

Dental Unit Waterline Treatment: Bleach Protocol Instructions for Use (IFU)

Disinfectant Solution:

A disinfectant solution of one part household bleach (5.25% sodium hypochlorite) plus nine parts of treatment water is recommended. This 1:10 (one-in-ten) solution should be used in all bottle and waterline asepsis protocols outlined below.

Using the following procedures, 100 ml (3.3 oz.) of the 1:10 disinfectant solution is a sufficient amount to treat one system or one bottle (100 ml for disinfection of the bottle and 100 ml for disinfection of the system). If you are treating one system at a time, simply mix 10 ml (about 1/3 oz) bleach with 90 ml (about 3 oz) treatment water. To treat more than one system, use the same ratio to mix additional solution. Always prepare fresh solution for each treatment.

Bottle Disinfection

To disinfect an A-dec water bottle, pour 100 ml of the 1:10 solution into the bottle, cap and shake for approximately 5 seconds. Allow the bottle to stand for ten minutes. Shake the bottle again. Empty the bottle and rinse twice with treatment water.

System Disinfection:

1. Make certain the unit has been purged with air

- a. Make sure that the handpieces have been removed from the tubings before purging the system
- b. Remove and empty the treatment water from the installed water bottle, then reinstall it
- c. Hold handpiece tubings and syringe over a basin or bucket. Turn the unit on, wait a few moments, then operate the unit flush valve, syringe, and foot control until the water is purged from the system
- d. Turn off the unit

2. Fill and flush with disinfectant

- a. Make sure the unit is off. Remove the empty water bottle and set it aside for disinfection if you have a spare water bottle. If not, disinfect water bottle before disinfecting the system.
- b. Add approximately 100 ml of the 1:10 disinfectant solution to a disinfected bottle. This will be referred to as the disinfectant bottle
- c. Hold handpiece tubings and syringe over a basin or bucket. Turn the unit on, wait a few moments, then operate the unit flush valve, syringe, and foot control until a

steady stream of disinfectant solution begins flowing through the tubings (about 15-20 seconds)

- 3. Allow disinfectant to remain in the unit for at least 10 minutes but never more than 30 minutes**
- 4. Purge the unit with air**
 - a. Hold handpiece tubings and syringe over a basin or bucket. Turn the unit on, wait a few moments, then operate the unit flush valve, syringe, and foot control until the disinfectant solution is purged from the system.
 - b. Turn off the unit.
- 5. Fill with treatment water**
 - a. Make sure the unit is off. Remove the empty the solution from the disinfectant bottle. Then install a disinfected bottle filled with treatment water. If using the same bottle, empty the contents of the bottle, rinse twice with treatment water then fill with treatment water and reinstall.
 - b. Hold handpiece tubings and syringe over a basin or bucket. Turn the unit on, wait a few moments, then operator the unit flush valve, syringe, and foot control until a steady stream of treatment water begins flowing through the tubings (about 20-30 seconds). Your dental unit is now ready for use.