

Cleaning & Sanitisation

Notice:

The information and/or procedures presented in the following demonstration(s) should be performed by a trained Water Cooler Service Technician only.

Never attempt to service or repair a water cooler while it is plugged into any power supply.

Prior to any service or repair of the water cooler, ensure that the water has been completely drained from the system.

Scheduled sanitisation (cleaning and disinfecting) of the water contact parts of your cooler is recommended to ensure the integrity of your drinking water. This scheduling will vary depending on the conditions and environment in which the cooler is in use, and water composition. The European Bottled Water Cooler Association recommends sanitisation a minimum of twice a year.

Follow the steps outlined below for sanitisation methods of the water contact points.

For cleaning exterior surfaces and drip trays, use only mild dishwashing liquid detergent. **DO NOT USE** bleach or abrasive cleaners. On Summit models, use Crystal Brite or any other specialty stainless steel cleaner **only**.

Cleaning Instructions

Method 1:

1. Unplug the cooler.
2. Remove the water bottle (fig.2-1) and drain excess water through the faucets. (fig.2-2). On Hot & Cold models turn hot tank switch off and allow 2 hours for the hot water to cool down, then remove drain plug at the rear of the cooler and drain water into a container (0.4 of a gallon or 1.8L) (fig.2-3). Replace the drain cap.



figure 2-1



figure 2-2



figure 2-3

CAUTION

If the cooler is a Hot & Cold, note that water in the hot tank is very hot; after unplugging cooler, allow 2 hours for water to cool down before removing the drain cap to drain the system!

3. Remove the locking pin located at rear of Crystal Guard (fig.3-1). Place fingertips of both hands on Crystal Guard and turn it counter clockwise until it is free from the cooler opening and remove from cooler (fig.3-2).

Note: For models with DryGuard™ non spill system see DryGuard™ Installation & Removal Procedure.



figure 3-1



figure 3-2

4. Remove baffle cup by pulling straight up and set aside (fig.4-1).



figure 4-1

5. Add one and a half tablespoons of vinegar, citric acid or other food grade disinfectant to 1 gallon (4.5 L) of clean water and pour into reservoir. Let solution stand for five minutes in the reservoir also soaking baffle cup and stem and other small water contact parts (fig.5-1).



figure 5-1

6. Use a clean cloth and small brush to scrub all available surfaces of the internal reservoir components, baffle cup and faucets (fig.6-1) (fig.6-2).



figure 6-1



figure 6-2

7. Remove air filters and soak part in vinegar and wipe and rinse and replace air filter. See pin and Cone removal instructions on page 6.
8. When cone or DryGuard™ is dry, put the air filter back on as per instructions on page 7.
9. Rinse reservoir, baffle and both faucets thoroughly with clean water several times.
10. Replace baffle cup and reassemble cooler.
11. Place new bottle on cooler and draw 1 cup of water from each faucet and discard. On Hot & Cold coolers, remove hot tank drain plug again, and draw two cups of water through the drain, replacing cap afterwards.
12. Plug cooler back into outlet and resume use.

Method 2:

For optimal sanitisation, all water contact parts should be removed from the cooler. The cold water reservoir, baffle system, elbows and the faucets can be removed and sanitised either in a dishwasher or wash basin. Crystal Guard, pin and DryGuard™ can also be removed for thorough cleaning. Follow the steps below:

1. Unplug the cooler.
2. Remove the water bottle and drain excess water through the faucets. On Hot & Cold models turn hot tank switch off and allow 2 hours for the hot water to cool down. Remove drain plug at the rear of the cooler and drain water into a container (0.4 of a gallon or 1.8L). Replace cap.
3. Remove the locking pin located at rear of Crystal Guard. Place fingertips of both hands on Crystal Guard and turn it counter clockwise until it is free from the cooler opening and remove from cooler.

Note: For models with DryGuard™ non spill system see DryGuard™ Installation & Removal Procedure.

4. Remove the faucets from reservoir elbows by turning them counter clockwise (fig.4-1).



figure 4-1

5. Remove the insulation jacket covering the reservoir, straight up through the cooler opening (fig.5-1).



figure 5-1

6. Remove baffle cup (fig.6-1) and unscrew baffle stem and wing nut (fig.6-2) (fig.6-3).



figure 6-1



figure 6-2



figure 6-3

7. Approach the cooler from the rear. Open the latch provided on the evaporator band (fig.7-1).



figure 7-1

8. Use both hands to loosen the reservoir from the evaporator band and lift it straight through the cooler opening (fig.8-1).



figure 8-1

9. Remove the faucet elbows from the bottom insulation.
 10. Place all internal contact points in dishwasher or in wash basin. Use normal dish washing detergent or vinegar based solution as outlined above (fig.10-1) (fig.10-2) (fig.10-3).
Note: Silicone washers should be removed from the faucets and elbows if using a dishwasher, and washed separately. for Hot & Colds, washer should also be removed and cleaned between reservoir and hot tank. Wash Crystal Guard, DryGuard™ and pin. See “Removal and Installation” section and “DryGuard™ Installation & Removal Procedure” section.



figure 10-1



figure 10-2



figure 10-3

11. To reassemble, reverse this procedure (steps 3 through 9).
12. Place new bottle on and draw 1 cup of water from each faucet and discard, and also two cups from the hot tank drain tube. (fig.12-1).



figure 12-1

13. Plug cooler back into outlet and resume use.

Removal and Installation

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. Crystal Guard Removal & Installation Procedure

REMOVAL

1. Remove the locking pin located at rear of Crystal Guard (fig.1-1).



figure 1-1

2. Place finger tips of both hands on the Crystal Guard (fig.2-1) and turn it sharply counter clockwise until it is free from the cooler (fig.2-2) opening and remove from the cooler (fig.2-3).



figure 2-1



figure 2-2



figure 2-3

3. To reinstall reverse these steps.

Note: Remember to replace locking pin to secure Crystal Guard to cabinet.

INSTALLATION

If you take apart the Crystal Guard for sanitisation or because a part of it needs replacing, reassemble as below.

4. Ensure that the Crystal Pin has the O-Ring in place at its base firmly insert the Crystal Pin inside the Crystal Guard (fig.4-1). Make sure that the Crystal Pin's four locking tabs have completely protruded through the locking tabs entries (fig.4-2).

Note: Ensure that the Crystal Pin has the O-Ring securely in place.



figure 4-1



figure 4-2

5. Using the Crystal Guard removal tool (SMT-C000110) to insert clean pin in cone (fig.5-1). Twist the Crystal Pin clockwise until the four locking tabs are approximately half way between the four holes (fig.5-2).



figure 5-1



figure 5-2

6. Insert the floater into the cylindrical toothed part on the backside of the Crystal Guard (fig.6-1).

Note: Make sure that once installed, the floater can move freely up and down inside the cylinder.



figure 6-1

7. Insert the air filter cap over the floater and on the cylindrical toothed area of the Crystal Guard until it bottoms out (fig.7-1) (fig.7-2).



figure 7-1



figure 7-2

8. Insert the blue gasket into the gasket groove area of the Crystal Guard until it bottoms out (usually this gasket is applied to the cone by the factory as a sub assembly) (fig.8-1). Make sure that the gasket is depressed so that it is below the level of the gasket groove to allow ease of assembly (fig.8-2).

Note: The reservoir also can be used as a tool to press the gasket into the groove (fig.8-3).



figure 8-1



figure 8-2



figure 8-3

9. Re-install the Crystal Guard onto cooler. The Crystal Guard system was designed to seal air and therefore the cone will fit very tightly when installed with the blue gasket (fig.9-1).



figure 9-1

10. Poke the arrow pin used to lock the cone down thru its drilled hole to secure the lid on the cooler (fig.10-1).

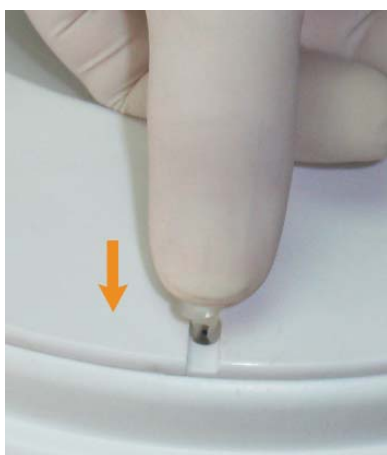


figure 10-1

. E & S Series Reservoir Removal Procedure

1. Remove the water bottle (fig.1-1) and drain water from the reservoir (fig.1-2) and hot tank, remembering to cool and drain hot tank. Allow 2 hours for hot water to cool down inside the hot tank before removing the drain plug at the rear of the cooler to drain into a bucket. Replace cap.



2. Use the fingertips of both hands to press on the Crystal Guard and turn counter clockwise till it is free from the cooler opening (fig.2-1).

Note: The DryGuard™ lid is standard on the Sierra cooler. See DryGuard™ Installation & Removal Procedure for installation and removal instructions.

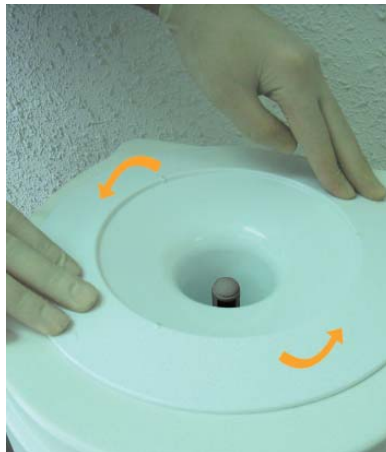


figure 2-1

3. Use fingers of both hands to lift up and remove the insulation jacket covering the reservoir, from the cooler opening (fig.3-1).



figure 3-1

4. Remove the baffle cup by lifting straight out (fig.4-1). Loosen & remove the baffle stem (fig.4-2) and wing nut (fig.4-3) by turning counterclockwise.



figure 4-1



figure 4-2



figure 4-3

5. Approach the cooler from the rear. Open the latch provided on the evaporator band (fig.5-1).



figure 5-1

6. Use both hands to loosen the reservoir from the evaporator band and lift it straight through the cooler opening (fig.6-1).



figure 6-1

. DryGuard™ Installation & Removal Procedure

REMOVAL

1. Remove the bottle (fig.1-1) and outer ring (fig.1-2) from the cooler.



figure 1-1

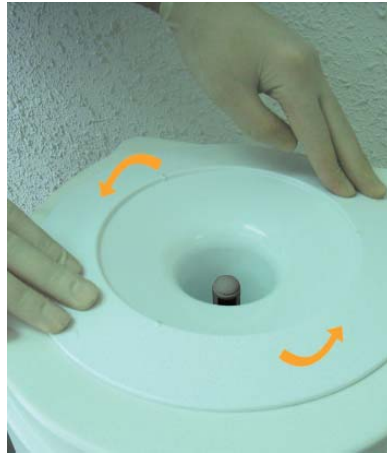


figure 1-2

2. Approaching the cooler from the side, place one palm onto the top of the cooler on the side furthest from you, and using your thumb, press downwards on the reservoir Insulation (fig.2-1).



figure 2-1

3. Using your other hand, grip the edge of the Inner DryGuard™ unit and pull it up slowly to remove (fig.3-1). A DryGuard™ removal tool is also available from Crystal Mountain to make this job easier.

Note: DryGuard™ is designed to fit very tightly into reservoir.



figure 3-1

INSTALLATION

4. Place the Inner DryGuard™ assembly onto the center of the cold water reservoir; make sure the filter cap is pointed towards the rear of the cooler (fig.4-1).



figure 4-1

5. Using the palms of both hands, push the DryGuard™ straight down into the reservoir (fig.5-1) (fig.5-2).



figure 5-1



figure 5-2

6. Install the Outer DryGuard™ onto the cooler (fig.6-1) and lock into place by turning clockwise (fig.6-2).



figure 6-1



figure 6-2