SIDEBOX (CONTINUED)

WATER QUICK DISCONNECT (QD) OUTLET AND FLOW CONTROL ADJUSTMENT

Secure 1/4" water QD into port and adjust water flow. Turn the flow control adjustment knob counter clockwise to increase the flow, clockwise to decrease the flow (FIG. 6).

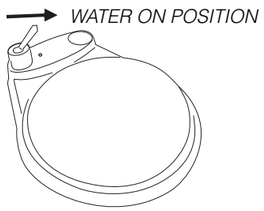
AIR QUICK DISCONNECT (QD) OUTLET AND FLOW CONTROL ADJUSTMENT

Secure 3/8" air QD into port and adjust air flow. Turn the flow control adjustment knob counter clockwise to increase the flow, clockwise to decrease the flow (FIG. 6).

FOOT CONTROL

FIG. 8: WET/DRY

Regulates drive air and water to the active handpiece. To operate, apply pressure to the foot control for drive air. Flip the toggle toward the red dot to turn the water on.



GRAVITY DRAIN CUSPIDOR

⚠ *WARNING: Refer to Forest™ Operatory Equipment Asepsis Operator's Guide for infection control procedures.*

MAINTENANCE: After each patient thoroughly rinse the bowl and pour a few cups of water down the drain to flush out the line to prevent build up of material in the drain tubing. At the end of the day, Forest recommends flushing the drain line with a sanitizing vacuum line cleaner that is non-toxic and environmentally safe. The drain screen in the bottom of the bowl lifts out for cleaning. For replacement disposable screens, order part # 0010-626 white or 0010-626-BLK black (pkg of 50).

NOTE: All controls for the Gravity Drain Cuspidor are located on the cuspidor assembly.

FIG. 9: DELUXE CUSPIDOR CONTROLS TOP VIEW

Rotate the bowl rinse spout to desired position for bowl rinsing.

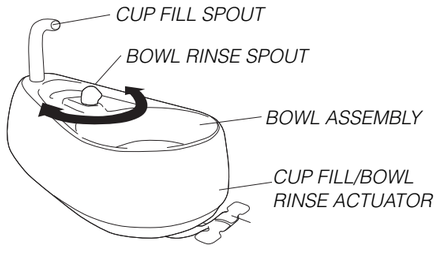


FIG. 10: DELUXE CUSPIDOR CONTROLS UNDERNEATH VIEW

The actuator activates the timed cup fill and bowl rinse cycles. Swivel the actuator to desired position. Press symbol to activate. Cup fill and bowl rinse cycle adjustment knobs change the cycle time. Turn clockwise to increase, counter clockwise to decrease the cycle time.

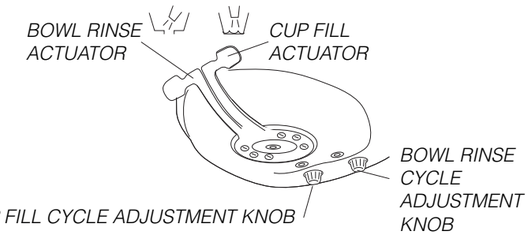


FIG. 11: BASIC CUSPIDOR

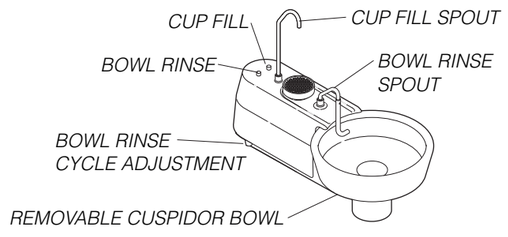
CUSPIDOR BOWL: The cuspidor bowl can be lifted out for cleaning or to clean the bowl socket. After removing the cup fill and bowl rinse spouts, lift the plastic cover from the cuspidor. Lift the cuspidor bowl straight up from its socket. Visually inspect the condition of the o-rings. If found to have cracks, nicks or missing portions they should be replaced; order part #0015-141 (sold individually).

BOWL RINSE CYCLE ADJUSTMENT: Allows for adjusting the length of time that water will flow into the bowl. Turn the knob clockwise to increase the time, counter clockwise to decrease the cycle time.

BOWL RINSE: Activates the timed bowl rinse, which provides a stream of water for rinsing. Press the button to activate the bowl rinse.

CUP FILL: Activates the cup fill, which provides a flow of water to the cup. Press the button to activate the cup fill.

SPOUTS: Pull upward on the spouts to remove. Visually inspect the condition of the o-rings, if found to have cracks, nicks or missing portions they should be replaced; order part #0015-110 (pkg of 10). Reinstall o-rings onto spouts and insert into cuspidor by pushing them through the cover securely, into their sockets.



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CE 0459

Forest DENTALEZ

Refer to Forest™ General Information Operator's Guide for Glossary of Symbols, Terms, EMC/Electrical Safety Declaration and User Guidance.

INDICATIONS FOR USE/INTENDED USE The dental units are intended to serve as a base for ancillary dental devices and accessories by providing air, water, vacuum, and low voltage electrical power to hand-held dental instruments. The dental units are intended for use by dental practitioners to provide diagnostic and therapeutic treatment to dental patients in a clinical environment. There are no contraindications for this product.

INTENDED POPULATION There are no restrictions on patient population that may be treated by Forest Equipment.

EXPECTED SERVICE LIFE

With proper maintenance and service, Forest products are designed for a defined "service life" under normal use (based on approximately 50 patients per week) of 5 years from the date of manufacture, with the exception of serviceable components. Some components may become obsolete due to changes in technology or due to product improvements and may necessitate product updates or upgrades. At the end of the defined service life, all products require examination by a trained service technician prior to continued use. Following this, additional examinations are required every 5 years. Minimum required servicing includes regular replacement of the exhaust canister gauze and solids canister disposable trap as well as periodic evaluation and replacement of the utility box air/water particle filters, anti-retraction valves, water bottle and functional assessment of product.

TECHNICAL DESCRIPTION/SPECIFICATIONS

Input voltage	24VAC/12 VAC (Supplied by remote power supply)
Protection against electrical dangers	Class 1, Type B
5% duty cycle	Maximum 30 sec. ON/Minimum 9.5 minutes OFF
Delivery standard flex arm load limit	4.5 lbs (Euro style does not use standard flex arm)
Delivery heavy duty flex arm load limit	8 lbs
Air pressure	80 PSI Maximum
Air flow rate	3 gallons per minute
Humidity limit	<-20° C at 1 atmospheric pressure
Oil contamination	<0.5mg/m³
Particle contamination limit	<100 particles/m³ for 1µm to 5µm particle size
Water pressure	40 PSI Maximum
Water flow rate	6 quarts per minute
Water hardness	39mg/dl
PH limits	6.5-8.5
Particle size	<100µm Maximum
Suction system - Type 1: high volume vacuum flow rate	Minimum 9 cfm/Maximum 24 cfm
Vacuum static pressure	Minimum 0 Hg/Maximum 20 Hg

HVE/SE suction head loss

Nl/min	Unit CFM	Pump CFM	Calculated Head Loss
90	0.46	0.8	43%
150	0.97	1.4	31%
200	1.02	1.5	32%
250	1.28	1.8	29%
300	1.54	1.9	19%
350	1.79	2.3	22%
400	2.04	2.6	22%

⚠ *WARNING: Operation of delivery system ancillary devices may cause electromagnetic interference with other devices in the immediate vicinity. In the event of an emergency, disconnect power to the dental system. Refer to Forest General Information Operator's Guide EMC table.*

⚠ *CAUTION: Federal law restricts this device to sale by or on the order of a dental practitioner licensed by the law of the state in which he/she practices to use or order the use of the device.*

⚠ *CAUTION: No user-serviceable parts are located in the dental system (except for handpiece exhaust canister gauze, refer to FIG. 2 on page 2 and vacuum canister disposable trap, refer to FIG. 5 on page 3). Air and water particle filters located in the utility box are non-serviceable (35µm); replace using Forest authorized dealer if clogged or low flow.*

WATER LINE MAINTENANCE

Dental unit water lines, reservoir water bottles and water distillers/processors contain bacteria (unless sterile water is used), measured in colony forming units per milliliter (CFU/mL) of heterotrophic water bacteria. The bacteria, if not controlled, can reach elevated levels and form into biofilms on the walls of the plastic tubing that can be resistant to microbial treatment.

The CDC recommends using procedural water in routine dentistry that does not exceed 500 CFU/mL. To achieve these levels, Forest™ suggests an action level of 250 CFU/mL to limit microbial proliferation. By closely following both the Forest and water treatment product manufacturer's instructions for use (IFU), it is possible to maintain procedural water within CDC guidelines.

⚠ *WARNING: Refer to Forest Dental Unit Water Line Maintenance Operator's Guide for monitoring and disinfection of your dental unit water lines and dental unit reservoir bottle as well the monitoring of source water.*

SELF-CONTAINED CLEAN WATER SYSTEM WITH QUICK-DISCONNECT BOTTLE

⚠ *WARNING: Refer to Forest Operatory Equipment Asepsis Operator's Guide for infection control procedures.*

⚠ *WARNING: Self-contained water systems do not control bacteria levels or prevent biofilm from accumulating in the dental unit water lines. This can only be achieved by flushing, monitoring and maintaining the dental unit water lines according to Forest Dental Unit Water Line Maintenance Operator's Guide. Dental units do not deliver sterile water. Sterile solutions must be used as a coolant/irrigant for all surgical procedures from an isolated source (such as a sterile bulb syringe or sterile tubing that bypasses DUWL) as recommended by the CDC.*

⚠ *WARNING: Isolated water sources (as opposed to city water hook-up) are highly recommended to allow full control of the source and quality of water circulating through the dental unit water line.*

The self-contained water system allows you to isolate your practice from the municipal water supply. The self-contained water system uses a pressurized bottle to supply water to the dental unit giving you full control of the source and quality of the water.

STEP 1: Ensure that the dental unit is turned off. Fill the water bottle from a known potable source with the adapter attached, then install on the manifold by turning clockwise (FIG. 1).

STEP 2: Turn the dental unit on and check for leakage at the bottle. If air or water leakage is observed, turn the dental unit off and allow several seconds for air pressure to be released from the bottle.

⚠ *WARNING: Never attempt to remove the bottle when it is pressurized.*

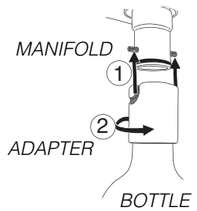
STEP 3: Remove bottle and install a new bottle with adapter.

STEP 4: Turn the dental unit on and check for leakage at the bottle as previously described.

⚠ *WARNING: Only use water bottles supplied by Forest. Do not use soft drink bottles which are thin walled and may rupture when under pressure. When using self-contained water systems, all plastic bottles should be inspected for damage prior to every use. If a bottle appears to be damaged in any manner, it should be replaced. When filling the reservoir water bottle, leave an air gap at the top of bottle to allow the bottle to pressurize. Do not attempt to adjust the water bottle pressure. Bottle pressure is factory pre-set at 40 PSI. Pressurizing the water bottle over 40 PSI may cause the bottle to rupture.*

FIG. 1: QUICK-DISCONNECT BOTTLE

ℹ *NOTE: This quick-disconnect bottle allows for a quick and easy way to change water bottles. Simply push up and turn clockwise to install bottle. Turn counter clockwise to remove bottle.*

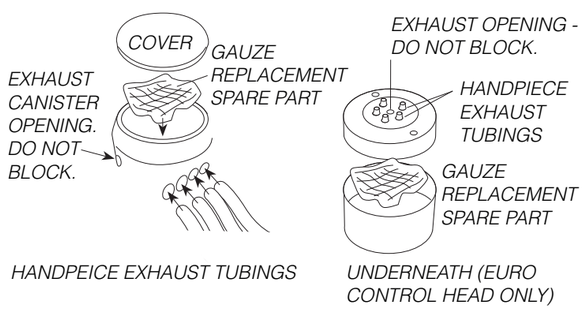


HANDPIECE EXHAUST

Located inside every control head (Euro: Canister underneath control head) is an exhaust canister. The sole purpose is to trap excess oil to prevent it from spraying the inside of your control head while exhausting your handpieces (FIG. 2).

Before exhausting the handpieces, make sure that there is a 2" x 2" gauze pad inside the canister. This is to collect and absorb the excess oil. To prevent handpiece lubrication from contaminating the interior of the control head, make certain the drip exhaust lines remain inside the canister.

FIG. 2: EXHAUST CANISTER



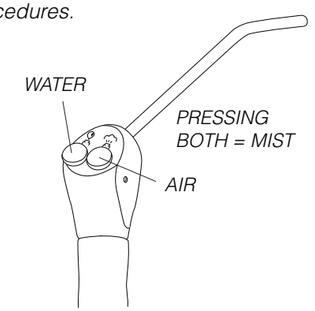
ℹ *NOTE: Forest recommends changing the gauze biweekly or when visibly saturated.*

ASSISTANT'S INSTRUMENTATION & VACUUM

⚠ *WARNING: Refer to Forest™ Syringe Reprocessing and Maintenance Operator's Guide as well as Forest HVE/SE Reprocessing and Maintenance Operator's Guide for infection control procedures.*

FIG. 3: SYRINGE

The syringe is an instrument powered by a dental unit intended to supply air and water to the oral cavity of dental patients. Press water button to activate water; press air button to activate air. Pressing both buttons will create a mist.

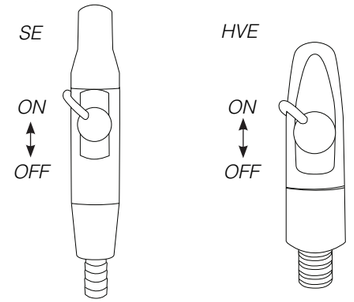


⚠ *WARNING: Forest syringes (excluding syringe tip) must be operated with FDA-cleared barrier protection (FDA Product Code: PEM) during a procedure following Forest's instruction for use; Forest syringe tip must be sterilized between patients.*

⚠ *WARNING: Refer to Forest Dental Unit Water Line Maintenance Operator's Guide for detailed procedures on maintaining syringe water line.*

FIG. 4: SALIVA EJECTOR & HIGH VOLUME EVACUATOR (HVE)

Flip the lever up to turn on and reverse to turn off.



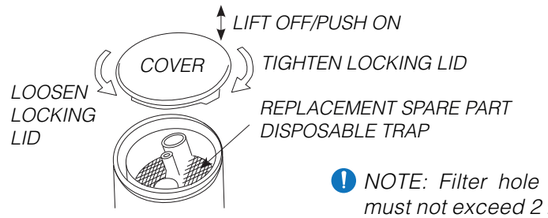
The High Volume Evacuator (HVE) and Saliva Ejector (SE) is an instrument powered by a dental unit to evacuate waste from the oral cavity of dental patients.

At the end of the day, Forest recommends flushing the drain line with a sanitizing vacuum line cleaner that is non-toxic and environmentally safe.

⚠ *WARNING: Always instruct patients to keep mouth open during evacuation procedures. Closing lips around HVE/SE disposable tip can reduce vacuum force and allow biocontamination from the device to enter the patient's mouth.*

⚠ *WARNING: Forest HVE/SE assemblies (excluding disposable extraction tip) must be operated with FDA-cleared barrier protection (FDA Product Code: PEM) during a procedure following Forest's instruction for use; extraction tips must be disposed of between patients.*

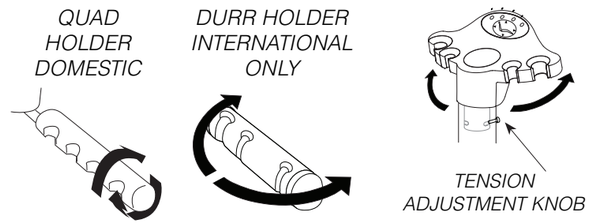
FIG. 5: CANISTER



ℹ *NOTE: Filter hole size must not exceed 2 mm.*

Loosen and remove canister lid to access trap for disposal. Replace with new trap. Depending on model, either press lid into opening to secure or if locking lid, press lid and turn to tighten.

FIG. 6: ASSISTANT'S HOLDERS

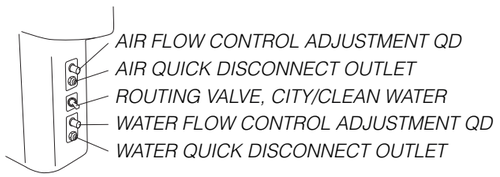


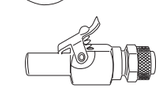
The assistant's holder tension adjustment knob allows operator to easily alter the holder position. Turn adjustment knob counter-clockwise to decrease tension; clockwise to increase tension. Tighten tension adjustment knob to secure assistant's holder into preferred position.

SIDEBOX

All controls for the sidebox are located on the front panel.

FIG. 7: SIDEBOX CONTROLS





3/8" AIR QD CONNECTOR

1/4" WATER QD CONNECTOR

ROUTING VALVE, CITY/CLEAN WATER

Toggle allows selection between the bottle water supply or water supplied from the office plumbing.

⚠ *WARNING: Refer to Forest Dental Unit Water Line Maintenance Operator's Guide for monitoring and disinfection of your dental unit water lines and dental unit reservoir bottle as well the monitoring of source water.*