

SYNOPSIS OF DENTAL UNIT WATERLINE TREATMENT PRODUCTS AND DEVICES*

Product	BioClenz™	Dentacide®	DentaPure® DP40 Cartridge
			
Manufacturer	Frontier Pharmaceutical, Inc. 10 Ponderosa Ave Melville, NY 11747 www.frontierpharm.com	Frio Technologies Inc. 500 Sandau, # 200 San Antonio, TX 78216 www.dentacide.com	MRLB International, Inc. 2450 College Way Fergus Falls, MN 56537 www.dentapure.com
Phone/FAX Numbers	(800) 767-3486 (612) 861-4539 (612) 861-4573 FAX	(210) 308-5635 (210) 308-6196 FAX	(800) 972-3543 (218) 739-2222 (218) 736-3241 FAX
Government Representative	Don Holton	T. Edmiston	Gene Heil
Shelf-life	1 year	1 year	5 years
Active Ingredient(s)	Activated chlorine dioxide	Proprietary iodine formulation	Elemental iodine
Application	Continuous and Periodic	Periodic	Continuous
Protocol Summary†	Add low-concentrate solution each time the water bottle is filled; once weekly treatment with high concentrate solution.	Twice-weekly (overnight and over the weekend) treatment with undiluted product.	Attaches to pick-up tubing in water bottle (lasts for 30L of water usage; 40 working days).
Initial "Shock" Treatment	No recommendation.	Overnight and weekend treatment for the first 30 days.	To obtain maximum bacteriological reduction, dental unit waterlines should be cleaned with an approved waterline agent prior to initial installation.
Monitoring Recommendation	Monthly.	Initially monitor after one month of Dentacide® use, then every three months. Monitor if unit is repaired or if the unit has been out of use.	No recommendation.
Price	\$174.00 Retail \$95.00 Government	\$149.88 Retail \$83.40 Government	\$79.95 Retail \$24.99 Government
Package Contents	Two gallon set (one gallon of Part A and one gallon of Part B).	Case of 12 16-oz bottles.	One cartridge and installation hardware.
DIS Estimated Annual Operating Cost per Operator‡	Annual Cost Per Operator \$72 Retail \$39 Government	Annual Cost Per Operator \$150 Retail \$83 Government	Annual Cost Per Operator \$640 Retail \$200 Government
Evaluated by DIS	Click here for evaluation	Click here for evaluation	Click here for evaluation

* The manufacturers provided data in this table (other than the DIS estimated annual operating costs). The listing or omission of a product in this table does not imply endorsement, approval, or disapproval by DIS.

† For complete protocol refer to manufacturer's instructions.

‡ Assumptions: 240 liter annual water usage per operator (1.0L of water per operator daily, 5 days/wk, 48 wks/yr [92.3% operator usage]). Costs listed are annual usage costs only - does not include initial equipment costs (if any) or the cost of source water (if other than tap water is used).

SYNOPSIS OF DENTAL UNIT WATERLINE TREATMENT PRODUCTS AND DEVICES*

Product	DentaPure® DP365 Cartridge	ICX™	Lines™
			
Manufacturer	MRLB International, Inc. 2450 College Way Fergus Falls, MN 56537 www.dentapure.com	A-dec 2601 Crestview Dr Newberg, OR 97132 www.a-dec.com	Zenith/Micrylium Foremost Dental LLC 242 South Dean Street Englewood, NJ 07631 www.micrylium.com
Phone/FAX Numbers	(800) 972-3543 (218) 739-2222 (218) 736-3241 FAX	(800) 547-1883 (503) 538-7478 (503) 537-2702 FAX	(800) 489-8868 (201) 894-5500 (201) 894-0213 FAX
Government Representative	Gene Heil	Bethany Ryan	Dean Swift
Shelf-life	5 years	1 year	2 years
Active Ingredient(s)	Elemental iodine	Sodium percarbonate, silver nitrate & cationic surfactants	Ethanol and chlorhexidine
Application	Continuous	Continuous	Periodic
Protocol Summary†	Install near junction box of dental units connected to municipal water systems (lasts for 220 working days or 1 calendar year). Note: Self-contained water reservoir not required.	Add one tablet each time the water bottle is filled.	Weekly overnight (weekend) treatment with undiluted product.
Initial “Shock” Treatment	For maximum bacteriological reduction, dental unit waterlines should be cleaned with an approved waterline agent prior to initial installation.	If test results indicate that water does not meet water quality goals, follow initial startup product instructions for Sterilex Ultra®.	Overnight weekend treatment. If unit not previously treated with Lines, use full strength product daily for three weeks.
Monitoring Recommendation	No recommendation.	Monitor water bacterial counts weekly or at other appropriate intervals based on established results.	Six-month intervals with Micrylium test kit.
Price	\$674.95 Retail \$214.99 Government	\$1080.00‡ (0.7L bottle) Retail \$641.47‡ (0.7L bottle) Gov't	\$99.95 Retail \$69.97 Government
Package Contents	One cartridge and installation hardware.	Case of 36 boxes with 50 individually foil wrapped tablets each.	Case of ten 500 mL bottles (Lines™ 6L “bag-in-box” for \$109.95 retail/\$76.97 government).
DIS Estimated Annual Operating Cost per Operator§	Annual Cost Per Operator \$675 Retail \$215 Government	Annual Cost Per Operator \$288 Retail \$171 Government	Annual Cost Per Operator \$58 Retail \$40 Government
Evaluated by DIS	Not evaluated	Click here for evaluation	Click here for evaluation

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‡ Pricing of tablets for use in 2.0 L bottle: \$1620.00 (retail) and \$962.21 (govt).

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SYNOPSIS OF DENTAL UNIT WATERLINE TREATMENT PRODUCTS AND DEVICES*

Product	MicroCLEAR™ 	Mint-A-Kleen 	PureLine50 
Manufacturer	Rowpar Pharmaceuticals, Inc. 16100 N. Greenway Hayden Loop F-400 Scottsdale, AZ 85260 www.rowpar.com	Anodia Systems 109 Larrimore Lane Danville, KY 40422 www.anodiasystems.com	Sterisil, Inc. 200 South Wilcox #417 Castle Rock, CO 80104 www.sterisil.com
Phone/FAX Numbers	(800) 643-3337 (480) 948-6997 (480) 948-5918 FAX	(866) 246-2548 (859) 236-4778 (866) 926-8246 FAX	(877) 755-7873 (719) 481-0937 (719) 481-0349 FAX
Government Representative	_____	Dr. Thad Overmyer	Craig Hofmeister
Shelf-life	2 years	2 years	Indefinite
Active Ingredient(s)	Chlorine dioxide	Glycerin and Chlorhexidine Gluconate	Ionized silver resin
Application	Continuous	Periodic	Continuous
Protocol Summary†	Add 1:10 dilution each time the water bottle is filled.	Depends on water quality—generally weekly overnight treatment with undiluted product.	Water purification system (filtration, reverse osmosis, germicide, UV irradiation); fill water bottles from central system or plumb directly to operatories. Annual filter change.
Initial “Shock” Treatment	Full strength overnight treatment.	Full strength treatment each night for one week; use twice weekly for next four weeks	If using self-contained reservoir, fill with PureLine water, flush lines, rinse after overnight treatment.
Monitoring Recommendation	No recommendation.	After using the product for 2 months check water with a commercial laboratory and follow-up testing every 6 months.	After start-up test at 1 week, then quarterly.
Price	\$35.00 Retail \$28.00 Government	\$99.95 Retail \$64.97 Government	\$4995.00** Retail \$2549.45** Government
Package Contents	Two gallons of MicroCLEAR™ and pumps.	10 16-oz bottles.	One PureLine50, two bladder tanks, tubing and fittings.
DIS Estimated Annual Operating Cost per Operator[§]	Annual Cost Per Operator \$111 Retail \$89 Government	Annual Cost Per Operator \$60 Retail \$39 Government	Varies by facility size <u>Retail</u> \$40 per oper if 40 oper \$160 per oper if 10 oper <u>Govt</u> \$20 per oper if 40 oper \$82 per oper if 10 oper
Evaluated by DIS	Click here for evaluation	Under evaluation	Not evaluated

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** Annual filter replacement kit: \$1600.00 (retail) and \$815.49 (govt)

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SYNOPSIS OF DENTAL UNIT WATERLINE TREATMENT PRODUCTS AND DEVICES*

Product	PureTube™ BR360 Cartridge	PureTube PLUS™	Selective Micro® DENTAL-CLEAN
			
Manufacturer	Sterisil, Inc. 200 South Wilcox #417 Castle Rock, CO 80104 www.sterisil.com	Sterisil, Inc. 200 South Wilcox #417 Castle Rock, CO 80104 www.sterisil.com	Selective Micro Technologies 66 Cherry Hill Drive Suite 230 Beverly, MA 01915 www.selectivemicro.com
Phone/FAX Numbers	(877) 755-7873 (719) 481-0937 (719) 481-0349 FAX	(877) 755-7873 (719) 481-0937 (719) 481-0349 FAX	(978) 927-6610 ext 20 (978) 927-6088 FAX
Government Representative	Craig Hofmeister	Craig Hofmeister	Paul Butler
Shelf-life	Indefinite	Indefinite	2 years
Active Ingredient(s)	Ionized silver resin	Ionized silver resin	Chlorine dioxide
Application	Continuous	Continuous	Periodic
Protocol Summary†	Attaches to pick-up tubing in water bottle (lasts for one year). Quarterly treatments with activator provided with PureTube™ BR360.	Point -of-use water purification device (lasts for 90 days). Note: Self-contained water reservoir not required.	Twice monthly and annual overnight treatment: fill DENTAL-CLEAN pouch with tap water, wait 60 minutes for activation.
Initial “Shock” Treatment	Use the Sterisil ShockTube SKB for one week.	PureTube PLUS™ is engineered to provide a “shock” treatment prior to use.	Overnight treatment: fill DENTAL-CLEAN pouch with tap water, wait 60 minutes for activation.
Monitoring Recommendation	After start-up test at 1 week, then quarterly.	After start-up test at 1 week, then quarterly.	No recommendation.
Price	\$340.00 Retail \$187.00 Government	\$85.00 Retail \$46.75 Government	\$16.35 Retail \$13.90 Government
Package Contents	One PureTube™ BR360 cartridge and antimicrobial bottle.	One PureTube PLUS™.	One Selective Micro® DENTAL-CLEAN pouch.
DIS Estimated Annual Operating Cost per Operator‡	Annual Cost Per Operator \$340 Retail \$187 Government	Annual Cost Per Operator \$340 Retail \$187 Government	Annual Cost Per Operator \$69 Retail \$59 Government
Evaluated by DIS	Not evaluated	Not evaluated	Click here for evaluation

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‡ Assumptions: 240 liter annual water usage per operator (1.0L of water per operator daily, 5 days/wk, 48 wks/yr [92.3% operator usage]). Costs listed are annual usage costs only - does not include initial equipment costs (if any) or the cost of source water (if other than tap water is used).

SYNOPSIS OF DENTAL UNIT WATERLINE TREATMENT PRODUCTS AND DEVICES*

Product	Sterilex® Ultra Liquid	Sterilex® Ultra Powder	Sterilox™
			
Manufacturer	Sterilex Corporation 11409 Cronhill Drive Ste L Owings Mills, MD 21117 www.sterilex.com	Sterilex Corporation 11409 Cronhill Drive Ste L Owings Mills, MD 21117 www.sterilex.com	Ultradent Products, Inc. 505 West 10200 South South Jordan, UT 84095 www.ultradent.com
Phone/FAX Numbers	(800) 511-1659 (410) 581-8860 (410) 581-8864 FAX	(800) 511-1659 (410) 581-8860 (410) 581-8864 FAX	(800) 552-5512 (801) 553-4915
Government Representative	Faith M. Insley	Faith M. Insley	Pete Lund (Western US) Doug Stahura (Eastern US)
Shelf-life	1 year	2 years	Electrolyte solution 18 mths/ hypochlorous acid 48 mths
Active Ingredient(s)	Alkaline proxygen with phase transfer catalyst	Alkaline proxygen with phase transfer catalyst	Electrolyte solution & generator produces hypochlorous acid
Application	Periodic	Periodic	Continuous
Protocol Summary†	Weekly overnight treatment with undiluted product.	Weekly overnight treatment with diluted product.	Add 20 mL of hypochlorous acid solution each time the water bottle is filled.
Initial “Shock” Treatment	Overnight treatment for 3 consecutive nights.	Overnight treatment for 3 consecutive nights.	Initial 6-8 hour treatment with full strength hypochlorous acid.
Monitoring Recommendation	No recommendation.	No recommendation.	No recommendation.
Price	\$54.00 Retail \$30.65 Government	\$48.00 Retail \$24.24 Government	\$3999.00 Retail \$3399.15 Government
Package Contents	1 carton of 10 sets (each bottle set can treat 2-3 operatories).	20 packets (each packet can treat 2-4 operatories).	Sterilox generator, 1 case of four 1-gallon jugs of electrolyte solution, 1 bottle of free chlorine check strips, 3 medical-grade silicone uptake tubes.
DIS Estimated Annual Operating Cost per Operator‡	Annual Cost Per Operator \$86 Retail \$49 Government	Annual Cost Per Operator \$29 Retail \$15 Government	Annual Cost Per Operator \$32 Retail \$27 Government
Evaluated by DIS	Not evaluated	Click here for evaluation	Not evaluated

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‡ Assumptions: 240 liter annual water usage per operator (1.0L of water per operator daily, 5 days/wk, 48 wks/yr [92.3% operator usage]). Costs listed are annual usage costs only - does not include initial equipment costs (if any) or the cost of source water (if other than tap water is used).

SYNOPSIS OF DENTAL UNIT WATERLINE TREATMENT PRODUCTS AND DEVICES*

Product	Team Vista™ Waterline Cleaner Combo Pack	VistaClear™ Integrated System #2970	VistaClean™ Irrigant Solution Concentrate
			
Manufacturer	Pelton and Crane 11727 Freuhauf Dr. Charlotte, NC 28273 www.pelton.net www.vistaresearchgroup.com	Pelton and Crane 11727 Freuhauf Dr. Charlotte, NC 28273 www.pelton.net www.vistaresearchgroup.com	Pelton and Crane 11727 Freuhauf Dr. Charlotte, NC 28273 www.pelton.net www.vistaresearchgroup.com
Phone/FAX Numbers	(800) 659-3212 ext 103 (704) 587-7286 (704) 587-7266 FAX	(800) 659-3212 ext 103 (704) 587-7286 (704) 587-7266 FAX	(800) 659-3212 ext 103 (704) 587-7286 (704) 587-7266 FAX
Government Representative	George Szaloney	George Szaloney	George Szaloney
Shelf-life	6 yrs VistaClean™/4 yrs VistaTab™	Indefinite	6 years
Active Ingredient(s)	Botanical extract from citrus and sodium chlorite	Multi-stage biochemical filter	Botanical extract from citrus
Application	Continuous and Periodic	Continuous and Periodic	Continuous and Periodic
Protocol Summary[†]	Add VistaClean™ each time the water bottle is filled; monthly treatment with VistaTab™	System integrated within dental unit. Filters water and automatically adds VistaClean™ Plus as a continuous cleaner. Treat lines with VistaTab™ cleaner monthly. Annual filter change.	Add diluted product each time the water bottle is filled; monthly treatments alternating VistaTab™ and higher concentration of VistaClean™.
Initial “Shock” Treatment	Three consecutive treatments of all lines with VistaTab™—detailed instructions provided with the product.	Three consecutive treatments of all lines—detailed instructions provided with the product.	Three consecutive treatments of all lines—detailed instructions provided with the product.
Monitoring Recommendation	Monitor lines in each operatory monthly. If counts > 200 CFU/mL perform line cleaning per product instructions.	Monitor lines in each operatory monthly. If counts > 200 CFU/mL perform line cleaning per product instructions.	Monitor lines in each operatory monthly. If counts > 200 CFU/mL perform line cleaning per product instructions.
Price	\$84.00 Retail \$46.20 Government	\$575.00 Retail \$316.25 Government	\$27.00 Retail \$14.85 Government
Package Contents	Two 1-ounce bottles of VistaClean™, 15 VistaTab™ waterline cleaner tablets.	VistaClear filter system, accessories and line cleaners. Can be used with municipal water supply or source water of choice.	One 1-ounce bottle of concentrate with dropper tip and cap.
DIS Estimated Annual Operating Cost per Operatory[§]	Annual Cost Per Operatory \$118 Retail \$65 Government	Annual Cost Per Operatory \$478 Retail \$263 Government	Annual Cost Per Operatory \$110 Retail \$60 Government
Evaluated by DIS	Under evaluation	Not evaluated	Not evaluated

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§ Assumptions: 240 liter annual water usage per operatory (1.0L of water per operatory daily, 5 days/wk, 48 wks/yr [92.3% operatory usage]). Costs listed are annual usage costs only - does not include initial equipment costs (if any) or the cost of source water (if other than tap water is used).

SYNOPSIS OF DENTAL UNIT WATERLINE TREATMENT PRODUCTS AND DEVICES*

Product	VistaClear™ Waterline Treatment System 	Vista DayTab™ Waterline Irrigant Tablets 	Waterclave® Water Purifier 
Manufacturer	Pelton and Crane 11727 Freuhauf Dr. Charlotte, NC 28273 www.pelton.net www.vistaresearchgroup.com	Pelton and Crane 11727 Freuhauf Dr. Charlotte, NC 28273 www.pelton.net www.vistaresearchgroup.com	Waterclave®, LLC. 6731 W 121 st St Overland Park, KS 66209 www.waterclave.com
Phone/FAX Numbers	(800) 659-3212 ext 103 (704) 587-7286 (704) 587-7266 FAX	(800) 659-3212 ext 103 (704) 587-7286 (704) 587-7266 FAX	(913) 312-5860 (913) 312-5861 FAX
Government Representative	George Szaloney	George Szaloney	_____
Shelf-life	Indefinite	4 years	Indefinite
Active Ingredient(s)	Multi-stage biochemical filter	Stabilized chlorine dioxide	Heat and pressure treatment for a minimum of 30 minutes
Application	Continuous and Periodic	Continuous	Continuous and Periodic
Protocol Summary†	Filters all water sent to the dental unit. Models available for individual operatories or central model with dedicated plumbing can supply up to 7 operatories. Monthly system treatment with VistaClean™ or VistaTab™ cleaner. Annual filter change.	Add one tablet each time the water bottle is filled for bottles up to 1 liter. Use two tablets for 1.5 – 2.0 liter bottles.	Dedicated waterline connects Waterclave® to operatories; removes bacterial contaminants from tap water. Periodic system treatment with waterline treatment product of choice—average time span between applications is 6 months.
Initial “Shock” Treatment	Three consecutive treatments of all lines—detailed instructions provided with the product.	Three consecutive treatments using VistaTab™ cleaner tablets or a recognized line cleaning agent.	Treatment with chemical waterline treatment product of choice from injection portal on Waterclave® system.
Monitoring Recommendation	Monitor lines in each operatory monthly. If counts > 200 CFU/mL perform shock treatment per product instructions.	Monitor lines in each operatory monthly. If counts > 200 CFU/mL perform line cleaning per product instructions.	Monthly in-office testing; follow-up with independent lab if positive.
Price	\$647.00 ^{††} Retail \$355.85 ^{††} Government	\$33.00 Retail \$18.15 Government	\$17,850.00 ^{§§} Retail \$13,387.00 ^{§§} Government
Package Contents	Complete system, installation accessories, and line cleaner.	One box containing 60 individually packaged tablets.	Waterclave® unit, deionization filter, pump kit for chemical injection.
DIS Estimated Annual Operating Cost per Operatory[§]	Varies by facility size <u>Retail</u> \$152 per oper if 1 operatory \$87 per oper if 7 operatories <u>Government</u> \$84 per oper if 1 operatory \$48 per oper if 7 operatories	Annual Cost Per Operatory \$264 Retail \$145 Government	Annual Cost Per Operatory \$30 Retail \$20 Government (Electric usage not included in estimate—requires dedicated 30 amp 220 V circuit.)
Evaluated by DIS	Not evaluated	Under evaluation	Not evaluated

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† For complete protocol refer to manufacturer’s instructions.

†† Pricing for retrofitted system for one operatory. Pricing for central system is as follows: 2-3 operatories \$1935.00 (retail)/\$1064.25 (govt); 4 operatories \$2540.00 (retail)/\$1397.00 (govt); 5-6 operatories \$3750.00 (retail)/\$2062.50 (govt); 7 operatories \$3997.00 (retail)/\$2198.35 (govt). Annual filter replacement cost: \$137.00 (retail) and \$75.35 (govt) per filter; 1-4 filters needed depending on model.

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§§ Annual deionization filter cost \$200 (retail) and \$150 (govt). One filter will service approximately 10 operatories for a year