

*From the pioneers in dental air abrasion.*



## OPERATORS MANUAL



INNOVATIVE DENTAL PRODUCTS

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## A. Preparing your PrepStart H2O for use

1. The PrepStart H2O is a portable compact system and can be located conveniently on a countertop or roll-around tray.
2. Attach the foot pedal supplied with the unit to the rear of the unit, the connectors are color-coded, the red and blue go to the back of the PrepStart while the green attaches to the back of the water unit (see Fig 2), hand-tighten all connections until firmly secured to avoid leaks.
3. Attach the hand piece to the front of the PrepStart H2O, the dark gray tubing with the metal end attaches to the PrepStart abrasive exit port first, the clear luer-style fitting attaches to the water unit (see Fig 1).
4. Fill the water bottle with distilled water, temperature of the water should not exceed 115° F, and screw bottle cap in place with fitting facing the back of the unit by holding the white portion of the cap and screwing the blue ring in place, hand-tighten only. Note: Only use distilled sterile water.
5. Attach the blue line with white fitting to the white fitting in the base of the water unit and the two (2) yellow fittings together, hand-tighten (See Fig 2).
6. Reconnect the air supply line to the PrepStart unit.
7. **Test cutting performance without water spray.** Flip the water toggle switch located at the rear of the unit to the OFF position. The toggle level should be pointing to the left when viewing the unit from the rear. Turn on the PrepStart main toggle switch to activate the unit, this is the larger toggle switch located at the rear of the PrepStart, ON is in the up position. Once in the ON position you should have a pressure reading on the pressure gauge located on the front bezel of the PrepStart. Evaluate cutting performance on extracted tooth without the water spray. Adjust air pressure and powder flow using gray control knobs on front panel of main PrepStart unit to the desired settings.

## 8: Adjust water flow to hand piece in the absence of abrasive.

- a. Flip the PrepStart main toggle switch to the "OFF" position (down).
  - b. Flip the switch on the water toggle switch to the "ON" position (toward the main PrepStart).
  - c. Position the hand piece in a container and depress the foot-pedal and observe water flow at the hand piece tip, allow a few seconds for water to exit the hand piece tip. The time will be considerably longer if the water control knob is set at less than maximum.
  - d. Adjust the water flow by using the gray water control knob located on the front bezel of the water unit. Ideal flow is about 3 drops every couple of seconds. Excessive water flow may decrease working visibility.
  - e. Water flow rate may need to be adjusted once you supply pressure via the PrepStart abrasive unit, see section 10.
9. Turn on PrepStart main toggle switch, verify you have a pressure reading of at least 60 psi.
  10. Position hand-piece in beaker or garbage can and evaluate water spray and abrasive/air mix. If necessary, fine-tune water flow (see section 8) to suite your needs. The PrepStart H2O has three operating modes:
    - 1) compressed air/abrasive. Abrasive toggle ON, water toggle OFF.
    - 2) compressed air/abrasive + water. Both toggle switches ON.
    - 3) water only. Water toggle ON, abrasive toggle OFF .

## B. Refilling the Water Bottle

1. Turn-off water toggle switch (located at the back of the water unit) controlling water flow.  
When the water toggle switch is turned off, the compressed air in the water bottle automatically vents to atmosphere.
2. Remove bottle from its housing and unscrew the cap while holding the bottle.
3. Fill with distilled water, reattach the cap and place back in the housing.

## C. Internal Water Lines & Water Bottle Cleansing Procedure

At the end of each day, the water lines of the PrepStart H2O should be flushed with a disinfecting agent to prevent growth of micro-organisms. Potential disinfecting agents include isopropyl alcohol, ethanol, mouth rinse formulated with quaternary ammonium compounds, and hydrogen peroxide.

***Do not use any chlorine containing compounds (e.g., hypochlorite, Clorox, hypochlorous acid, etc.) as these compounds will result in corrosion of the internal metal components.***

Procedure to flush the unit:

1. Fill the water bottle with ~ 100ml of the disinfecting solution. Attach cap and shake bottle so liquid contacts the bottle walls. Place bottle in housing.
2. Verify that the main unit toggle switch is in the OFF position.
3. Flip water toggle switch to ON position.
4. Depress foot pedal and allow disinfecting solution to flow through unit out the hand-piece tip into beaker/sink. Leave disinfectant solution in water lines for sufficient time to achieve disinfection. Time period will depend on type of disinfectant used.
5. Flush remaining disinfectant solution through unit.
6. Purge unit with air, at least five (5) minutes to remove residual disinfectant from lines.

#### **D. Handpiece Cleansing Procedure – External Surfaces (DO NOT STEAM STERILIZE HANDPIECE TUBING)**

1. Place hand-piece in autoclavable pouch and place in a gravity displacement autoclave and sterilize at 275° F for 15 minutes, allow cooling before handling.

**Do not utilize dry heat sterilizers or toaster ovens... i.e. Cox Sterilizer.**

**PrepStart™ H2O Hyrdro Abrasion System Owner's Manual**



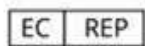
Fig. 1



Fig. 2

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