A-0215 CHEMetrics DR 900 13-mm Vacu-vials® Adapter
User Instructions

A 13-mm adapter is required in order to use CHEMetrics Vacu-vials test kits with the DR 900 colorimeter. CHEMetrics 13-mm Adapter, Cat. No. A-0215, is used in conjunction with the 16-mm adapter supplied with the DR 900. The 13-mm adapter centers CHEMetrics Vacu-vials ampoules in the DR 900's cell holder and functions as a light shield.

To Install O-Rings on the A-0215 Adapter

Four O-rings are provided with the A-0215 package. Two O-rings must be mounted on the adapter before use. Save the remaining two O-rings as replacements when the original O-rings show wear from use.

The O-rings fit into two slots located at the open end of the adapter. Begin installation by sliding one O-ring using your thumbs to the slot position that is closest to the open end of the adapter. Gently push the O-ring into the slot, using your fingernails to seat it completely. Use the same technique to mount the second O-ring.

To Set Zero on the DR 900

1. Install the DR 900 16 mm adapter according to the guidance provided in the DR 900 Manual.
2. Press the Power key to turn on the DR 900.
3. Push HOME>Options to display the Options Menu.
4. Scroll down list and Select **%T/Abs/Conc**.
5. Select **Conc**.
6. From the Options Menu Select **Favorites/User Programs**.
   Note: See procedure on page 2 to load CHEMetrics User Programs to your DR 900.
7. Select the user program that corresponds to the Vacu-vials test kit in use. Press Start.
8. Place the ZERO ampoule (supplied in Vacu-vials® kit), flat end first, into the 16 mm adapter (already installed in the DR 900). Slide the A-0215 (applying mild downward pressure), over the ampoule, inserting it inside the 16 mm adapter, making sure it is fully seated.
9. Press **Zero**. The display will show "0.00 or 0.01".
10. Pull out the A-0215 adapter from the 16 mm adapter. The A-0215 will retain the ampoule. Remove the ampoule from the A-0215.

To Make a Measurement

11. Prepare the test ampoule according to the Vacu-vials kit instructions.
12. Insert the test ampoule, flat end first, into the 16 mm adapter. Slide the A-0215 (applying mild downward pressure) over the ampoule and insert it inside the 16 mm adapter, making sure it is fully seated.
13. Press Read. The sample test result will appear in the display as ppm (mg/Liter).
14. Follow step #10 to remove the test ampoule from the DR 900.

Measurement Tips:

✓ To prevent film build-up on the O-rings mounted in the A-0215, care should be taken to wipe and dry the test ampoule after snapping and *before* inserting it into the DR 900.

✓ After use, rinse the A-0215 with warm water. Shake the A-0215 to remove excess water, wipe dry. Allow it to air dry before storing.

Loading a CHEMetrics Vacu-vials User Program on the DR 900 from a Computer

Before using the A-0215 Vacu-vials 13-mm Adapter with the DR 900, Vacu-vials User Programs must be imported to the DR 900 from the CHEMetrics website.

CAUTION: The DR 900 recognizes *only* DR 900_User.SPM as the file name – DO NOT CHANGE the FILE NAME.

During the file import process, the DR 900 will warn the user that the programs currently saved to **Favorites/User Programs** will be replaced. A new program list will be generated containing *only* the imported user programs.

Notes:

✓ If user programs are currently saved to Favorites\User Programs, it is recommended they be exported (backed up to a computer) before importing CHEMetrics Vacu-vials User Programs in case they are needed at a future point in time. Refer to the Manage Programs section in the DR 900 Manual.

✓ Unlike User Programs, Hach Stored programs that have been chosen as **Favorites/User Programs** will not be transferred or deleted.

To Import CHEMetrics Vacu-vials User Programs

1. With the DR 900 switched on, connect it to a computer using the USB cable supplied with the instrument.
2. On the DR 900, select **Manage Programs** > **Import User Programs**.
3. On the computer, copy and paste the <DR 900_User.SPM> file supplied by CHEMetrics into the USB Drive pop-up window. Press OK.
   > Note: See our website for available User Programs.
4. On the DR 900, press **OK** to overwrite the Favorites/User Programs list and again to return to the main menu.
5. Select **Disconnect USB** and unplug the USB cable from the instrument. Press OK.
6. Verify that the correct CHEMetrics Vacu-vials User Programs are found in the Favorites/User Programs list.

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