



Mineral Harmony™

REFERENCE GUIDE - QUATRO PURIFIER

Important! Always follow the printed instructions on all chemical packages. Always circulate the water for at least 15 minutes after any chemical addition and before adding another product. Add balancing products in small increments then re-test to avoid over adjusting.

FILLING THE SPA (EVERY 4 MONTHS)

1. Fill the spa to the correct water level.
2. Test water using a water test strip and make any necessary adjustments to total alkalinity and pH using **Mineral Harmony LIFT** or **Mineral Harmony LOWER**. Always make any needed adjustments to Alkalinity first then adjust pH.

Alkalinity: 80 - 120 ppm

pH: 7.2 - 7.8

3. Add 16 oz. of **Mineral Harmony GUARD** to protect the spa from minerals and metals that can stain spa surfaces and cause corrosion of the spa equipment.
 4. Establish a chlorine residual of 1.0 ppm using **Mineral Harmony SANITIZER**.
 5. After all adjustments have been made, install the **Mineral Harmony QUATRO Purifier** inside the filter cartridge, next to the filter in the filter well, or in the spa skimmer tray. Read all instructions included with the **QUATRO** for use of the extension sticks that may be necessary to keep the **QUATRO** from dropping too low in the filter and obstructing water flow. **Replace the QUATRO every 4 months.**
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REGULAR MAINTENANCE

Sanitizing

You should maintain the recommended sanitizer level at all times. Test the sanitizer level regularly and especially before and after each spa use. When using a **QUATRO** mineral purifier you should maintain a sanitizer residual of .05 - 1.0 ppm.

Weekly

1. Test water and adjust Alkalinity and pH levels if necessary. Always adjust Alkalinity first.
2. Add Sanitizer if necessary.
3. Add **Mineral Harmony SPARKLE** to prevent cloudy water.
4. Add **Mineral Harmony REFRESH** to oxidize used sanitizer from the water.
5. Clean debris from skimmer and suction intakes to avoid a decrease in water flow.

Monthly

1. Remove and clean the spa filter(s) per manufacturer instructions.
2. Clean spa cover and spa surfaces.

As Needed

- If the total hardness is low, raise the hardness level using **Mineral Harmony BOOST**.
- If foam is present in the spa, add **Mineral Harmony NO FOAM**.



TROUBLESHOOTING GUIDE

C = Cause S = Solution

CLOUDY WATER

- C: Inadequate filtration or dirty filter.
- S: Check that the filter is securely attached. Clean or replace filter.

- C: Water is not balanced.
- S: Shock water with **REFRESH** and test water with a Water Test Strip. Adjust sanitizer level, Alkalinity and pH levels as needed.

- C: Unfiltered particles or chemically saturated water.
- S: Use **SPARKLE** to combine particles; or drain the spa, clean and refill.

CHEMICAL ODOR

- C: Too many chloramines (used sanitizer) in the water.
- S: Shock water with **REFRESH** then adjust sanitizer level as necessary.

FOAMING

- C: High concentration of body oils, lotions, or soaps as well as high temperatures and excessive contaminants.
- S: Use **NO FOAM** and adjust pH and sanitizer levels if needed.

GREEN WATER/ALGAE

- C: Low sanitizer level or high pH.
- S: Adjust pH with **LOWER**. Add **SANITIZER** if necessary.

ERRATIC PH TEST COLOR

- C: Sanitizer level is too high. (See TOO MUCH SANITIZER)
- S: Test pH again when sanitizer level is below 5 ppm.

YELLOW WATER

- C: Low pH.
- S: Adjust pH with **LIFT**.

CORROSION OF METAL

- C: Low pH level.
- S: Adjust pH level with **LIFT**.

FAILURE TO GET A SANITIZER READING ON THE TEST STRIP

- C: Sanitizer level is too low.
- S: Add **SANITIZER** until the sanitizer level tests in the recommended range.

- C: Algae present.
- S: Dirty water will consume the sanitizer as soon as it is added. Add more **SANITIZER** until the sanitizer tests and stays in the recommended range.

TEST STRIP READS 'WHITE' AFTER SANITIZER IS ADDED

- C: Sanitizer level is extremely high. It can bleach the reagents on the test strip and give a false reading.
- S: See below.

TOO MUCH SANITIZER IN THE WATER

- C: Too much Sanitizer added or dispensed into the spa.
- S: Remove the spa cover and activate jets with the air control open. Allow jets to run for 30 minutes. Test water with a Water Test Strip to see if desired level has been reached. Do not use the spa until the sanitizer level is below 5.0 ppm.

EYE OR SKIN IRRITATION

- C: Contaminants or excessive amount of chloramines
- S: Shock water with **REFRESH**. Adjust sanitizer level.

- C: pH level is low.
- S: Adjust pH level as needed with **LIFT**.

MUSTY ODOR

- C: Not enough sanitizer in water or bacteria or algae in water.
- S: Add **SANITIZER** as necessary and shock with **REFRESH**. Re-adjust sanitizer level if necessary.