

# OPERATORY EQUIPMENT MAINTENANCE & BEST PRACTICES

## Clean & flush the vacuum lines daily

Flush the vacuum lines on a daily basis to prevent buildup of debris inside the lines and pump. The buildup will reduce suction or damage the pump.



HAYES part # HA-23.ESC

Approved by SolmeteX®.  
Will not damage amalgam separation units



HAYES part # HA-23.5000-1

1 gallon Evac Dispenser container is convenient to use with Evac System Cleaner

- Always start with the operatory furthest from the vacuum pump
- Squeeze the dispenser bottle to measure 1 ounce of Hayes Evacuation System Cleaner and pour into 1 gallon of cool tap water to make a working solution. Hot water is not necessary
- Use 1 quart of working solution per operatory by aspirating the solution by placing the HVE and saliva ejector valve just above the solution surface to allow for the incorporation of air
- Merely placing the valve into the solution could disrupt pump function
- Pour remainder of fluid down cuspidor or drain
- Repeat these steps for the remaining operatories and turn off the vacuum when complete
- Or use your evacuation cleaner of choice according to manufacturer instructions. Never use cleaners that create excessive foam which will damage the vacuum pump or the amalgam separator if applicable

## Clean vacuum valve & trap weekly



- Disassemble the vacuum valve and clean with brushes thoroughly. Lubricate o-rings and replace if necessary
- If the vacuum leaks when the valve is closed, replace the cartridge
- If you have a wet ring pump, empty the trap at the vacuum pump and clean it out. Material will build up in the trap which will reduce suction or damage the pump. Make sure to use utility gloves, safety goggles and a mask when performing this task to deal with the splash-back and odors. Refer to the manufacturer instructions for proper removal and cleaning of the trap or talk to your local Hayes office

## Clean & maintain your dental unit waterlines

Standing water in small tubes inside the dental unit creates microbial contamination which results in odors, blocked waterlines, intermittent water spray, and bacteria in the water.

### Mint-A-Kleen®

HAYES part #HA-26.WCS

Follow the "Initial Cleaning" instructions then "Routine Cleaning".

Use weekly for routine cleaning.

- Empty water bottle and place on dental unit. Air purge waterlines by activating handpiece hoses and syringes until water is eliminated
- Add 4 oz. of Mint-A-Kleen (do not dilute) into dental unit's empty water bottle—place back onto dental unit. Activate hoses and syringes until Mint-A-Kleen exits. Allow Mint-A-Kleen to treat waterlines for at least 12 hours
- After treatment, remove bottle, empty, then fill with water source. Flush waterlines for 30 seconds to remove Mint-A-Kleen



**DentaPure** HAYES part #DP-365B

Hayes recommends shocking your system prior to installing DentaPure

Replace Yearly

- Install DentaPure by connecting to your existing bottle system (kit included)\*
- No maintenance, purging, additional shocking, or testing is needed at least 365 days or until iodine levels fall below .5ppm

\* Also available for direct connection to municipal water



**Sterisil® Straw** HAYES part #S365

Includes one automatic shock treatment for initial use for optimum control of bacteria, plus a single once-a-year treatment straw

- Remove your existing pickup tube, and install the new pickup tube with the Sterisil Straw on the barb fitting
- Distilled or purified municipal water is recommended for optimum product performance and dental composite bonding
- One Sterisil Straw will continuously disinfect dental unit waterlines for 365 days

**Citrisil™ & Citrisil™ Blue Tablets** HAYES part #C20-2B & C20-2W

Includes initial shock treatment tablet plus ongoing maintenance tablets

- Start with one Citrisil Shock tablet (orange tablet) and follow with one Citrisil (white) or Citrisil Blue tablet per refill of each self-contained water bottle
- Using distilled or purified tap water, the tablet effervesces and provides a pH balanced treatment
- Citrisil Blue produces a light blue tint for visual compliance
- Use one tablet for 0.7 to 1 liter bottle or a 2-liter tablet for a 2-liter bottle

### ADEC ICX Tablets

You must shock your system prior to using this product for ongoing maintenance\*



- Use approximately 1 tablet per day per empty water bottle
- Drop tablet into empty water bottle
- Fill bottle with water
- Wait 120 seconds for tablet to dissolve
- Do not touch the tablets with bare fingers
- Test water monthly to start for first 3 months, then once every 3 months pending test results
- Shock water based on test results
- Use distilled water for best results

\*Does not kill biofilm

## Inspect handpiece couplers weekly



HAYES part #S59884 - Swivel o-ring kit (2 sets)

- Inspect the O-rings to make sure they are still on and not worn or torn
- Replace coupler O-rings every 6 months

## Check your syringe



HAYES part #DCI-3430 & DCI-3600 (syringes)  
HAYES part #DCI-2305 (small o-ring)  
HAYES part #DCI-2242 (larger o-ring)

- Change the O-rings on your syringe quarterly
- Replace buttons periodically to prevent sticking and leaking
- Make sure your waterlines are treated properly to prevent buildup in the syringe

## Ultrasonic unit maintenance



- Disinfect the surfaces of the cabinet, cords, cables, foot pedal and supply lines according to manufacturer instructions, but never spray disinfectant solution directly on system surfaces
- Make sure to use the low power settings with thin inserts
- When the water line filter becomes discolored, the filter should be replaced to prevent reduced water flow
- We recommend bleeding the unit by holding the sheath/handle upright, so bubbles come to the top. Bleed the unit for 30 seconds to 1 minute. Be sure to let off the rheostat several times and then start again, the push of more water will remove air bubbles from the sides of the tubing. Bleed until no bubbles appear. This prevents air bubbles in the lines, which cause the sheath and tip to overheat. Overheating of the sheath and tip is noticeable to the operator and the patient. Piezo units do not require bleeding
- Measure ultrasonic tips regularly for wear
- Proper waterline treatment is essential for ultrasonic unit performance

Refer to our Instrument Maintenance Poster for ultrasonic insert information

## Check dental unit air pressures yearly

High air pressures will cause damage to the handpieces and low air pressures will not provide sufficient power. Refer to PSI chart.



Handpiece Make/Model	Recommended Air Pressure (in PSI)	Handpiece Make/Model	Recommended Air Pressure (in PSI)
<b>Adec-W&amp;H</b>		<b>Morita</b>	29-42
Top Air/Top Flight	32	<b>MK-dent</b>	
96 & 98 Series	42	All high-speeds	35
<b>Athena</b>		<b>Midwest</b>	
Champion	32	Quiet Air Std/Lever	32
<b>Canister Type</b>	32-40	Tradition Std/Lever	32
<b>Dentex</b>		Tradition Push Button	35
All M3 high-speeds	34-40	XGT Push Button	35
<b>KaVo</b>		Stylus	40
632B/642B/643B/645B	32	<b>NSK</b>	
630B/640B	32	All high-speeds	35
635B	33	<b>Star</b>	
647B	36	430SW	30-32
6000B/6500B	38	Solara Flex	40-42
649B	40	430SWL	34-42
<b>Lares</b>		Solara Flex Plus	45-47
330E/557 Turbo	32		
557/757 Ultralite/Euro	32-40		



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