

ICX™ Waterline Treatment (Project 04-08) (8/04)

A-dec's ICX™ waterline treatment product, an effervescent tablet, is added each time the bottle is filled and takes 60 seconds to dissolve prior to use. The active ingredients are sodium percarbonate, silver nitrate and cationic surfactants that reportedly provide both immediate and sustained residual protection against biofilm formation. ICX™ reportedly continues working in the system with each treatment protecting the waterlines from further contamination and reduces (or may even eliminate) the need for frequent shock treatments. A-dec claims that since the concentration of ingredients in the water remains very low, ICX™ is non-corrosive to dental equipment and is not harmful to patients or staff. Also, the manufacturer claims that ICX™ remains active for periods of equipment non-use lasting up to two weeks. Individually foil-wrapped ICX™ tablets are available for two bottle sizes: 0.7-L and 2-L.

Manufacturer:

A-dec
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Suggested Retail Price*:

\$1080.00 0.7-Liter bottle application (Cascade, Radius, and Performa Units)
\$1620.00 2-Liter bottle application (A-dec 500 Unit)

Government Price*:

\$641.47 0.7-Liter bottle application (Cascade, Radius, and Performa Units)
\$962.21 2-Liter bottle application (A-dec 500 Unit)

*Case of 36 boxes with 50 individually foil-wrapped tablets each

ADVANTAGES:

- + Produced water meeting or exceeding EPA standards (i.e., ≤ 500 CFU/mL)
- + Simple technique
- + More time efficient than other current waterline treatment procedures
- + Tablet form eliminates time-consuming mixing
- + Provides continuous cleaning of dental unit waterlines
- + Less likely to damage dental unit components than bleach
- + Can be used with any type of source water with ≤ 500 CFU/mL (e.g., tap, distilled)
- + Eliminates the need for nightly air purging of waterlines
- + User-friendly instructions
- + Less storage space required
- + No offensive odor or taste noted
- + No clogging of dental unit waterlines or residue noted

DISADVANTAGES:

- Slightly more expensive than current waterline treatment products

SUMMARY AND CONCLUSIONS:

ICX™ is the first waterline treatment product in tablet form as compared with other available products that are antimicrobial liquid solutions or cartridges impregnated with an antimicrobial agent. Advantages of a tablet-form product include: elimination of dilution and mixing procedures; saves storage space; less time involved in the waterline treatment process; and a potential for increased compliance. ICX™ is non-corrosive, reducing the likelihood of damage to the dental unit when compared with using diluted bleach. All evaluators found ICX™ easy to use. Even though ICX™ is slightly more expensive, the time saved, compared with weekly treatment protocols, and the ease of use represent significant advantages. During the eight-week evaluation period, all dental unit water samples met the EPA standard of 500 CFU/mL or less. The vast majority of evaluators rated ICX™ as "excellent" and all recommended its purchase for their clinic. **ICX™** is rated **Recommended** for use by the federal dental services.