

INSTRUCTIONS FOR USE

A-dec® Self-Contained Water System



A - DEC SELF - CONTAINED
WATER SYSTEM

INSTRUCTIONS FOR USE

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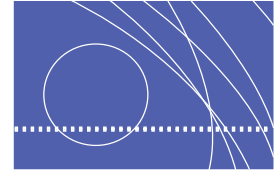
If you have any feedback or comments about this document, contact us at:

A-dec Inc.
Technical Communications Department
2601 Crestview Drive
Newberg OR 97132 USA

Tel: 1.800.547.1883 Within USA/Canada
Tel: 1.503.538.7478 Outside USA/Canada
E-mail: techcomm@a-dec.com
Website: www.a-dec.com

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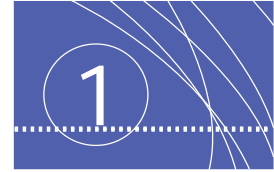


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INTRODUCTION

This guide contains basic operating instructions, water treatment protocol, and safety information for the A-dec self-contained water system.

About the A-dec Self-Contained Water System

A-dec's self-contained water system is designed to help you optimize the quality of your dental unit water by allowing you to:

- Select a quality source for dental unit treatment water
- Perform waterline asepsis with the recommended disinfectants
- Easily maintain dental unit waterlines

This system is intended for use in general dental applications by providing water to the dental syringe, various handpiece ancillary devices, and the cuspidor cupfill. When used in conjunction with A-dec's ICX® waterline treatment tablets (and in accordance with these instructions), the A-dec self-contained water system can help you effectively control odor and foul-tasting bacteria in your dental unit waterlines.

Figure 1 A-dec Self-Contained Water Bottle



A-dec self-contained water systems are mounted to the delivery system arm, support center, or cabinet (see Figure 2).

Figure 2 Self-Contained Water Systems and ICX Tablets



Serial Numbers

When you inquire about service for the A-dec self-contained water system, please provide the serial number. The serial number location depends on the specific configuration of equipment. For examples, see Figure 3

Figure 3 Serial Number Location Examples

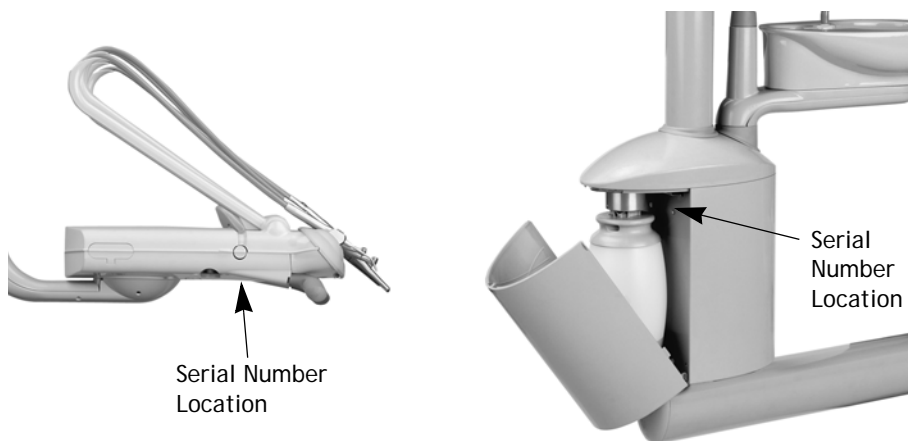


Figure 4 Serial Number Label Example



(A) The REF number is the model number. (B) The first letter of the serial number indicates the month the product was manufactured. The first digit of the serial number is the year of manufacture (for example, L8 = December 2008).

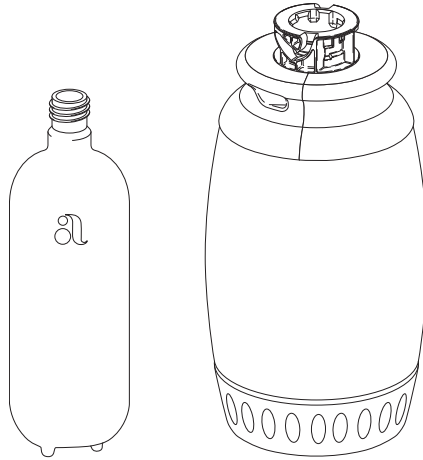
Table 1. Key to Month of Manufacture

Letter	Month	Letter	Month
A	January	G	July
B	February	H	August
C	March	I	September
D	April	J	October
E	May	K	November
F	June	L	December

About the Water Bottle

The A-dec self-contained water system features either a 0.7 or 2.0 liter water bottle (see Figure 5), depending upon the model of A-dec delivery system or support center installed.

Figure 5 Self-Contained Water Bottle Sizes



Size	Used In
0.7 liter	Cascade, [®] Performer, [®] Radius [®] and universal applications
2.0 liter	A-dec 300, [™] A-dec 500, [®] and remote water bottle kit



WARNING Use only A-dec water bottles. Do not use other bottles, including glass, PET, or PP beverage bottles. Do not use damaged bottles. These can pose a serious safety hazard while pressurized. A-dec plastic water bottles cannot withstand heat sterilization. Attempting to do so will damage the bottle and your sterilizer.



How the Water System Works

Air pressure forces water from the bottle into the water pick-up tube and out to various water outputs, such as the handpiece control block, syringe, and cuspidor cup fill spout. A-dec's self-contained water system is a closed system, which isolates your chosen treatment water from the municipal supply.

The full benefits of using an A-dec self-contained water system can be realized only when used in conjunction with an A-dec recommended waterline treatment protocol and followed by periodic monitoring. The three main components of the water system include the treatment water, the water bottle, and a water treatment protocol.



CAUTION Use caution when using the self-contained water system on any dental units equipped with components that might fail when the water supply is interrupted. Some types of scalers and water heaters (except the A-dec low-voltage inline water heater/heated syringe tubing) are examples of components that can be permanently damaged if operated without a continuous water source. Do not use saline solutions, mouth rinses, or any chemical solutions (not specified in this guide) in your A-dec self-contained water system. These may damage the water system components and cause your dental unit to fail.

How to Choose Treatment Water

The correct water to use in the A-dec self-contained water system (for patient treatment) depends on the quality of water available from your municipal source and the goals you have for using the self-contained water system. It is important, whenever treatment water is specified for a procedure, to choose a water source that provides consistent quality.

Tap Water

If you have confidence in the quality of water delivered by your municipal supply, you may consider using tap water in your A-dec self-contained water system. Use of tap water must be done in conjunction with the water treatment protocol specified in this guide. Failure to follow all procedures can result in dental unit water that contains higher than recommended microbial counts.

Distilled Water

If you have concerns about the quality of water delivered through your municipal supply, we recommend the use of distilled water either from a commercial source or from commonly available countertop distillers. If you use a countertop distiller, make sure to carefully follow the cleaning and maintenance instructions for that device. Contamination may result if not properly maintained.

ICX Water Treatment Tablet

A-dec ICX offers a unique solution for dental unit waterline maintenance. By adding one tablet of ICX to each bottle refill, a low concentration of active ingredients remains in the dental unit water. ICX was developed to be the most compatible and effective method for treating self-contained dental unit water systems. A-dec's recommendation for waterline maintenance is based on continuous use of the A-dec ICX water treatment tablet.

A-dec ICX is an effervescent tablet that is added to an empty self-contained bottle before each filling.

For your convenience, ICX is offered in two versions that correspond to the different A-dec bottle sizes.

Figure 6 ICX Tablet Packets



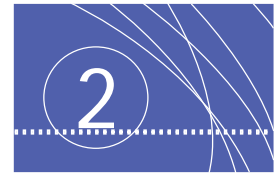
Color of package	Size of bottle
Teal	0.7 liter
Blue	2.0 liter

Each tablet is specially formulated to:

- Maintain dental unit waterlines and prevent accumulation of odor and foul-tasting bacteria
- Provide a residual effect that helps maintain waterlines during periods of non-use lasting up to two weeks

ICX tablets should be used in conjunction with regular testing of treatment water.





WATER TREATMENT PROTOCOL

This section provides A-dec’s recommended protocol for optimizing the quality of your dental unit water.

Test Your Water Quality

Test your dental unit water quality before using A-dec ICX for the first time. The table below lists examples of water quality goals published by U.S. and European authorities. Refer to your national regulatory authorities for recommendations specific to your local area.

Table 2. Water Quality Goals

Regulatory Authority	Water Quality Goal for Heterotrophic Bacteria
Centers for Disease Control (CDC)	not to exceed 500 cfu/ml for coolant/irrigant in nonsurgical dental procedures
European Union Drinking Water Standards	maximum of 100 cfu/ml for drinking water

If your test results indicate bacterial counts higher than your water quality goals, proceed to *Prepare Waterlines for ICX Use* below. Otherwise, proceed to the next section, *When to Use ICX*.

Prepare Waterlines for ICX Use

Before using ICX, prepare your dental unit waterlines with Sterilex® Ultra (available through most authorized A-dec dealers). A-dec recommends following only the initial start-up instructions for Sterilex Ultra. Then proceed with continuous use of ICX in each water bottle refill.

When to Use ICX

To optimize the quality of your dental unit water, be sure to use a fresh ICX tablet every time you refill a self-contained water bottle.

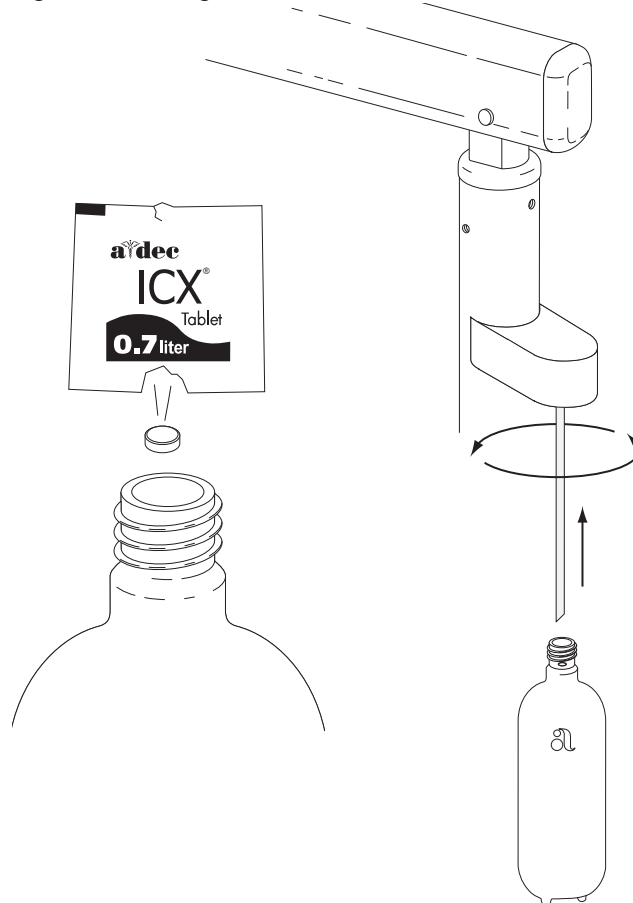
How to Refill the 0.7-Liter Bottle

Take special precaution when refilling the 0.7-liter bottle. The clear pick-up tube can be contaminated if not handled properly. Avoid touching the tube.

The following are the proper handling and refill instructions for a 0.7-liter bottle:

1. Toggle Off the delivery system.
2. Turn the water bottle to the left until the air seal breaks, then remove the bottle and empty any remaining water from it.
3. Wash hands with soap and water, and wear new gloves before handling, filling, and installing the water bottle.
4. Drop an ICX tablet into the bottle and fill with treatment water.
5. Align the full bottle with the self-contained water cap, making sure the pick-up tube extends straight down into the water bottle.
6. Screw the bottle onto the cap until it is secure.
7. Toggle On the delivery system. Air can be heard filling the bottle.
8. Operate the syringe and handpieces to clear any air from the water system.

Figure 7 Refilling the 0.7-Liter Bottle



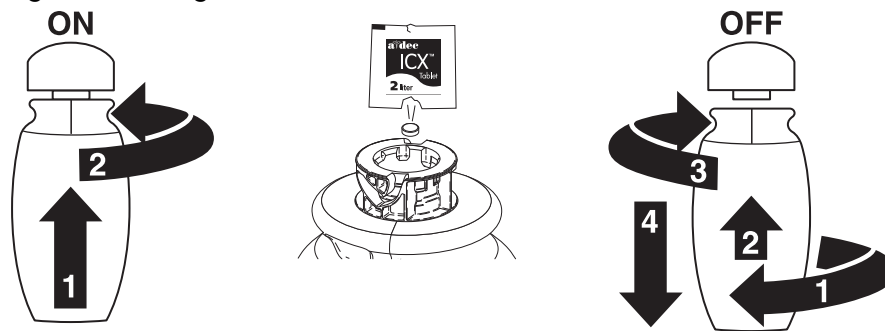
How to Refill the 2-Liter Bottle

The 2-liter bottle has an integrated pick-up tube, which reduces the possibility of contamination. The bottle is also designed to be quickly attached and detached.

The following are the proper handling and refill instructions for the 2.0-liter bottle:

1. Toggle Off the delivery system.
2. Turn the water bottle to the left until the air seal breaks, then push the bottle up, continue to turn left and pull down to remove.
3. Empty any remaining water from the bottle.
4. Wash hands with soap and water, and wear new gloves before handling, filling, and installing the water bottle.
5. Drop an ICX tablet into the bottle and fill with treatment water.
6. Align the bottle with the self-contained water cap, then push up and turn to the right.
7. Toggle On the delivery system. Air can be heard filling the bottle.

Figure 8 Refilling the 2.0-Liter Bottle



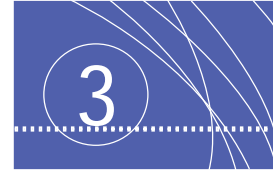
Monitoring Water Quality

The CDC recommends monitoring dental unit water regularly* A-dec recommends, as a conservative approach, to start by testing your water quality and monitor weekly. The monitoring interval may be lengthened based on established results. If the results do not meet your water quality goals, repeat the steps outlined in *Prepare Waterlines for ICX Use* on page 7. Monitoring can be accomplished using in-office monitoring kits or use of a commercial water testing service.

(*ref.: "Guidelines for Infection Control in Dental Health-Care Settings 2003," CDC)



WARRANTY, SAFETY, SPECIFICATIONS



Warranty

A-dec warrants all products against defects in materials or workmanship for one year from time of delivery. A-dec's sole obligation under the warranty is to provide parts for the repair, or at its option, to provide the replacement product (excluding labor). The buyer shall have no other remedy. All special, incidental, and coincidental damages are excluded.

Written notice of breach of warranty must be given to A-dec within the warranty period. The warranty does not cover damage resulting from improper installation or maintenance, accident or misuse. The warranty does not cover damage resulting from the use of cleaning, disinfecting or sterilization chemicals and processes. The warranty also does not cover light bulbs. Failure to follow instructions provided in the *A-dec Instructions For Use* (operation and maintenance instructions) may void the warranty.

A-dec warrants A-dec dental chair cylinders, both lift and tilt for ten years from the date of purchase of the chair or the cylinder. This warranty is retroactive to A-dec chair cylinders already in the field. The warranty covers chair cylinders A-dec finds to have manufacturing irregularities. Stool cylinders are covered under A-dec's one-year warranty.

No other warranties as to merchantability or otherwise are made. For service information, contact your local authorized A-dec dealer. Check with local codes and ADA (Americans with Disabilities Act) requirements for installation of this product.



CAUTION Federal law restricts this device to sale by or on the order of a dentist, physician, or any other practitioner licensed by the law of the state in which he or she practices to use or order the use of this device.

ICX Safety Information

For complete information about instructions for use and precautions with ICX, please refer to the ICX box labeling and insert instructions.



WARNING Hazards to Humans and Domestic Animals - Causes moderate eye irritation, wear protective eyewear. Avoid contact with eyes, skin, or clothing. Wash hands thoroughly with soap and water after handling and before eating, drinking, chewing gum, or using tobacco.

First Aid

If solid gets in eyes, hold eye open and rinse slowly and gently with water for 15 to 20 minutes.

Remove contact lenses, if present, after the first five minutes of rinsing, then continue rinsing eye.

If solid gets on skin or clothing, remove contaminated clothing. Rinse skin immediately with plenty of water for 15 to 20 minutes.

Call a health care professional for treatment advice and have product information when seeking treatment.

Specifications

Recommended operating air pressure: 50 –125 psi

Capacity: 2-liter bottle = 1.953 liters
.7-liter bottle = .6521 liters



NOTE Specifications are subject to change without notice.



A-dec Headquarters

2601 Crestview Drive
Newberg, OR 97132 USA

Tel: 1.800.547.1883 Within USA/Canada

Tel: 1.503.538.7478 Outside USA/Canada

Fax: 1.503.538.0276

www.a-dec.com

International Distribution Centers

A-dec Australia

Tel: 1.800.225.010 Within Australia

Tel: +61 (0)2 8332 4000 Outside Australia

www.a-dec.com.au

A-dec United Kingdom

Tel: 0800 ADECUK (233285) Within UK

Tel: +44 (0) 24 7635 0901 Outside UK

www.a-dec.co.uk



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