

## Nakita™ Descaling and Rust Removal Solution

For HYDROGUARD® Analyzer Sampling Cells A1 and A11

### Instructions for Use

See MSDS and product label for safety precautions for using Nakita™.

Blue I Water Technologies' water quality analyzers are fitted with a durable acrylic sampling cell. The A1 and A11 sampling cells hold a range of sensors and provide the perfect operating conditions for high-precision measuring at a constant flow rate.

Blue I's sampling cells and filters should be periodically washed with **Nakita™** cleansing solution provided by the manufacturer.

Particles of iron and rust can clog the membrane of a chlorine electrode and affect measurement accuracy. Cleaning the sampling cell and filter is recommended every six months or when build-up of particles is visible, to avoid costly replacement of parts.

To purchase additional supplies of the cleansing solution, contact your distributor.

### Filter Assembly

(For all HYDROGUARD analyzers)

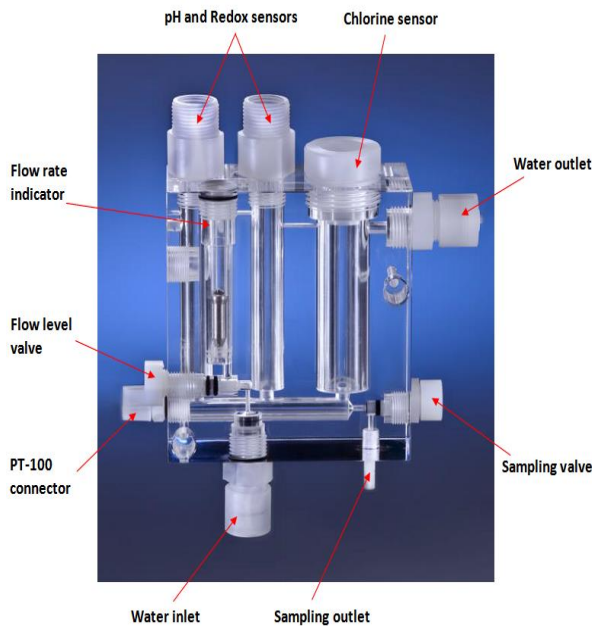


1. Close the water inlet valve leading to the filter.
2. Remove the filter casing and inner cartridge from the holder (unscrew by hand).
3. Pour out the water from the filter casing.
4. Leave the filter cartridge inside the casing and fill the casing with Nakita™ cleansing solution.
5. Wait 40-60 minutes while the solution cleans the filter holder and cartridge. If necessary, the solution can be left in for another few minutes.
6. Pour out the solution.
7. Fasten the filter casing with the cartridge back in the filter holder.
8. Open the water inlet valve leading to the filter.

**Note:** It is not necessary to disconnect the analyzer from its power supply when cleaning the sampling cell.

### Acrylic Sampling Cell A1

(HYDROGUARD HG-602, HG-TotalCl, HG-HighCl and HG-202)



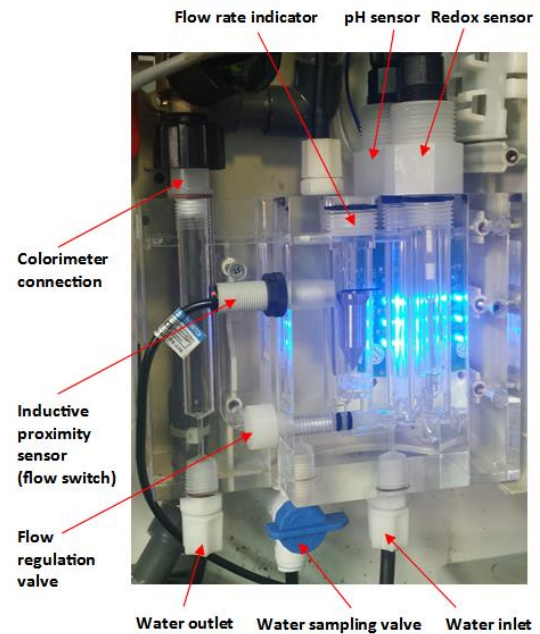
1. Close the water inlet valve at the filter or the sampling cell.
  2. Loosen the water outlet connector.
  3. Open the sampling valve at the bottom of the sampling cell and wait for the cell to be completely empty.
  4. Tighten the water outlet connector in place and close the sampling valve.
  5. Remove the chlorine sensor. [Recommendation: Place in a cup with water to cover the sensor's membrane, until the cleansing process is completed.]
  6. Unscrew the cap covering the flow rate indicator.
  7. Pour Nakita™ cleansing solution into the chlorine electrode opening and into the flow rate indicator opening and fill up to the rim.
- Note:** The pH and Redox sensors can be left in place during the cleaning process.
8. Wait 40-60 minutes for the solution to clean all parts of the sampling cell – until you see that the cell is clean throughout. If necessary, the solution can be left in for another few minutes.
  9. Reinsert the chlorine sensor and screw into place.
  10. Replace the flow rate indicator cap.
  11. Open the water inlet valve and let clean water flow in to wash out the cleansing solution.
  12. Wait 10-20 minutes for values to stabilize in the analyzer.



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 Rev 1.1

### Acrylic Sampling Cell A11

(HYDROGUARD HG-702, HG-302 and TurbiPlus models)



1. Disconnect the solenoid valve from the electronics card by unplugging the connector marked "Valve".
2. Close the water inlet valve at the filter or the sampling cell.
3. Open the sampling valve at the bottom of the sampling cell and wait for the cell to be completely empty.
4. Close the sampling valve.
5. Close the water outlet by tying its tube or inserting a plug.
6. Remove the Redox sensor.
7. Unscrew the cap covering the flow rate indicator.
8. Pour Nakita™ cleansing solution into the Redox electrode opening and into the flow rate indicator opening and fill up to the rim.
9. Note: The pH sensor can be left in place during the cleaning process.
10. Wait 40-60 minutes for the solution to clean all parts of the sampling cell – until you see that the cell is clean throughout. If necessary, the solution can be left in for another few minutes.
11. Reinsert the Redox sensor and screw into place.
12. Replace the flow rate indicator cap.
13. Reconnect the solenoid valve on the electronics card by plugging in the connector marked "Valve".
14. Open the water outlet.
15. Open the water inlet valve and let clean water flow in to wash out the cleansing solution.
16. Wait 10-20 minutes for values to stabilize in the analyzer.

