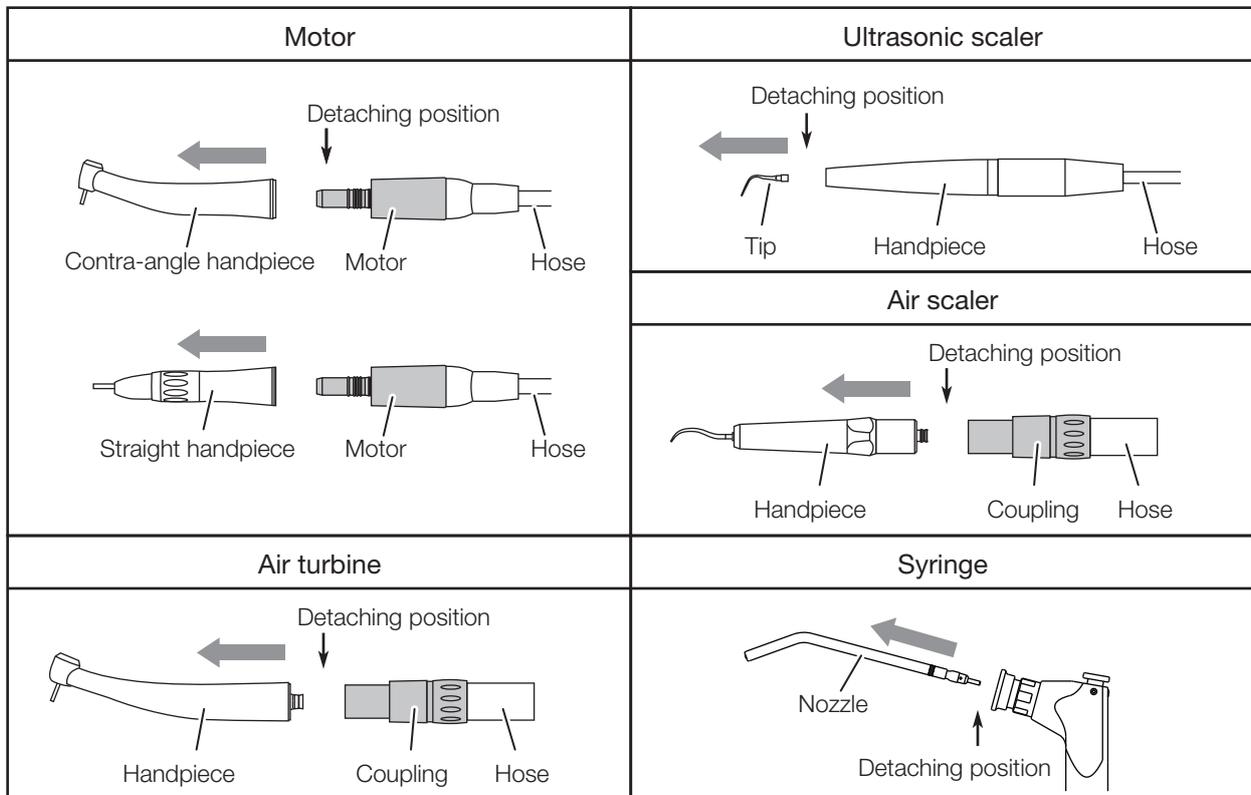
*Syringe

Pick up the Syringe then push the button of the Syringe water to flush out the Syringe water.

OPERATING INSTRUCTIONS

Preparing handpieces/syringe for flushing

Set the right side of the detaching position in the spittoon bowl.



After flushing, wipe the handpiece with a soft cloth to remove excess moisture.

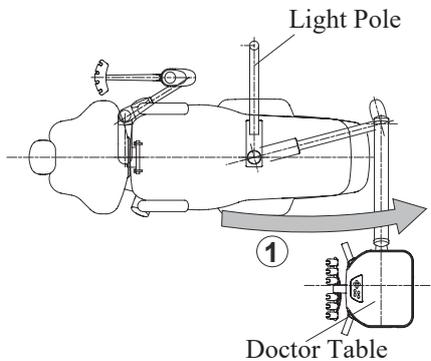
When picking up the handpiece after flushing, remaining air may be discharged. This is normal.

OPERATING INSTRUCTIONS

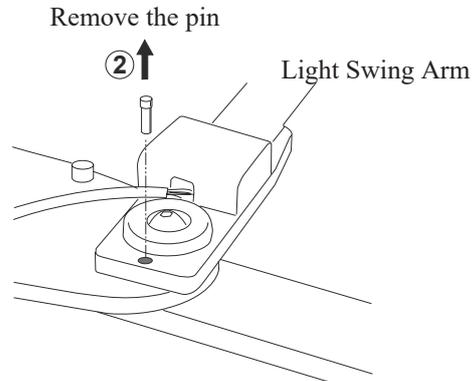
10. Right / Left Handed Dentistry Conversion (Available with Swing Mounted Delivery and Rear Cabinet Delivery)

Swing arms can be positioned on the left and right sides of the chair.

1. Move the doctor table to the following position.

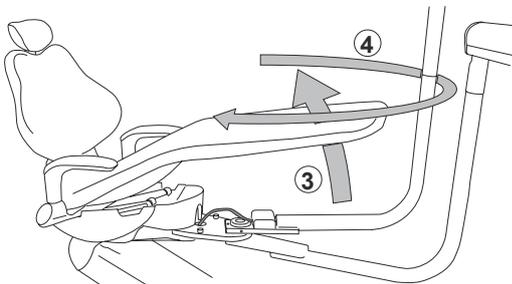


2. For swing arms mounted on Q5500 & Q3300 chairs, remove locking pin on the light swing arm.

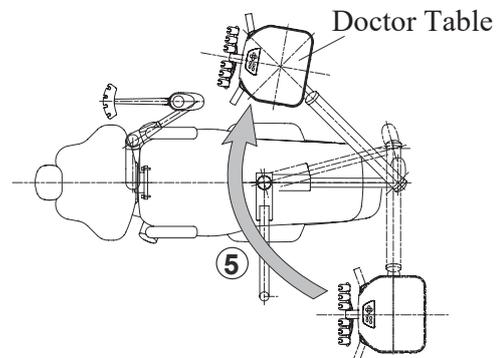


Note :Monitor mount arm does not need the locking pin

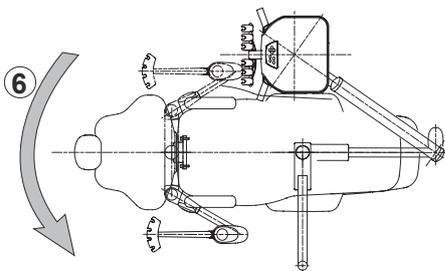
3. Lift the toe board of seat cushion and re-position the light and monitor swing arms on the other side of the chair.



4. Swing the doctor's table to the other side as shown below.



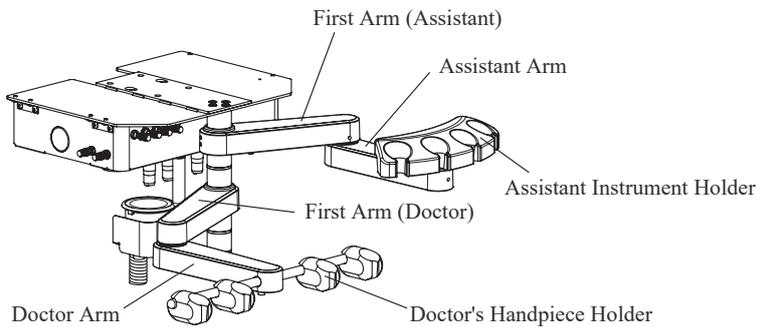
5. Swing the Vac Pac to the other side.



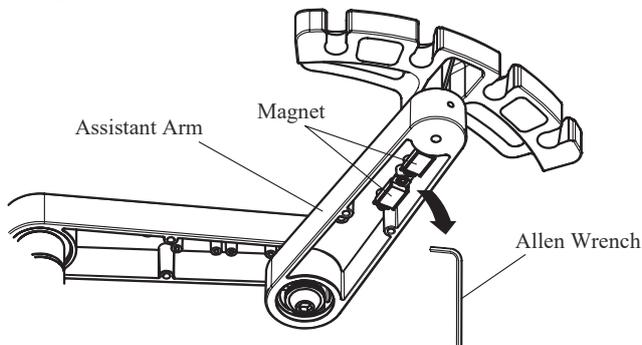
※ The illustration shows the procedure for the Vac Pac type, but the procedure is the same for the Left-Right Cuspidor type.

OPERATING INSTRUCTIONS

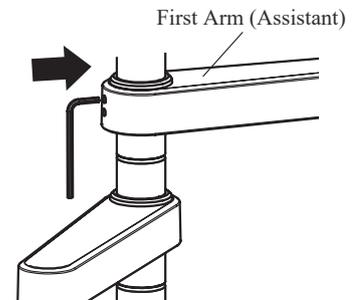
11. Doctor Arm / Assistant Arm Height Adjustment



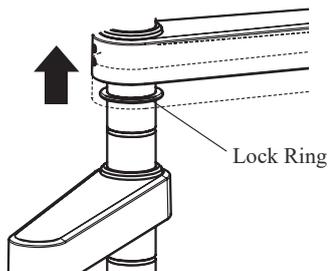
1. Take allen wrench out from underneath the assistant arm. (The allen wrench attached magnetically)



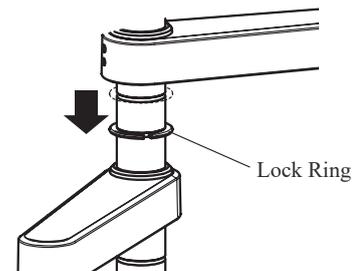
2. Loosen the (2) set screws on the first arm (Assistant) by using allen wrench.



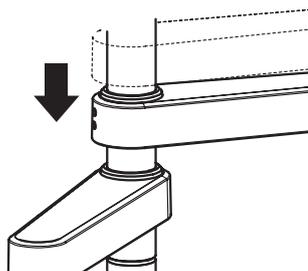
3. Lift up the first arm. (Assistant)



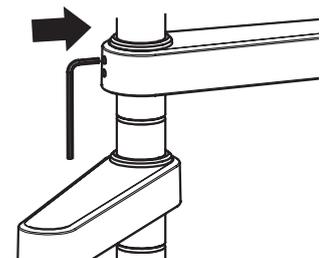
4. Slide down the lock ring.



5. Lower the first arm (Assistant) until arm hits the lock ring.

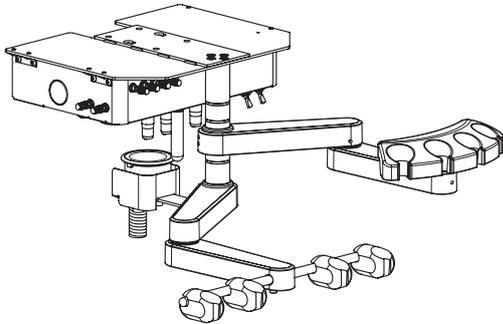


6. Tighten the (2) set screws on the first arm (Assistant) by using allen wrench.

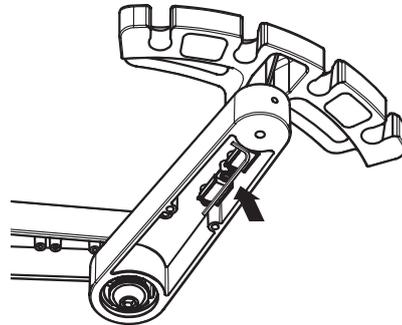


OPERATING INSTRUCTIONS

7. Adjust height of Doctor Arm by following the same procedures shown in 2 ~ 6.



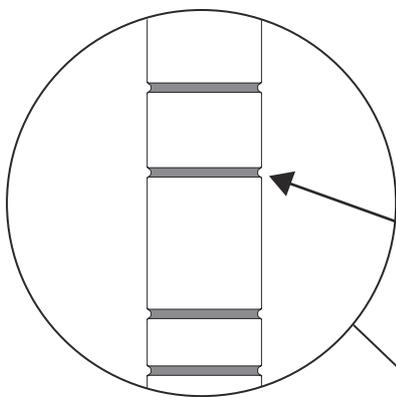
8. Re-attach the allen wrench to underneath the assistant arm.



Note :Arm height can be adjusted at 3 positions.

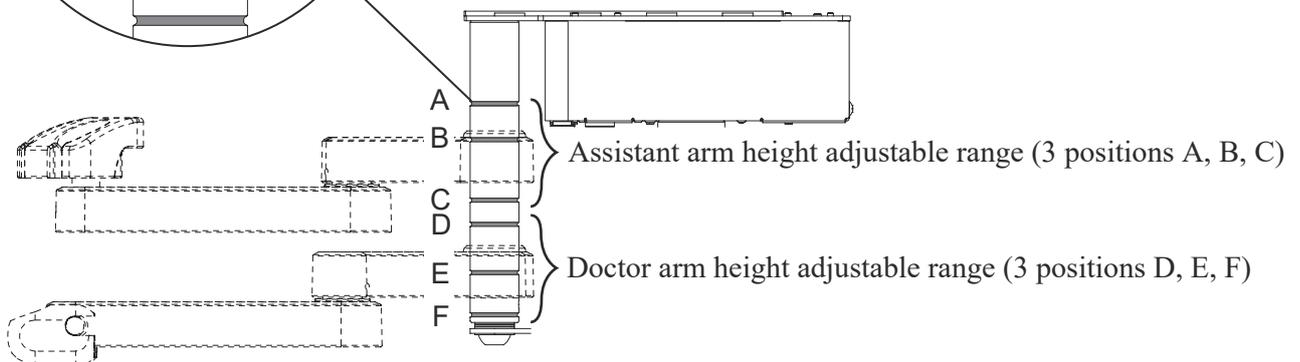
If one of the arms is adjusted, you may need to adjust another arm to avoid interference of arms.

⚠ CAUTION



Groove for lock ring

Combination of arm height by the lock ring positions	
Assistant arm	Doctor arm
A	D, E, F
B	E, F
C	F



Height of doctor arm and assistant arm can be adjusted as described above.

Can not swing both arms left and right correctly when the arms adjusted other than above mentioned and always observe the above combination of arm height for use.

OPERATING INSTRUCTIONS

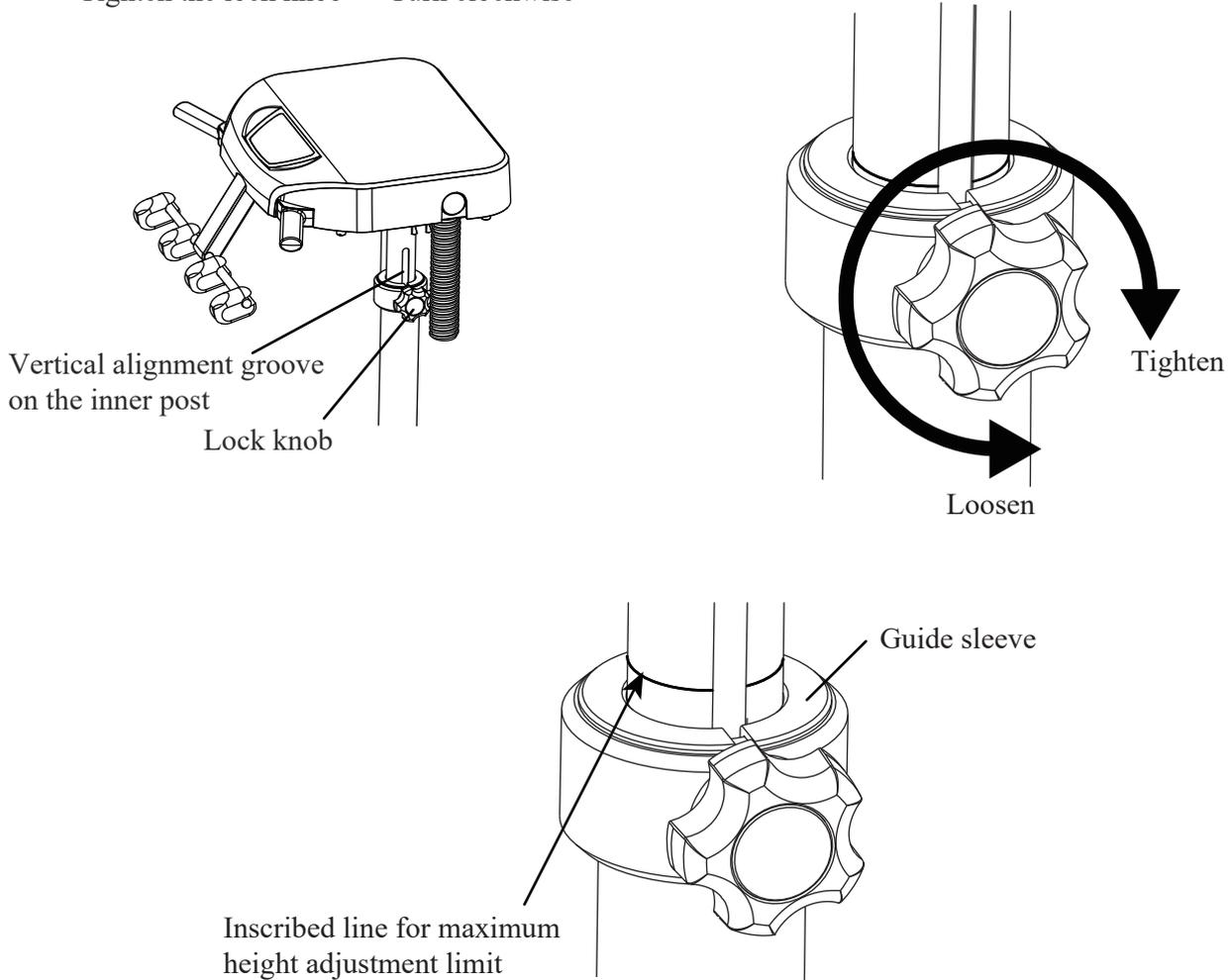
12. Doctor Table Height Adjuster(Cart Delivery System)

To adjust the height of the doctor table, loosen the lock knob while supporting the doctor table and position handpieces at the desired working height, pull it up (down).

After adjusting the height to the desired position, tighten the lock knob securely.

Loosen the lock knob ⇒ Turn counterclockwise

Tighten the lock knob ⇒ Turn clockwise



⚠ CAUTION

- Moving the doctor table upward/downward without loosening the lock knob may cause damage to the product. Be sure to loosen the lock knob first, then move the doctor table upward/downward.
- Be sure locking knob screw is aligned with the vertical alignment groove on the inner post and the notch in the guide sleeve before tightening knob.
- Do not lift doctor table above the inscribed maximum height limit line on post any further if you see a line on the inner post that indicates the height limit.
- Do not remove the lock knob.

OPERATION STOPPING FUNCTION

Chair motion stop function (safety function)

The safety mechanism that inhibits chair motion works while any of the following actions is taken.

- *When any chair operation switch on the chair seat positioning touchpad is depressed during automatic movement of the chair.
- *When safety plate at the back of the cantilever base lift arm makes contact with an object.

CARE AND MAINTENANCE

CAUTION

- * Turn the master switch OFF after daily operation and whenever operator is unattended.
- * Never use sandpaper, metal scrub brushes or abrasive cleaning agents to clean the unit.
- * Do not use strongly acidic cleaning agents or alkaline pipe cleaning agents, which may cause corrosion of metals, etc.

1. Doctor Table Section and Rear Table Section

(1) Doctor Instrument Holder ; Table Top, Chair Seat Positioning Touchpad, Handle, Instrument Holder, Handpiece Hose

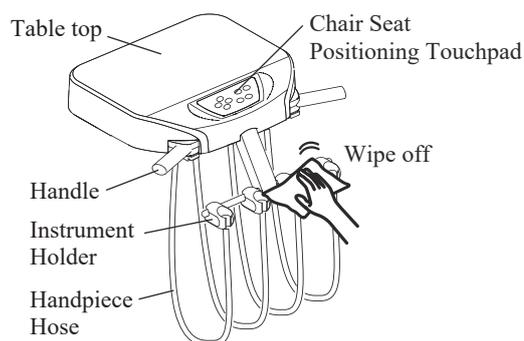
Do NOT spray directly



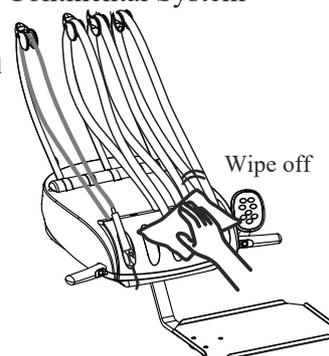
Spray to a soft cloth



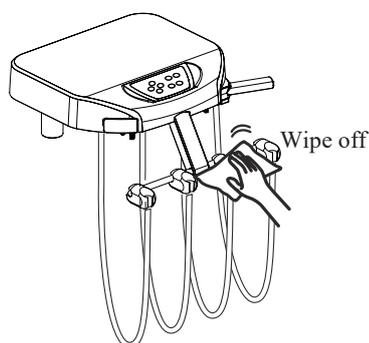
PMU / Swing Mount System/Cart



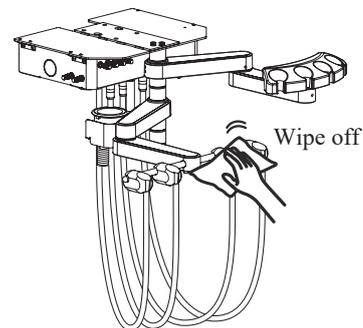
Continental System



Side Delivery System



Rear Delivery System



- Wipe off the surface with soft cloth moistened with cleaner or disinfectant. Wipe off with dry soft cloth to dried up after cleaning and disinfection.
- Use the cleaner and disinfectant OPTIM33TB made by SciCan. Also, read carefully and observe instructions of cleaner or disinfectant before use.

CAUTION

- * Do not spray liquids directly onto the surface of the table section.
- * When the surface of the chair seat positioning touchpad is cleaned with disinfectant, etc., wipe off disinfectant completely. If it penetrates into the back of the sheet, the membrane switches may malfunction.
- * Penetration of droplets of disinfecting spray into the back of the chair seat positioning touchpad may be associated with switch failure. Use a paper towel soaked with disinfecting solution to clean the surface of the chair seat positioning touchpad.

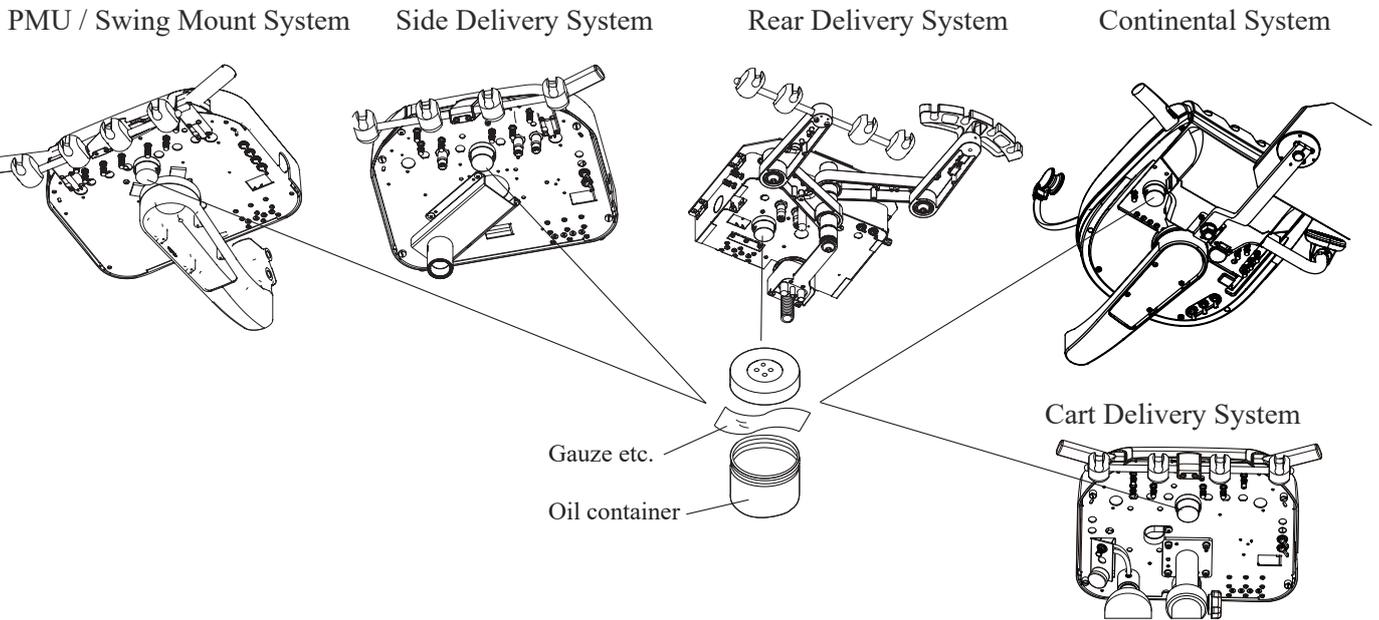
NOTICE

Observe the instructions given in the package insert and Instruction Manual included with the handpiece to clean it.

CARE AND MAINTENANCE

(2) Oil Mist Separator

Handpiece oil mist separator is located underneath the doctor table. The oil contained in the exhaust air of each handpiece is collected in this container. Remove the container then throw away the collected oil and oil absorbing material such as gauze in the container. This procedure is to be done regularly when the container is filled with the oil.



2. Vac Pac, Left-Right Cuspidor, Cuspidor, Rear Delivery Section, and Assistant Instrument Holder Section

(1) Solid Collector

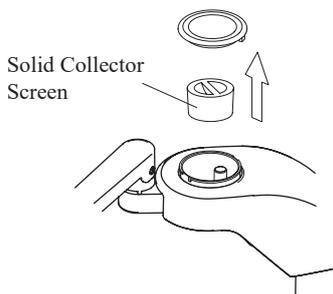
Clean solid collector filter daily for optimum performance.

Use personal protective equipment such as utility gloves, masks, and protective eyewear.

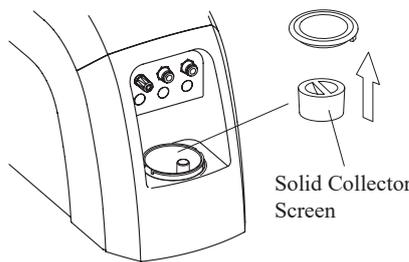
Remove the trap and empty the contents into a widemouthed, airtight, plastic container labeled Contact Amalgam Waste for Recycling. Ensure that the container is tightly sealed at all times.

When the container is full, send it to a recycler.

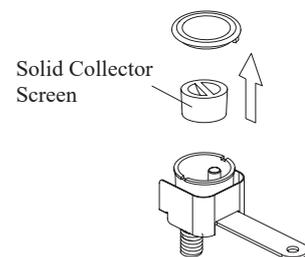
Vacuum Pack Section



Cuspidor Section

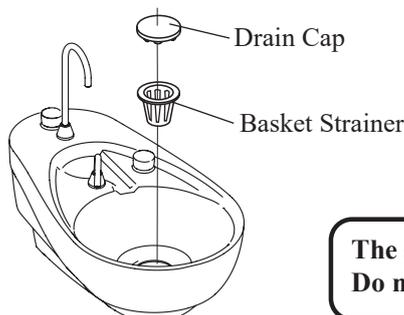


Rear Delivery Section



(2) Basket Strainer on Cuspidor Section

Take out the drain cap and the basket strainer in centre of the cuspidor bowl and clean them.



CAUTION

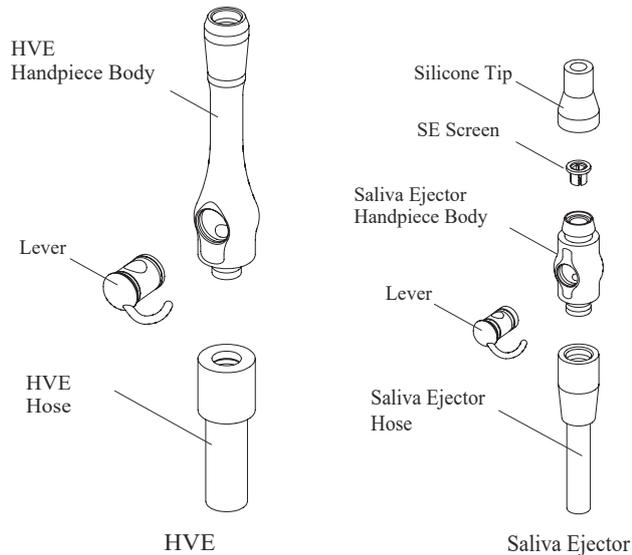
The spittoon bowl is made of ceramic. It may break if it is impacted. Do not wash it with hot water. Otherwise, it may break.

CARE AND MAINTENANCE

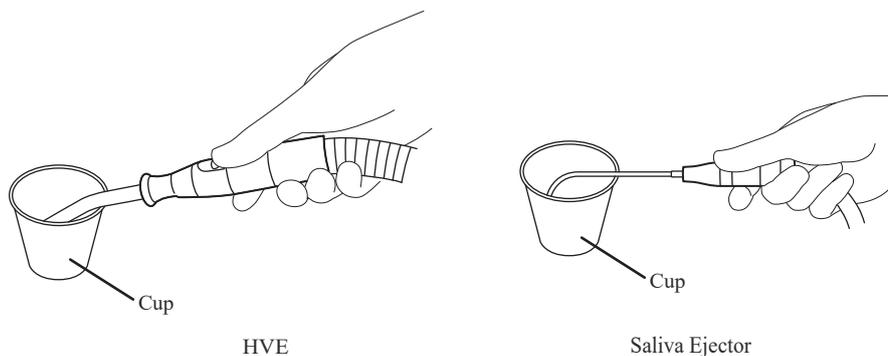
(3) HVE and Saliva Ejector

- 1) Pull out the HVE from the hose and clean it.
- 2) After daily operation, run two cups of clean water through the suction line to clean inside.

Note : After cleaning the HVE and Saliva Ejector, apply a white vaseline lightly on the rubber O-Rings to prevent damage to this O-Ring.



Suction a cup of water [approx. 3.4oz (100 ml)] or more into the vacuum and saliva ejector handpieces after use by a patient. This is to clean and dilute the medicine used and to prevent the handpieces deteriorating.



CAUTION

Some medicines used for the procedure may cause deterioration of the handpiece. It may dissolve, deform, or damage part of the handpiece, possibly resulting in leaks from the handpiece or suction failure. This will ultimately makes the handpiece unusable.
Please wash them properly to ensure long-term use.

CARE AND MAINTENANCE

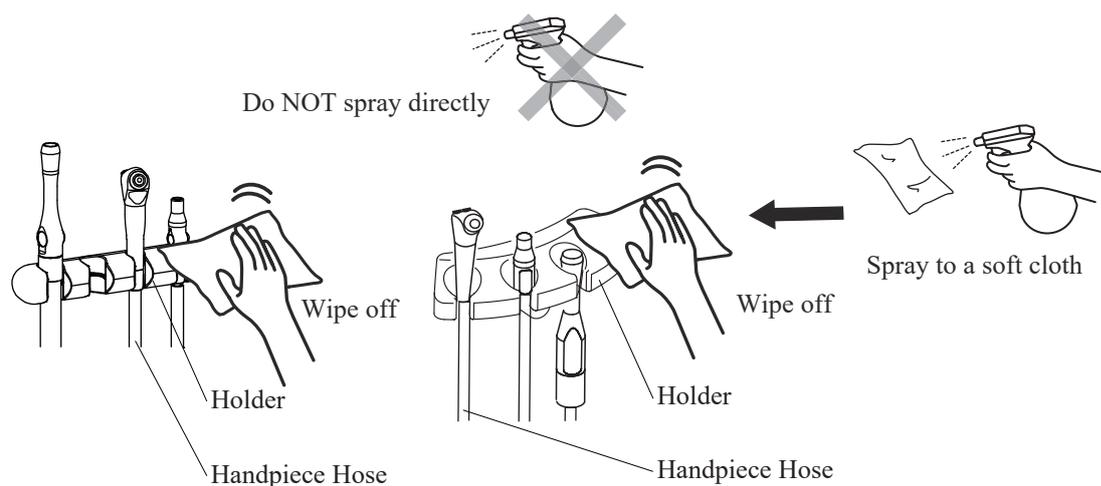
(4) Assistant Instrument Holder ; Holder, Handpiece Hose

Wipe off the holder surface with soft cloth moistened with cleaner or disinfectant. Wipe off with dry soft cloth to dried up of the holder after cleaning and disinfection.

Use the cleaner and disinfectant OPTIM33TB made by SciCan.

CAUTION

Do not spray liquids directly onto the surfaces of the holder.



3. Product Exterior

Cleaning and Disinfection of product exterior

1) Clean the metallic parts with a dry soft cloth.

Wipe off water immediately if water is put on the product. Water may cause rusting.

2) Clean the resin parts with a wet soft cloth.

3) Use OPTIM33TB made by SciCan for cleaning and bacteria elimination from the product exterior.

CAUTION

* Wipe off water and residual disinfectant immediately. This could cause corrosion, damage or incorrect operation of the unit.

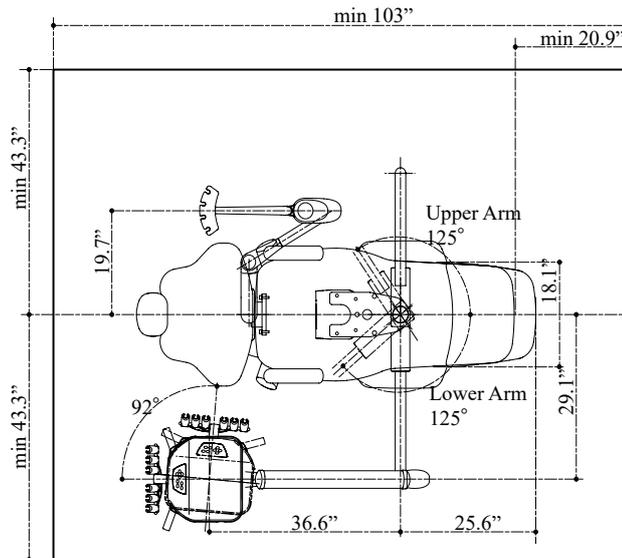
* Immediately wipe off any water spills or leakage on the floor. This could cause damage to the product, decreased strength of the floor may lead to physical injury including fall, or property damage.

DIMENSIONS AND SPECIFICATIONS

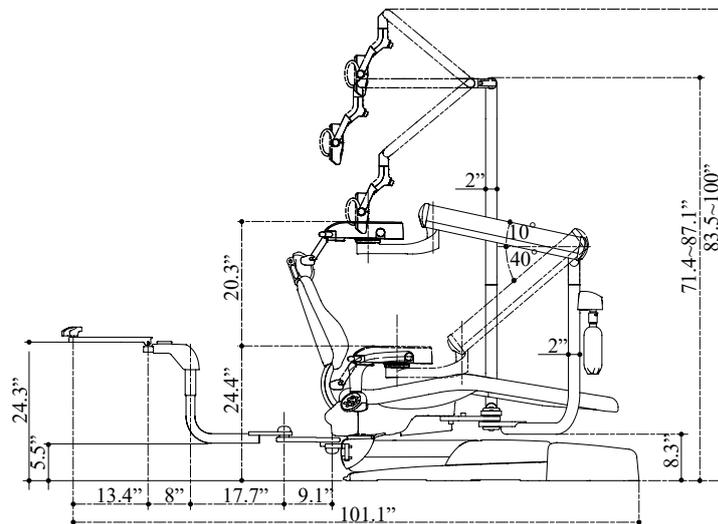
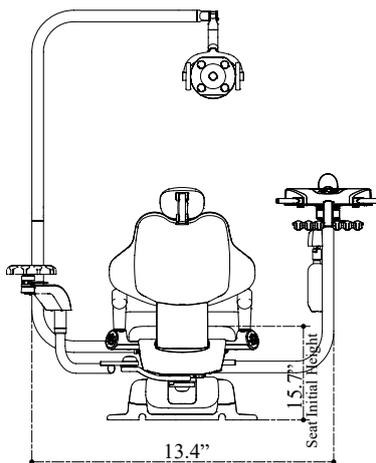
Swing Mounted Delivery System with Holder Type Table and Vac Pac and Clesta LED Dental Light (Quolis Chair)

Dimensions

- Inch
- Tolerance $\pm 10\%$



Minimum dimension for change to right and left position excluding treatment space.



Specifications

Power Consumption-----	AC120V 1.6A
Frequency-----	60 Hz
Fuse value-----	M6AL, 250V (Fuse Size : ϕ 6.3 x 30 mm)
Doctor's control Net Weight-----	44 lbs (20 kg)
Swing Arm Net Weight-----	55 lbs (25 kg) (Without Dental Light)
Vacuum Pack Net Weight-----	44 lbs (20 kg)
Junction Net Weight-----	9 lbs (4 kg)
Doctor Table Maximum Load-----	4.40 lbs (2 kg)
Operating Pressure-----	Water 29 psi (0.2 MPa), Air 75 psi (0.5 MPa)
Vacuum -----	Minimum 52.8gpm (200L/min)
Dental Light-----	Clesta LED Dental Light
-----	Bel-Halo Dental Light
-----	Bel-Nova
Classification of foot controller-----	IPX1 (applicable standard IEC60529)
Protection class against electric shock-----	Class I equipment
Applied parts-----	Type B applied parts : Handpiece for unit (List of compatible handpieces)
Service Life-----	10 years

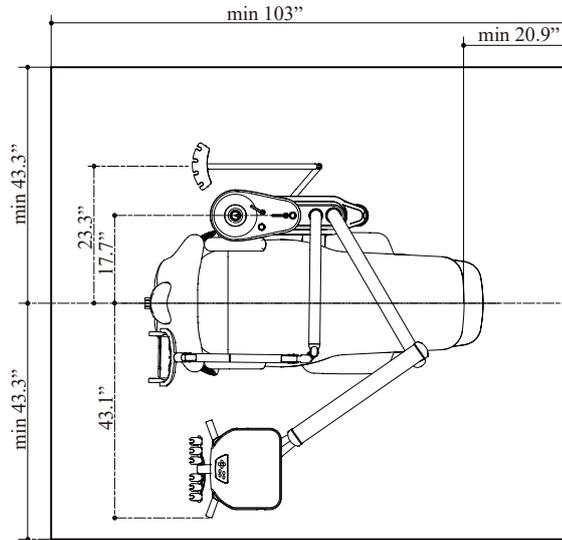
Refer to the rating plate for the capacity of power supply.
The specification is subject to change without notice.

DIMENSIONS AND SPECIFICATIONS

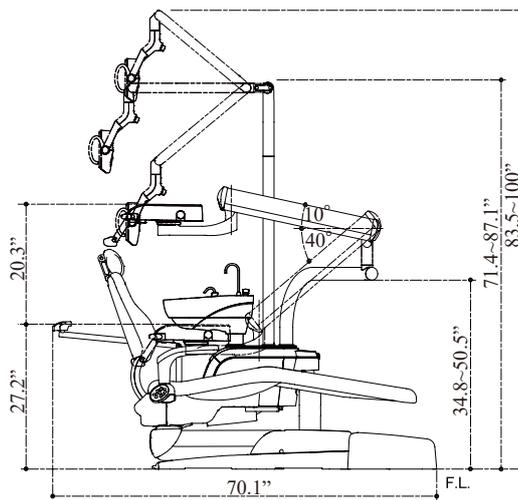
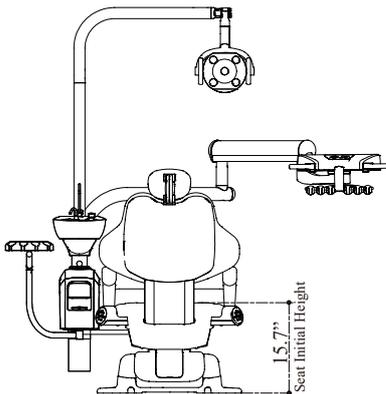
Over the Patient Delivery System with Holder Type Table and Cuspidor and Clesta LED Dental Light (Quolis Chair)

Dimensions

- Inch
- Tolerance $\pm 10\%$



Minimum dimension excluding treatment space



Specifications

Power Consumption-----	AC120V 1.6A
Frequency-----	60 Hz
Fuse value-----	M6AL, 250V (Fuse Size : ϕ 6.3 x 30 mm)
Doctor's control Net Weight-----	44 lbs (20 kg)
Swing Arm Net Weight-----	55 lbs (25 kg) (Without Dental Light)
Cuspidor Section Net Weight-----	66 lbs (30 kg)
Junction Net Weight-----	9 lbs (4 kg)
Doctor Table Maximum Load-----	4.40 lbs (2 kg)
Operating Pressure-----	Water 29 psi (0.2 MPa), Air 75 psi (0.5 MPa)
Vacuum -----	Minimum 52.8gpm (200L/min)
Dental Light-----	Clesta LED Dental Light
-----	Bel-Halo Dental Light
-----	Bel-Nova
Classification of foot controller-----	IPX1 (applicable standard IEC60529)
Protection class against electric shock-----	Class I equipment
Applied parts-----	Type B applied parts : Handpiece for unit (List of compatible handpieces)
Service Life-----	10 years

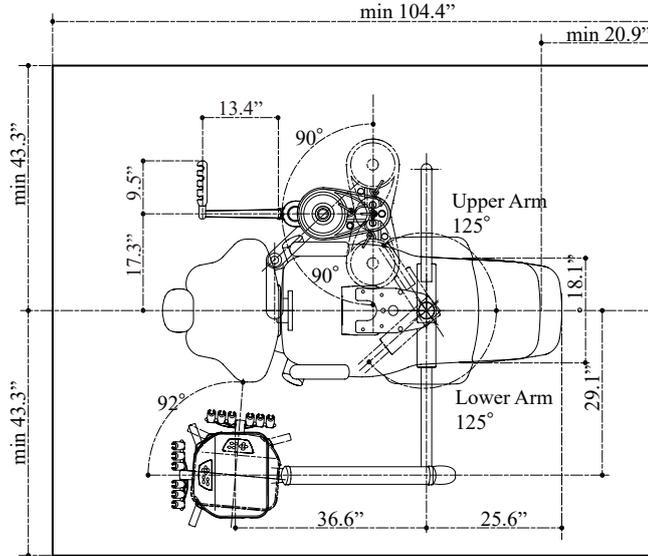
Refer to the rating plate for the capacity of power supply.
The specification is subject to change without notice.

DIMENSIONS AND SPECIFICATIONS

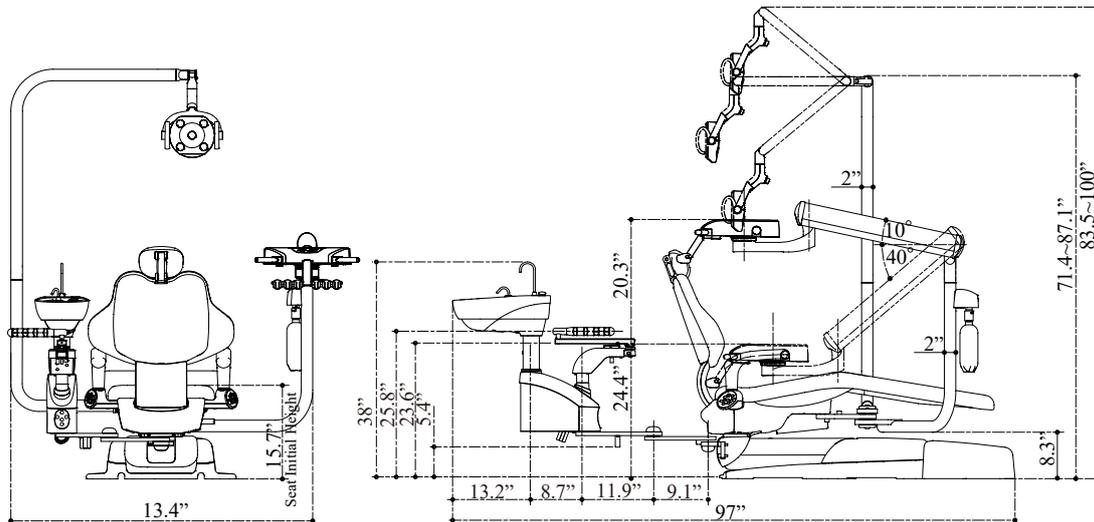
Swing Mounted Delivery System with Holder Type Table and Left-Right Cuspidor and Clesta LED Dental Light (Quolis Chair)

Dimensions

- Inch
- Tolerance $\pm 10\%$



Minimum dimension for change to right and left position excluding treatment space.



Specifications

Power Consumption-----	AC120V 1.6A
Frequency-----	60 Hz
Fuse value-----	M6AL, 250V (Fuse Size : ϕ 6.3 x 30 mm)
Doctor's control Net Weight-----	44 lbs (20 kg)
Swing Arm Net Weight-----	55 lbs (25 kg) (Without Dental Light)
Left-Right Cuspidor Net Weight-----	66 lbs (30 kg)
Junction Net Weight-----	9 lbs (4 kg)
Doctor Table Maximum Load-----	4.40 lbs (2 kg)
Operating Pressure-----	Water 29 psi (0.2 MPa), Air 75 psi (0.5 MPa)
Vacuum -----	Minimum 52.8gpm (200L/min)
Dental Light-----	Clesta LED Dental Light
-----	Bel-Halo Dental Light
-----	Bel-Nova
Classification of foot controller-----	IPX1 (applicable standard IEC60529)
Protection class against electric shock-----	Class I equipment
Applied parts-----	Type B applied parts : Handpiece for unit (List of compatible handpieces)
Service Life-----	10 years

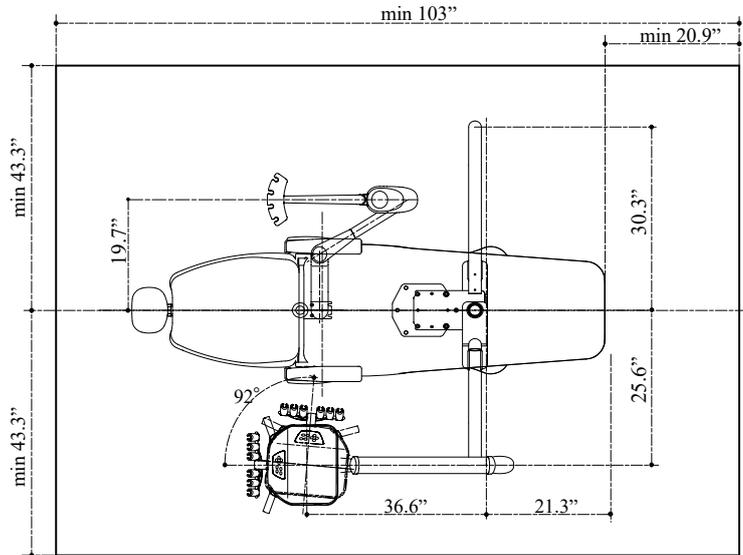
Refer to the rating plate for the capacity of power supply.
The specification is subject to change without notice.

DIMENSIONS AND SPECIFICATIONS

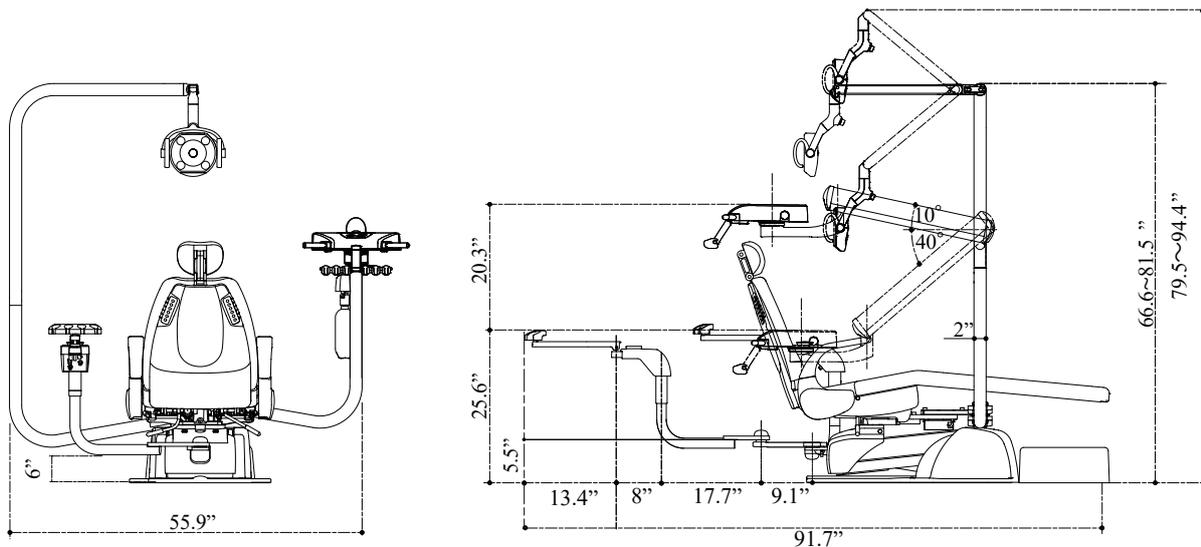
Swing Mounted Delivery System with Holder Type Table and Vac Pac and Clesta LED Dental Light (X-CALIBUR V (MODEL : B50N) Chair)

Dimensions

- Inch
- Tolerance $\pm 10\%$



Minimum dimension for change to right and left position excluding treatment space.



Specifications

Power Consumption-----	AC120V 1.6A
Frequency-----	60 Hz
Fuse value-----	M6AL, 250V (Fuse Size : ϕ 6.3 x 30 mm)
Doctor's control Net Weight-----	44 lbs. (20 kg)
Swing Arm Net Weight-----	55 lbs. (25 kg) (Without Dental Light)
Cuspidor Section Net Weight-----	44 lbs. (20 kg)
Junction Net Weight-----	9 lbs. (4 kg)
Doctor Table Maximum Load-----	4.40 lbs. (2 kg)
Operating Pressure-----	Water 29 psi (0.2 MPa), Air 75 psi (0.5 MPa)
Classification of foot controller-----	IPX1 (applicable standard IEC60529)
Dental Light-----	Clesta LED Dental Light
	----- Bel-Halo Dental Light
	----- Bel-Nova
Protection class against electric shock-----	Class I equipment
Service Life-----	10 years

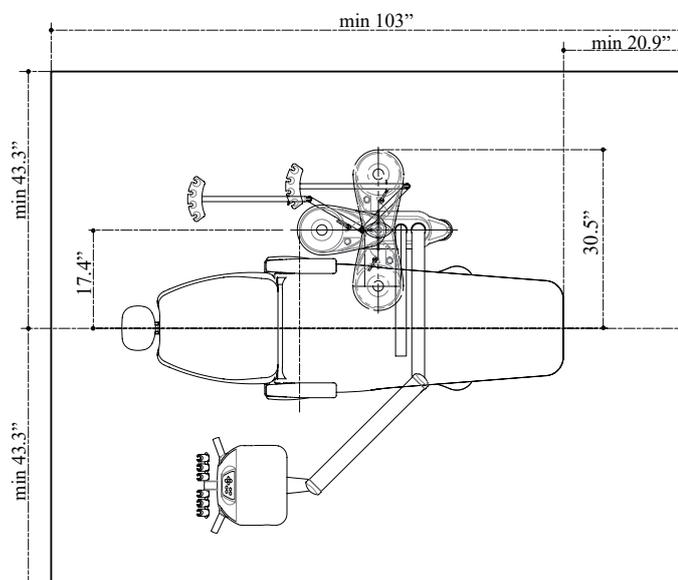
Refer to the rating plate for the capacity of power supply.
The specification is subject to change without notice.

DIMENSIONS AND SPECIFICATIONS

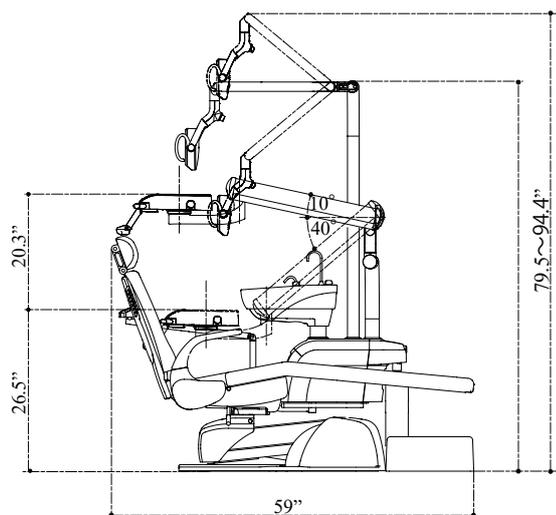
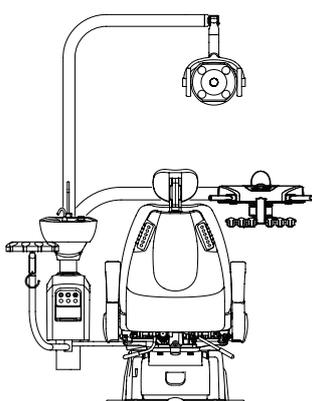
Over the Patient Delivery System with Holder Type Table and Cuspidor and Clesta LED Dental Light (X-CALIBUR V (MODEL : B50N) Chair)

Dimensions

- Inch
- Tolerance $\pm 10\%$



Minimum dimension for change to right and left position excluding treatment space.



Specifications

Power Consumption-----	AC120V 1.6A
Frequency-----	60 Hz
Fuse value-----	M6AL, 250V (Fuse Size : ϕ 6.3 x 30 mm)
Doctor's control Net Weight-----	44 lbs. (20 kg)
Swing Arm Net Weight-----	55 lbs. (25 kg) (Without Dental Light)
Cuspidor Section Net Weight-----	66 lbs. (30 kg)
Junction Net Weight-----	9 lbs. (4 kg)
Doctor Table Maximum Load-----	4.40 lbs. (2 kg)
Operating Pressure-----	Water 29 psi (0.2 MPa), Air 75 psi (0.5 MPa)
Classification of foot controller-----	IPX1 (applicable standard IEC60529)
Dental Light-----	Clesta LED Dental Light
	----- Bel-Halo Dental Light
	----- Bel-Nova
Protection class against electric shock-----	Class I equipment
Service Life-----	10 years

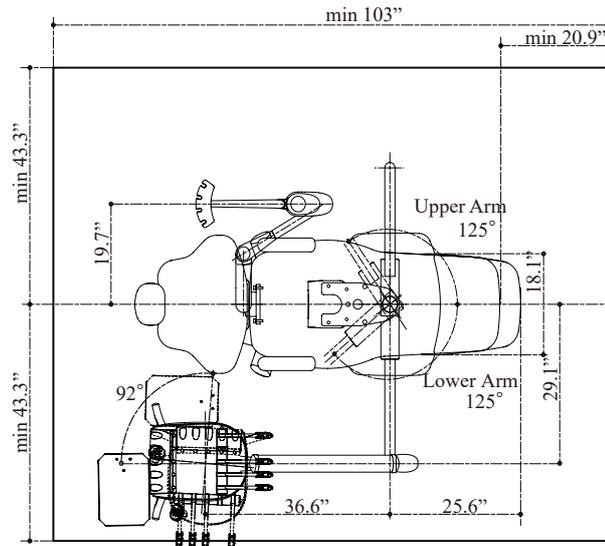
Refer to the rating plate for the capacity of power supply.
The specification is subject to change without notice.

DIMENSIONS AND SPECIFICATIONS

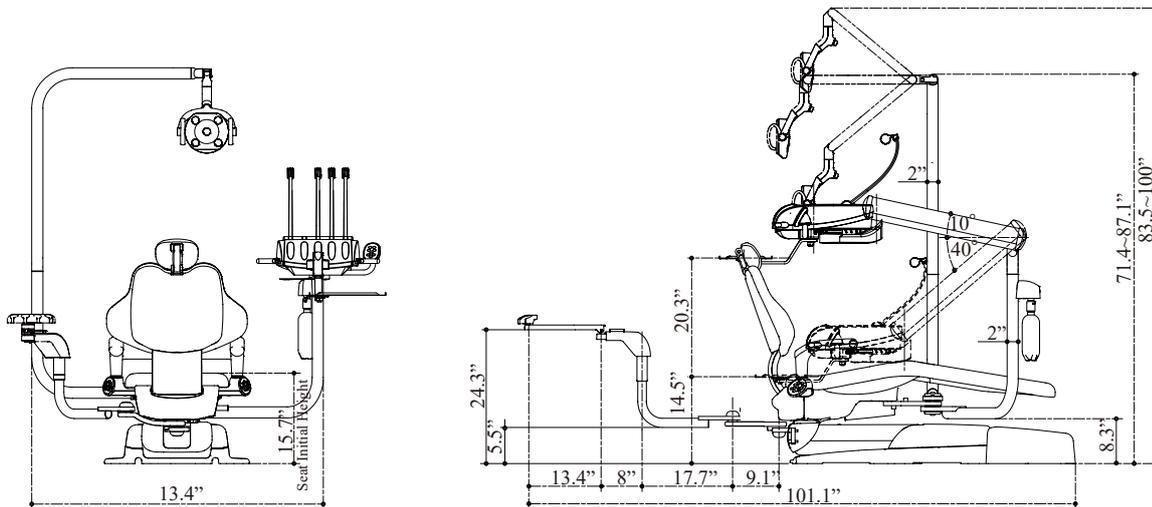
Swing Mounted Delivery System with Continental Type Table and Vac Pac and Clesta LED Dental Light (Quolis Chair)

Dimensions

- Inch
- Tolerance $\pm 10\%$



Minimum dimension for change to right and left position excluding treatment space.



Specifications

Power Consumption-----	AC120V 1.6A
Frequency-----	60 Hz
Fuse value-----	M6AL, 250V (Fuse Size : ϕ 6.3 x 30 mm)
Doctor's control Net Weight-----	57 lbs (26 kg)
Swing Arm Net Weight-----	55 lbs (25 kg) (Without Dental Light)
Vacuum Pack Net Weight-----	44 lbs (20 kg)
Junction Net Weight-----	9 lbs (4 kg)
Doctor Table Maximum Load-----	4.40 lbs (2 kg)
Operating Pressure-----	Water 29 psi (0.2 MPa), Air 75 psi (0.5 MPa)
Vacuum -----	Minimum 52.8gpm (200L/min)
Dental Light-----	Clesta LED Dental Light
-----	Bel-Halo Dental Light
-----	Bel-Nova
Classification of foot controller-----	IPX1 (applicable standard IEC60529)
Protection class against electric shock-----	Class I equipment
Applied parts-----	Type B applied parts : Handpiece for unit (List of compatible handpieces)
Service Life-----	10 years

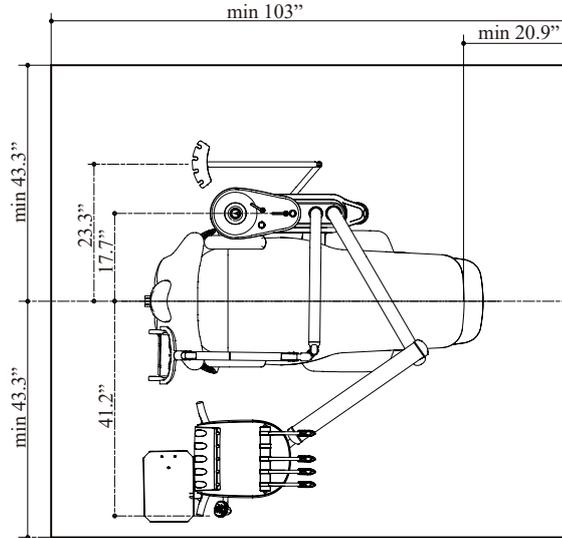
Refer to the rating plate for the capacity of power supply.
The specification is subject to change without notice.

DIMENSIONS AND SPECIFICATIONS

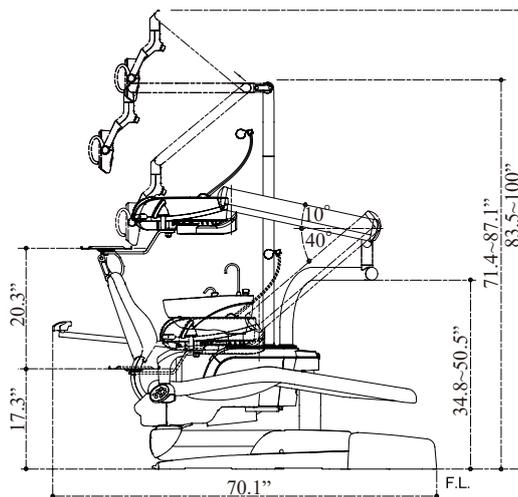
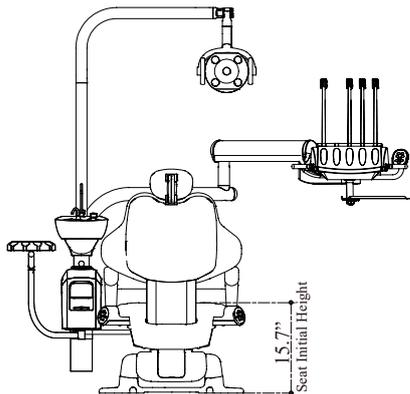
Over the Patient Delivery System with Continental Type Table and Cuspidor and Clesta LED Dental Light (Quolis Chair)

Dimensions

- Inch
- Tolerance $\pm 10\%$



Minimum dimension excluding treatment space



Specifications

Power Consumption-----	AC120V 1.6A
Frequency-----	60 Hz
Fuse value-----	M6AL, 250V (Fuse Size : ϕ 6.3 x 30 mm)
Doctor's control Net Weight-----	57 lbs (26 kg)
Swing Arm Net Weight-----	55 lbs (25 kg) (Without Dental Light)
Cuspidor Section Net Weight-----	66 lbs (30 kg)
Junction Net Weight-----	9 lbs (4 kg)
Doctor Table Maximum Load-----	4.40 lbs (2 kg)
Operating Pressure-----	Water 29 psi (0.2 MPa), Air 75 psi (0.5 MPa)
Vacuum -----	Minimum 52.8gpm (200L/min)
Dental Light-----	Clesta LED Dental Light
-----	Bel-Halo Dental Light
-----	Bel-Nova
Classification of foot controller-----	IPX1 (applicable standard IEC60529)
Protection class against electric shock-----	Class I equipment
Applied parts-----	Type B applied parts : Handpiece for unit (List of compatible handpieces)
Service Life-----	10 years

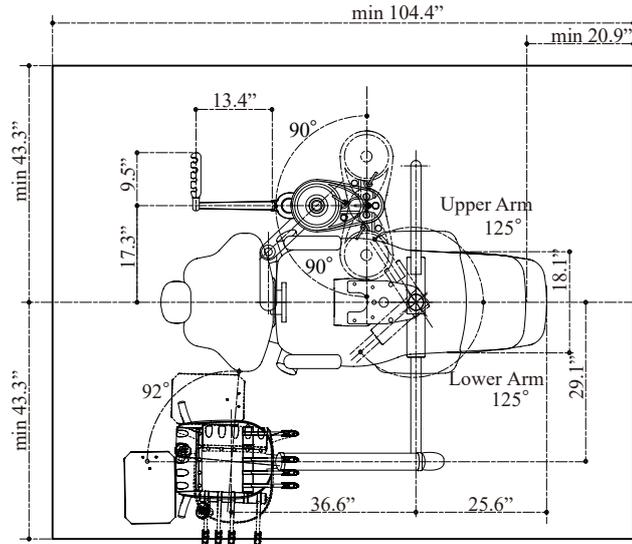
Refer to the rating plate for the capacity of power supply.
The specification is subject to change without notice.

DIMENSIONS AND SPECIFICATIONS

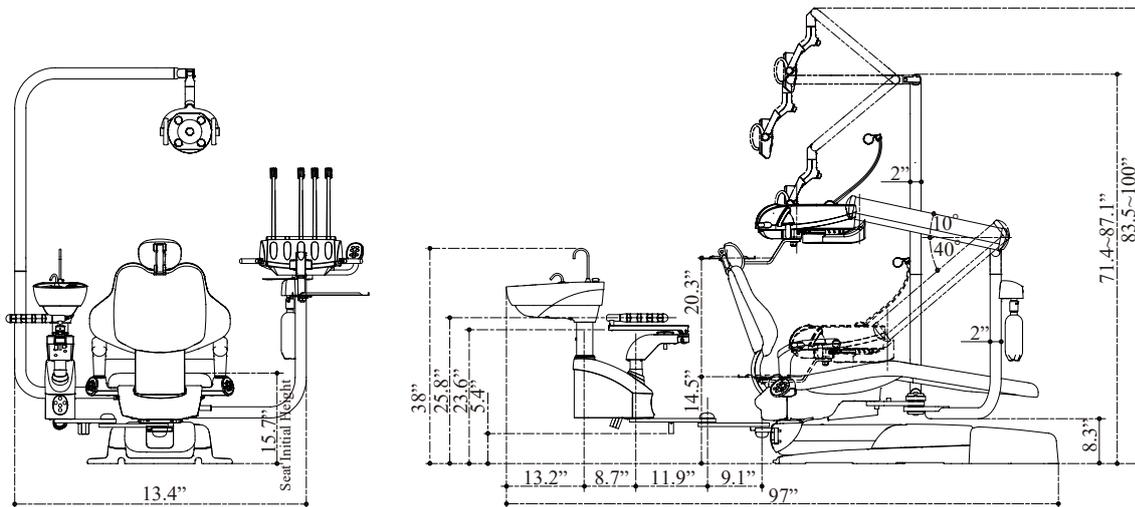
Swing Mounted Delivery System with Continental Type Table and Left-Right Cuspidor and Clesta LED Dental Light (Quolis Chair)

Dimensions

- Inch
- Tolerance $\pm 10\%$



Minimum dimension for change to right and left position excluding treatment space.



Specifications

Power Consumption-----	AC120V 1.6A
Frequency-----	60 Hz
Fuse value-----	M6AL, 250V (Fuse Size : ϕ 6.3 x 30 mm)
Doctor's control Net Weight-----	57 lbs (26 kg)
Swing Arm Net Weight-----	55 lbs (25 kg) (Without Dental Light)
Left-Right Cuspidor Net Weight -----	66 lbs (30 kg)
Junction Net Weight-----	9 lbs (4 kg)
Doctor Table Maximum Load-----	4.40 lbs (2 kg)
Operating Pressure-----	Water 29 psi (0.2 MPa), Air 75 psi (0.5 MPa)
Vacuum -----	Minimum 52.8gpm (200L/min)
Dental Light-----	Clesta LED Dental Light
-----	Bel-Halo Dental Light
-----	Bel-Nova
Classification of foot controller-----	IPX1 (applicable standard IEC60529)
Protection class against electric shock-----	Class I equipment
Applied parts-----	Type B applied parts : Handpiece for unit (List of compatible handpieces)
Service Life-----	10 years

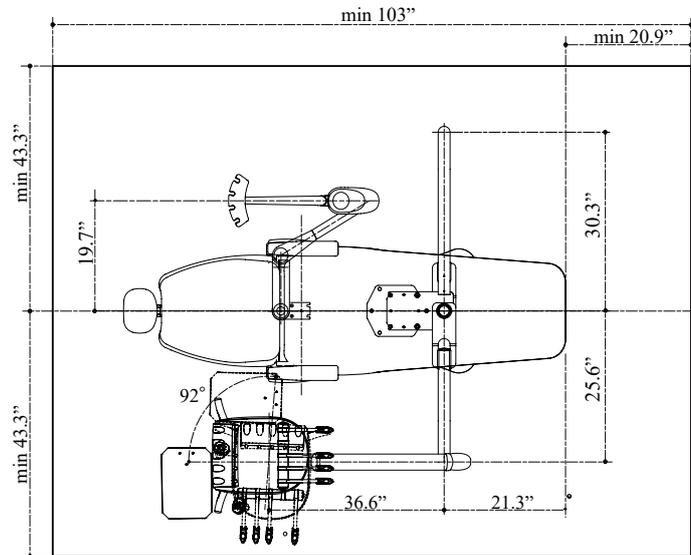
Refer to the rating plate for the capacity of power supply.
The specification is subject to change without notice.

DIMENSIONS AND SPECIFICATIONS

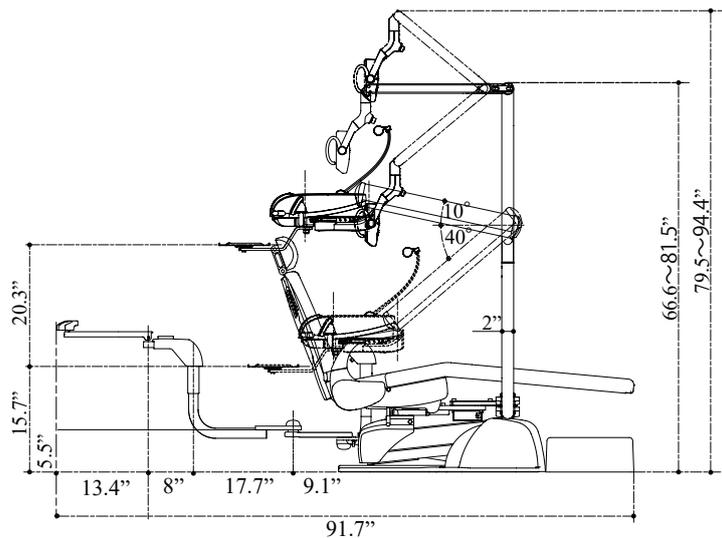
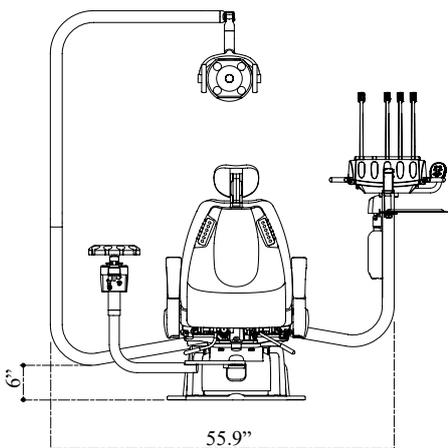
Swing Mounted Delivery System with Continental Type Table and Vac Pac and Clesta LED Dental Light (X-CALIBUR V (MODEL : B50N) Chair)

Dimensions

- Inch
- Tolerance $\pm 10\%$



Minimum dimension for change to right and left position excluding treatment space.



Specifications

Power Consumption-----	AC120V 1.6A
Frequency-----	60 Hz
Fuse value-----	M6AL, 250V (Fuse Size : ϕ 6.3 x 30 mm)
Doctor's control Net Weight-----	57 lbs. (26 kg)
Swing Arm Net Weight-----	55 lbs. (25 kg) (Without Dental Light)
Cuspidor Section Net Weight-----	44 lbs. (20 kg)
Junction Net Weight-----	9 lbs. (4 kg)
Doctor Table Maximum Load-----	4.40 lbs. (2 kg)
Operating Pressure-----	Water 29 psi (0.2 MPa), Air 75 psi (0.5 MPa)
Classification of foot controller-----	IPX1 (applicable standard IEC60529)
Dental Light-----	Clesta LED Dental Light
-----	Bel-Halo Dental Light
-----	Bel-Nova
Protection class against electric shock-----	Class I equipment
Service Life-----	10 years

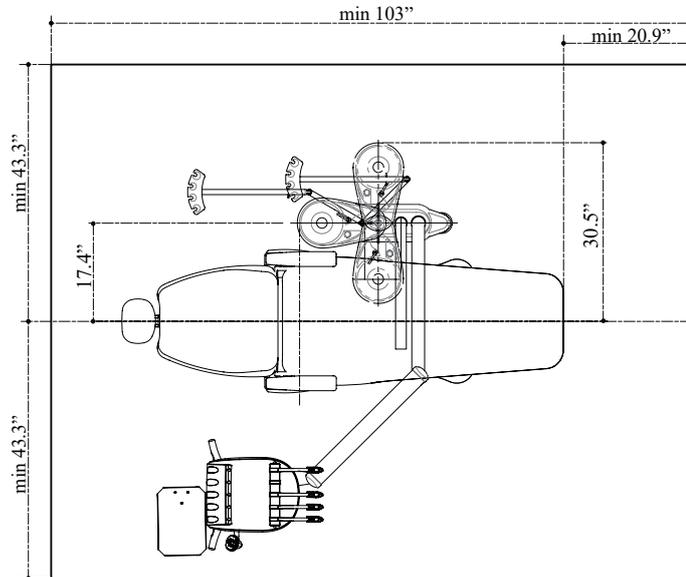
Refer to the rating plate for the capacity of power supply.
The specification is subject to change without notice.

DIMENSIONS AND SPECIFICATIONS

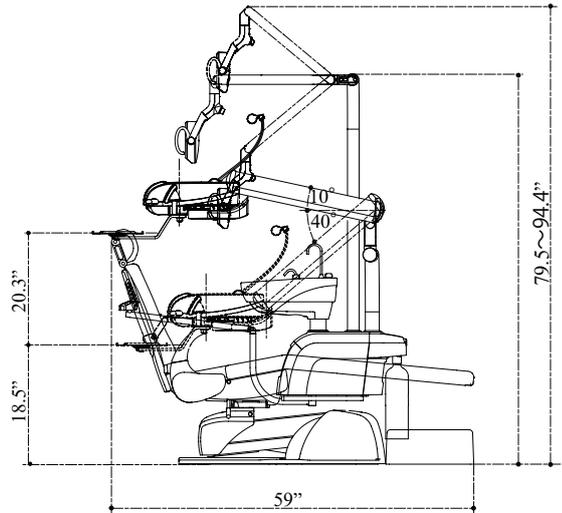
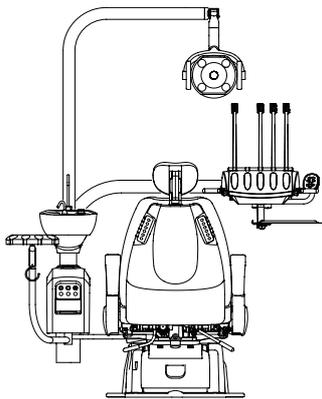
Over the Patient Delivery System with Continental Type Table and Cuspidor and Clesta LED Dental Light (X-CALIBUR V (MODEL : B50N) Chair)

Dimensions

- Inch
- Tolerance $\pm 10\%$



Minimum dimension for change to right and left position excluding treatment space.



Specifications

Power Consumption-----	AC120V 1.6A
Frequency-----	60 Hz
Fuse value-----	M6AL, 250V (Fuse Size : ϕ 6.3 x 30 mm)
Doctor's control Net Weight-----	57 lbs. (26 kg)
Swing Arm Net Weight-----	55 lbs. (25 kg) (Without Dental Light)
Cuspidor Section Net Weight-----	66 lbs. (30 kg)
Junction Net Weight-----	9 lbs. (4 kg)
Doctor Table Maximum Load-----	4.40 lbs. (2 kg)
Operating Pressure-----	Water 29 psi (0.2 MPa), Air 75 psi (0.5 MPa)
Classification of foot controller-----	IPX1 (applicable standard IEC60529)
Dental Light-----	Clesta LED Dental Light
	----- Bel-Halo Dental Light
	----- Bel-Nova
Protection class against electric shock-----	Class I equipment
Service Life-----	10 years

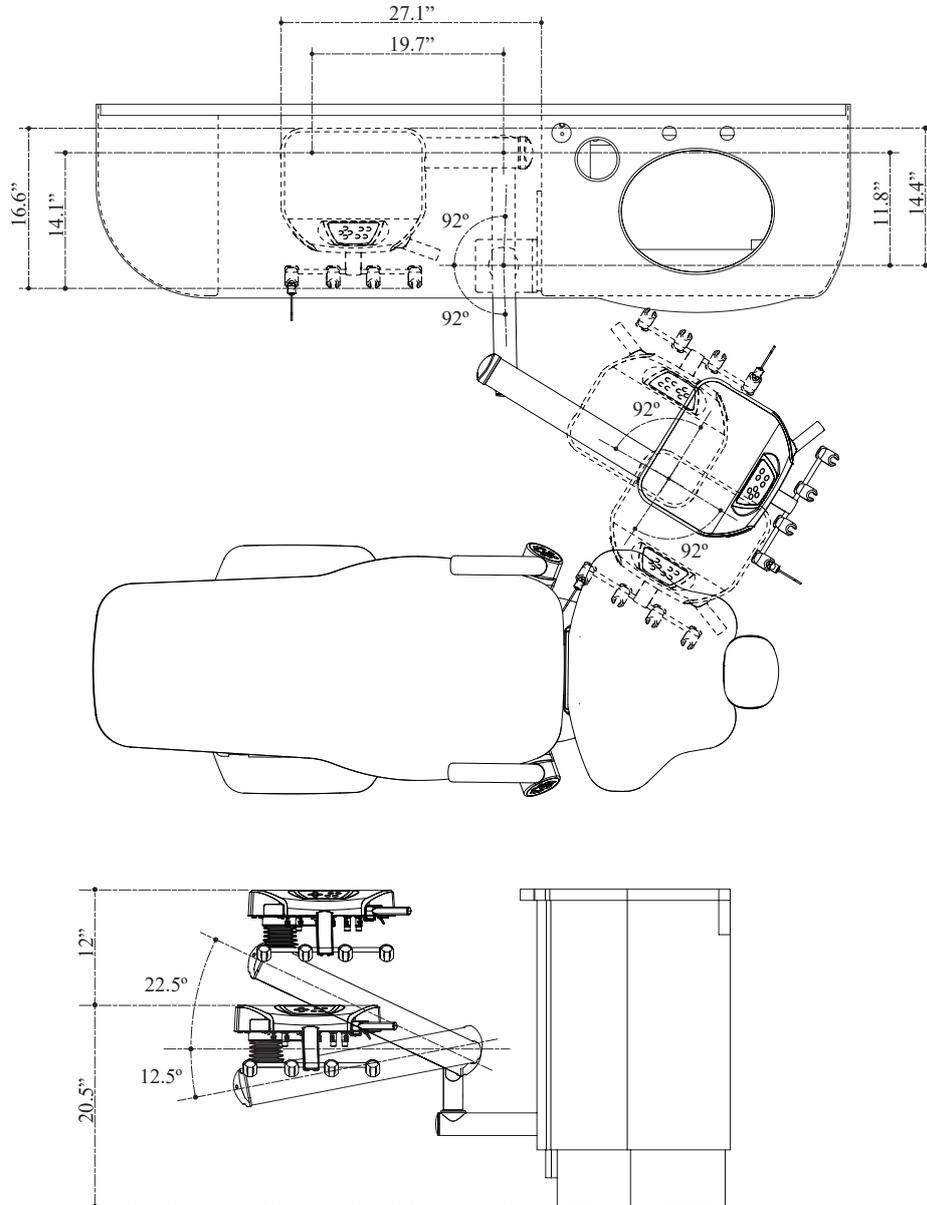
Refer to the rating plate for the capacity of power supply.
The specification is subject to change without notice.

DIMENSIONS AND SPECIFICATIONS

Side Delivery System

Dimensions

- Inch
- Tolerance $\pm 10\%$



Specifications

Power Consumption-----	AC120V 1.6A
Frequency-----	60 Hz
Fuse value-----	M6AL, 250V (Fuse Size : ϕ 6.3 x 30 mm)
Side Delivery Net Weight-----	54.0 lbs (24.5 kg)
Operating Pressure-----	Water 29 psi (0.2 MPa), Air 75 psi (0.5 MPa)
Classification of foot controller-----	IPX1 (applicable standard IEC60529)
Protection class against electric shock-----	Class I equipment
Applied parts-----	Type B applied parts : Handpiece for unit
Service Life-----	10 years

Refer to the rating plate for the capacity of power supply.
The specification is subject to change without notice.

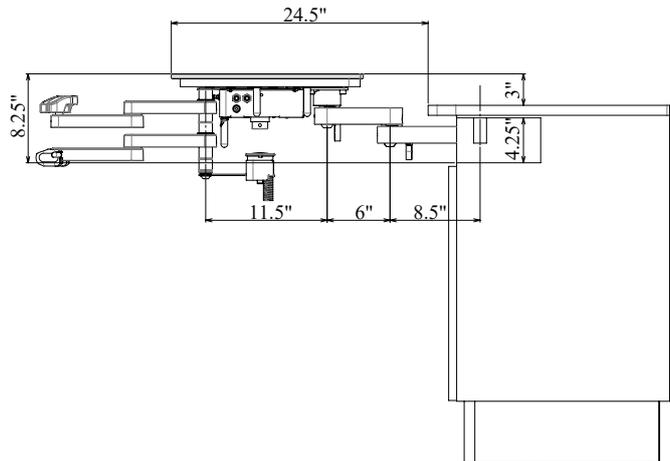
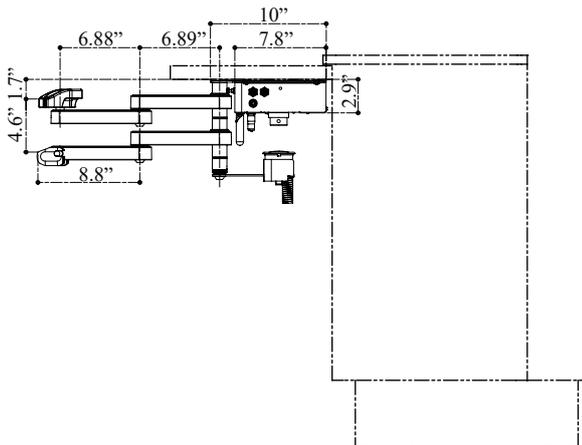
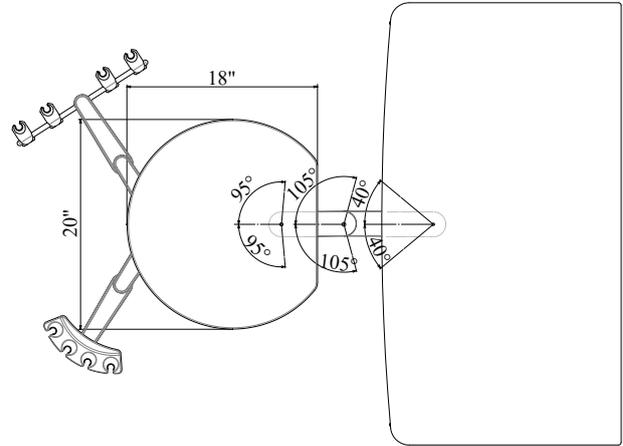
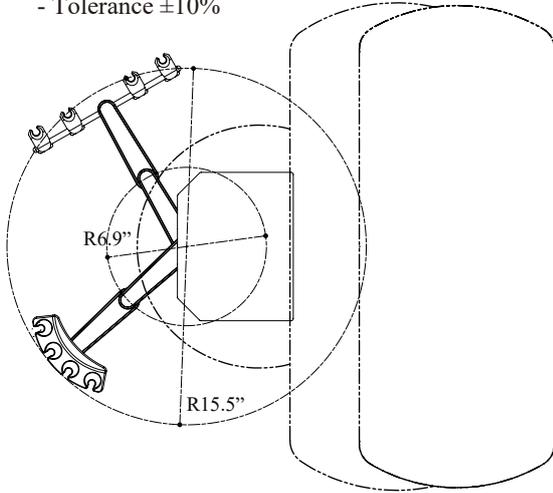
DIMENSIONS AND SPECIFICATIONS

Rear Delivery System

Using with Arm for Rear Cabinet

Dimensions

- Inch
- Tolerance $\pm 10\%$



Specifications

Power Consumption-----	AC120V 1.6A
Frequency-----	60 Hz
Fuse value-----	M6AL, 250V (Fuse Size : ϕ 6.3 x 30 mm)
Rear Delivery Net Weight-----	27.6 lbs (12.5 kg)
Operating Pressure-----	Water 29 psi (0.2 MPa), Air 75 psi (0.5 MPa)
Vacuum -----	Minimum 52.8gpm (200L/min)
Classification of foot controller-----	IPX1 (applicable standard IEC60529)
Protection class against electric shock-----	Class I equipment
Applied parts-----	Type B applied parts : Handpiece for unit
Service Life-----	10 years

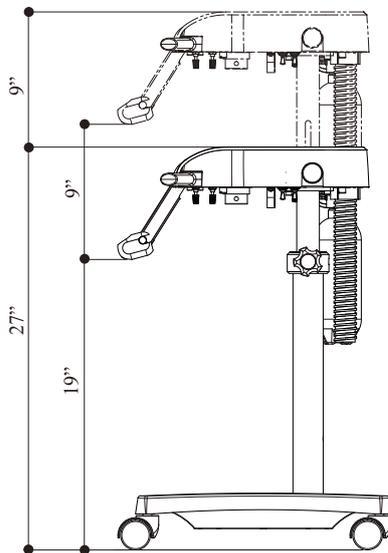
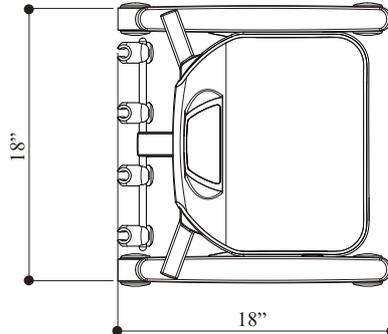
Refer to the rating plate for the capacity of power supply.
The specification is subject to change without notice.

DIMENSIONS AND SPECIFICATIONS

Cart Delivery System

Dimensions

- Inch
- Tolerance $\pm 10\%$



Specifications

Power Consumption-----	AC120V 1.6A
Frequency-----	60 Hz
Fuse value-----	M6AL, 250V (Fuse Size : $\phi 6.3 \times 30$ mm)
Cart Delivery Net Weight-----	35.3 lbs (16 kg)
Operating Pressure-----	Water 29 psi (0.2 MPa), Air 75 psi (0.5 MPa)
Classification of foot controller-----	IPX1 (applicable standard IEC60529)
Protection class against electric shock-----	Class I equipment
Applied parts-----	Type B applied parts : Handpiece for unit
Service Life-----	10 years

Refer to the rating plate for the capacity of power supply.
The specification is subject to change without notice.

DIMENSIONS AND SPECIFICATIONS

Water supply	Pressure: 29-58psi (0.2-0.4MPa) Minimum water flow: 1.6 gpm (6L / min) Hardness: Less than 2.14mmol / L (< 12° dH) pH: 6.5-8.5 Particle water filter: 40 micron filtration
Air supply	Pressure: 72.5-101.5psi (0.5-0.7MPa) Minimum flow rate: 26.5 gpm (100L / min) Humidity: 10 to 95% (No condensation) Oil contamination: Max 0.5mg / m ³ Particle contamination: Particle size (1 µm - 5 µm), less than 100 / m ³ Particle air filter: 40 micron filtration
Type of air volume flow rate	type 2: middle - volume suction system
HVE	Tip size: 0.433" (11mm) diameter, 100mm or longer
Saliva Ejector	Tip size : 0.257" (6.5mm) diameter, 100mm or longer

ELECTROMAGNETIC COMPATIBILITY (EMC)

This product complies with EMC Standard IEC60601-1-2:2014+AMD1:2020.

1. Precautions regarding EMC and compliance with accompanying documents
 Medical electrical equipment requires special precautions regarding EMC and needs to be installed and put into service according to the EMC information provided in this booklet.
2. Effects of RF communication devices
 Portable and mobile RF communication devices can affect medical electrical equipment.
3. Installation exclusion environment
 Hospitals except for near active HF SURGICAL EQUIPMENT and the RF shielded room of an ME SYSTEM for magnetic resonance imaging, where the intensity of EM DISTURBANCES is high.
4. Electromagnetic emission declaration

Guidance and manufacturer's declaration—electromagnetic emissions		
The Evogue Unit is intended for use in the electromagnetic environment specified below. The customer or user of the Evogue Unit should ensure that it is used in such an environment.		
Emissions test	Compliance	Electromagnetic environment—guidance
RF emissions CISPR 11	Group 1	The Evogue Unit only uses RF energy for its internal functions. Therefore, its RF emissions are very low and are not likely to cause any interference with nearby electronic equipment. The Evogue Unit is suitable for use in all establishments, including domestic establishments and those directly connected to the public low-voltage power supply network that supplies buildings used for domestic purposes.
RF emissions CISPR 11	Class B	
Harmonic emissions IEC 61000-3-2	Not applicable	
Voltage fluctuations/ Flicker emissions IEC 61000-3-3	Not applicable	

WARNING

Use of this equipment adjacent to or stacked with other equipment should be avoided because it could result in improper operation. If such use is necessary, this equipment and the other equipment should be observed to verify that they are operating normally.

ELECTROMAGNETIC COMPATIBILITY (EMC)

5. Electromagnetic immunity declaration 1

Guidance and manufacturer's declaration—electromagnetic immunity			
The Evogue Unit is intended for use in the electromagnetic environment specified below. The customer or user of the Evogue Unit should ensure 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 ±15 kV air	±8 kV contact ±15 kV air	Flooring should be wood, concrete, or ceramic tiles. If the floor is covered with synthetic material, the relative humidity should be at least 30%.
Electrical fast transient/burst IEC 61000-4-4	±2 kV for power supply lines ±1 kV for input/output lines	±2 kV for power supply lines ±1 kV for input/output lines	The mains power quality should be that of a typical commercial or hospital environment.
Surge IEC 61000-4-5	±1kV differential mode ±2kV common mode	±1kV differential mode ±2kV common mode	The mains power quality should be that of a typical commercial or hospital environment.
Voltage dips, short interruptions and voltage variations on power supply input lines IEC 61000-4-11	0% Ut ; 0.5 cycles 0°,45°,90°,135°, 180°, 225°, 270° and 315° 0% Ut ; 1cycle and 70% Ut ; 25/30 cycles at 0°, single phase 0%Ut ; 250/300 cycles	0% Ut ; 0.5 cycles 0°,45°,90°,135°, 180°, 225°, 270° and 315° 0% Ut ; 1cycle and 70% Ut ; 25/30 cycles at 0°, single phase 0%Ut ; 250/300 cycles	The mains power quality should be that of a typical commercial or hospital environment. If the user of the Evogue Unit requires continued operation during mains power interruptions, it is recommended that the Evogue Unit be powered from an uninterruptible power supply or a battery.
Power frequency (50/60 Hz) magnetic field IEC 61000-4-8	30A/m	30A/m	Power frequency magnetic fields should be at levels characteristic of a typical location in a typical commercial or hospital environment.
Proximity magnetic fields IEC 61000-4-39	134.2kHz 65A/m, Pulse Modulation 2.1kHz 13.56MHz 7.5A/m, Pulse Modulation 50kHz	134.2kHz 65A/m, Pulse Modulation 2.1kHz 13.56MHz 7.5A/m, Pulse Modulation 50kHz	Proximity magnetic fields should be at levels characteristic of a typical location in a professional healthcare facility environment.
Note Ut is the AC mains voltage prior to the application of the test level.			

6. Electromagnetic immunity declaration 2

Guidance and manufacturer's declaration—electromagnetic immunity			
The Evogue Unit is intended for use in the electromagnetic environment specified below. The customer or user of the Evogue Unit should ensure that it is used in such an environment.			
Immunity test	IEC 60601 test level	Compliance level	Electromagnetic environment—guidance
Conducted RF IEC 61000-4-6	3V 0.15MHz-80MHz 6V 0.15MHz-80MHz in ISM bands and amateur radio bands	3V 0.15MHz-80MHz 6V 0.15MHz-80MHz in ISM bands and amateur radio bands	Warning: Portable RF communications equipment (including peripherals such as antenna cables and external antennas) should be used no closer than 12 inches (30 cm) to any part of the Evogue Unit, including cables specified by the manufacturer. Otherwise, degradation of the performance of this equipment could result.
Radiated RF IEC 61000-4-3	3V/m 80MHz-2.7GHz 80% AM (1 kHz)	3V/m 80MHz-2.7GHz 80% AM (1 kHz)	
Near electromagnetic field caused by RF wireless communication devices IEC61000-4-3	See the table on the next page (page 84)	See the table on the next page (page 84)	

ELECTROMAGNETIC COMPATIBILITY (EMC)

Near electromagnetic field caused by RF wireless communication devices

Test frequency (MHz)	Modulation	IEC 60601 test level	IEC 60601 compliance level
385	Pulse modulation ^{a)} 18Hz	27V/m	27V/m
450	Frequency modulation ±5kHz shift 1kHz sine wave	28V/m	28V/m
710 745 780	Pulse modulation ^{a)} 217Hz	9V/m	9V/m
810 870 930	Pulse modulation ^{a)} 18Hz	28V/m	28V/m
1720 1845 1970	Pulse modulation ^{a)} 217Hz	28V/m	28V/m
2450	Pulse modulation ^{a)} 217Hz	28V/m	28V/m
5240 5500 5785	Pulse modulation ^{a)} 217Hz	9V/m	9V/m

Note a) The carrier is modulated by a square wave with a 50% duty cycle.

WARNING

Portable RF communications equipment (including peripherals such as antenna cables and external antennas) should be used no closer than 12 inches (30 cm) to any part of this product, including cables specified by the manufacturer. Otherwise, degradation of the performance of this equipment could result.

7. Essential performance

Unless operated by the chair control switch, the chair will not make any movements. Unless operated by the foot controller, the handpiece will not move except for sounding a buzzer and switching the indicator on/off.

Loss or decline of essential performance may cause the chair or handpiece to move unexpectedly, causing harm or damage to the patient, operator or people or objects around the patient or operator.

LIST OF COMPATIBLE HANDPIECES

Type	Description
Syringe	DCI (3-way)
Air Turbine	NSK Ti-Max X
	NSK PANA-MAX
Air Motor	NSK EX-203 / EX-6
Air Scaler	NSK Ti-Max
Micromotor	BIEN AIR MX2 OPTIMA (DMX2, DMX3)
Ultrasonic Scaler	DENTSPLY CAVITRON
	SATELEC SP NEWTRON
	SATELEC SP NEWTRON LED

LIST OF COMPATIBLE CHAIRS

Model
X-Calibur V [AC-B50-V120*]
Evogue Chair Q3300 [AC-Q33-CD36*]
Quolis Chair Q5500 [AC-Q55-CD36*]

LIST OF COMPATIBLE DENTAL LIGHTS

Model
Clesta LED Dental Light [AL-320XC]
Bel-Halo Dental Light [AL-D246G-EV]
Bel-Nova [AL-D106G-EV]

LIST OF COMPATIBLE DENTAL CABINETS

Model
F66
D-66CM
ECO-6
K-66

Model of Side Cabinet
ECO-1
D-1
D-4
K Side Cabinets and Flex side cabinets

BEFORE ASKING FOR REPAIRS

If any of phenomena described below has occurred, make the following checks before asking for repairs.

Phenomenon	Check point and result	Action to be taken
No power on the unit	Equipment circuit breaker in the clinic cabinet panel is not on.	Turn on the equipment circuit breaker.
	Air compressor power is not on.	Turn on the power.
Water is not supplied.	Confirm main water pressure gauge (Normal pressure = 29 psi)	Open the water shut off valve.
		Adjust the main water pressure.
No water from handpiece	Handpiece water adjustment knob is closed	Open the knob.
Turbine does not run	Confirm main air pressure gauge (Normal pressure = 75 psi)	Open the air shut off valve.
		Adjust the main air pressure.
	If air comes out from turbine hose.	Turbine failure (Refer to instruction manual of turbine)
No water or air from syringe	Syringe water or air adjustment knob is closed	Open the knob.
Vacuum suction / Saliva ejector does not suck	Lever is closed.	Open the lever.
	Handpiece filter is contaminated.	Clean the filter.
	Solid collector filter is contaminated.	Clean the filter.
	Power of the vacuum pump has not been turned on.	Turn on the power.

If the unit does not normally work even if actions were taken upon checkup stated above, then stop using the unit, turn off the main switch and contact your dealer or our office.

STORAGE METHOD

Strictly observe the following points when the product will not be used for a long period of time (following the completion of work, during the suspension of business, etc.).

1. Main switch

- Be sure to turn off the main switch at the end of each work day. (To stop supply of air, water, electric power, etc.)
- Strictly observe this instruction to prevent water leakage and electric accidents.

2. Water main valve

- Be sure to turn the main water valve inside of the junction box clockwise to the close position at the end of each work day.

3. AIR main valve

- Be sure to turn the main air valve inside of the junction box clockwise to the close position at the end of each work day.

4. Be sure to turn off the compressor breaker and then discharge air from the compressor. (Be sure to turn off the power.)

5. Be sure to turn off the vacuum pump breaker. (Be sure to turn off the power.)

6. Be sure to turn off the equipment breaker on the clinic's electrical panel. (Be sure to turn off the power.)

MAINTENANCE AND INSPECTION

Guide for daily maintenance and inspection (Maintenance and inspection by user)

- Management of maintenance and inspection of medical equipment should be implemented by the user (medical institution).
- For safe use of this product, it is necessary that inspection should be conducted in the specified frequency on the items described below.

No.	Item	Frequency	Inspection method and diagnosis	Influence if inspection not conducted	Maintenance required in case of nonconformity
1	Check safety stopping function	Each day (before operation)	Confirm if the chair movement stops by any of the following actions. *when depress any operation switches of the chair during auto chair movement.	Unexpected injury or accident maybe caused by chair movement during treatment or pinching between Doctor. Table and chair,	Contact our dealer or us if any abnormality arises.
2	Check pressure of water / air	Each day (before operation)	Check the water / air pressure reading the pressure gauges in the junction box. Default pressure setting : Water : 29 psi (0.2 MPa) Air : 75 psi (0.5 MPa)	The product malfunctions which may lead accidents etc.	Contact our dealer or us if the pressure cannot stay normal even after adjusting it.
3	Check leakage of water / air / oil	Each day (before operation)	Leakage of water, air or oil should not be observed around the product.	The product malfunctions which may lead accidents etc.	Contact our dealer or us if any abnormality arises.
4	Check condition of Doctor. Table	Each day (before operation)	The table should not lean or drift.	Injury or trouble may occur if something falls down from the table.	Contact our dealer or us if any abnormality arises.
5	Check each operation switch	Each day (before operation)	The operation switches should function correctly. *Refer to operation instruction of each switch.	The product malfunctions which may lead accidents etc.	Contact our dealer or us if any abnormality arises.
6	Check motion of air turbine / motor	Each day (before operation)	Rotation and spray of air turbine and air motor should work properly. See and follow the rating figure of each handpiece according to the instruction manual of it.	Troubles such as injury in patient's oral cavity and failure of handpiece may arise.	Adjust the water flow referring to page 43 Doctor Table Section Controls. Contact our dealer or us if the equipment still doesn't work properly after the adjustment.
7	Check motion of scaler	Each day (before operation)	Vibration and water flow of scaler should work properly.	Troubles such as injury in patient's oral cavity, burn injury by heat and failure of handpiece may arise.	Adjust the water flow referring to page 43 Doctor Table Section Controls. Contact our dealer or us if the equipment still doesn't work properly after the adjustment.
8	Check connection of handpiece	Each day (before operation)	Leakage of water or air should not be observed at the joint of handpiece and hose.	Troubles such as injury in patient's oral cavity, burn injury by heat and failure of handpiece may arise.	Turn off the master switch then reattach the handpiece. Contact our dealer or us if no improvement is found after the reattachment.
9	Check motion of syringe	Each day (before operation)	Water flow, air flow and spray should work properly.	Functions of syringe (drying, cooling and rising on the treatment area) will not work properly.	Adjust the water flow referring to page 43 Doctor Table Section Controls. Contact our dealer or us if the equipment still doesn't work properly after the adjustment.

MAINTENANCE AND INSPECTION

No.	Item	Frequency	Inspection method and diagnosis	Influence if inspection not conducted	Maintenance required in case of nonconformity
10	Vacuum handpiece	Each day (before operation)	Suction line can be operated (open/close) properly by the vacuum valve.	The power becomes weak to suction blood, water, saliva and other crumbs.	In case the valve become hard to open/close, clean the vacuum handpiece referring to page 66 Care and Maintenance. Contact our dealer or us if the equipment still doesn't work properly after the cleaning.
11	Saliva ejector handpiece	Each day (before operation)	Suction line can be operated (open/close) properly by the saliva ejector valve.	The power becomes weak to suction water, saliva etc.	In case the valve become hard to open/close, clean the saliva ejector handpiece referring to page 66 Care and Maintenance. Contact our dealer or us if the equipment still doesn't work properly after the cleaning.
12	Cupfiller	Each day (before operation)	Water is supplied through the cupfiller nozzle during cup filler switch is depressed.	Water is not supplied.	Contact our dealer or us if any abnormality arises.
13	Bowl flush	Each day (before operation)	Bowl flush supposed to function by pushing bowl flush button.	Bowl flush may not function properly.	Contact our dealer or us if any abnormality arises.
14	Other	Each day (before operation)	Abnormal noise, backlash or slip should not be appeared on the moving parts of the unit during operation.	The unit will malfunction which may cause an accident etc..	Contact our dealer or us if any abnormality arises.
15	Check air turbine and bar	Each patient (interval of every operation)	Appropriate bar shall be attached securely on a handpiece. Make sure to refer to the instruction manual of individual equipment.	The bar will malfunction which may cause an accident etc..	Should there be abnormalities on the bar such as scuff or deformation, replace the bar in accordance with the instruction manual of individual equipment.
16	Check scaler tip	Each patient (interval of every operation)	Appropriate tip shall be attached securely on a handpiece and operated correctly. Make sure to refer to the instruction manual of individual equipment.	The tip will malfunction which may cause an accident etc..	In case abrasion or deformation happen on the tip, replace the tip in accordance with the instruction manual of individual equipment. For the other troubles, contact our dealer or us.
17	Care exterior	Each day (after the last operation)	Chemical, filthy water and so forth shall not be found (attached or remaining) on the product exterior.	Discoloration and deterioration to the exterior, and corrosion and rusting to metallic components may arise.	Execute wiping in accordance with "Care and Maintenance" section of this manual.
18	Care solid collector	Each day (after the last operation)	Clean the filter of the solid collector.	Vacuum suction will become weak.	Clean the filter in accordance with "Care and Maintenance" section of this manual.
19	Care oil mist separator	Once every month	Gauze etc. of oil mist separator shall not saturate with oil.	Handpiece will not work properly due to the inferior exhaust.	Discharge the oil in accordance with "Care and Maintenance" section of this manual.

MAINTENANCE AND INSPECTION

Guide for Periodical Check-up

- Some parts and components of the products are degraded or deteriorated depending on the frequency of use. Annual check-up and maintenance, as well as replacement of consumable parts, are required.
- The required parts (including consumable parts) are listed below. It may be different from the following list depending on the option of the unit.
- For check-up and repair, call a technician of our authorized dealer.

Parts and components that require periodical check-up

No.	Parts Description	Standard Lifetime	No.	Parts Description	Standard Lifetime
1	Vacuum handpiece body	3 years	8	Regulator	3 years
2	Saliva ejector handpiece body	3 years	9	Valves	3 years
3	Foot controller	5 years	10	Switches	5 years
4	Water supply hose	3 years	11	Pressure gauge	3 years
5	Drain hose	3 years	12	Arm section of moving part	7 years
6	Air supply hose	3 years			
7	Electric wiring of moving part	5 years			

Consumable parts

No.	Parts Description	No.	Parts Description
1	Valve for vacuum handpiece body	6	Filter (Air & Water)
2	Handpiece tubings	7	O-ring, Packing, Diaphragm
3	Vacuum hose		
4	Saliva ejector hose		
5	Filter for oil mist separator		



WARNING

**Execute the maintenance in accordance with this instruction manual and operating manual attached to each individual equipment (Dental light, Handpiece, etc..).
Failure to maintain this product may lead to physical injury or property damage.**

NOTE



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