

## Fitting Replacement Cooling Water Hoses to the Vista Camera Assembly

**Part number:** 9910108800, Kit, Vista camera cooling water hoses

These instructions explain how to fit the cooling water hoses to the Vista camera assembly.

Kit part number 9910108800 should contain these parts:

Part Number	Description	Quantity
3710043100	Tube, polyurethane, ether-based	2
1610098000	Connector, union bulkhead, Swagelok B-400-61	2
1610119700	Connector, body, banjo	2
1610119800	Ferrule, Swagelok	2
5310231500	Bolt, banjo	2
5310231600	Insert, Swagelok	2
5310231700	Washer, banjo	4
4910008500	Adhesive pad	1
8510203400	Installation instructions	1

### Installation

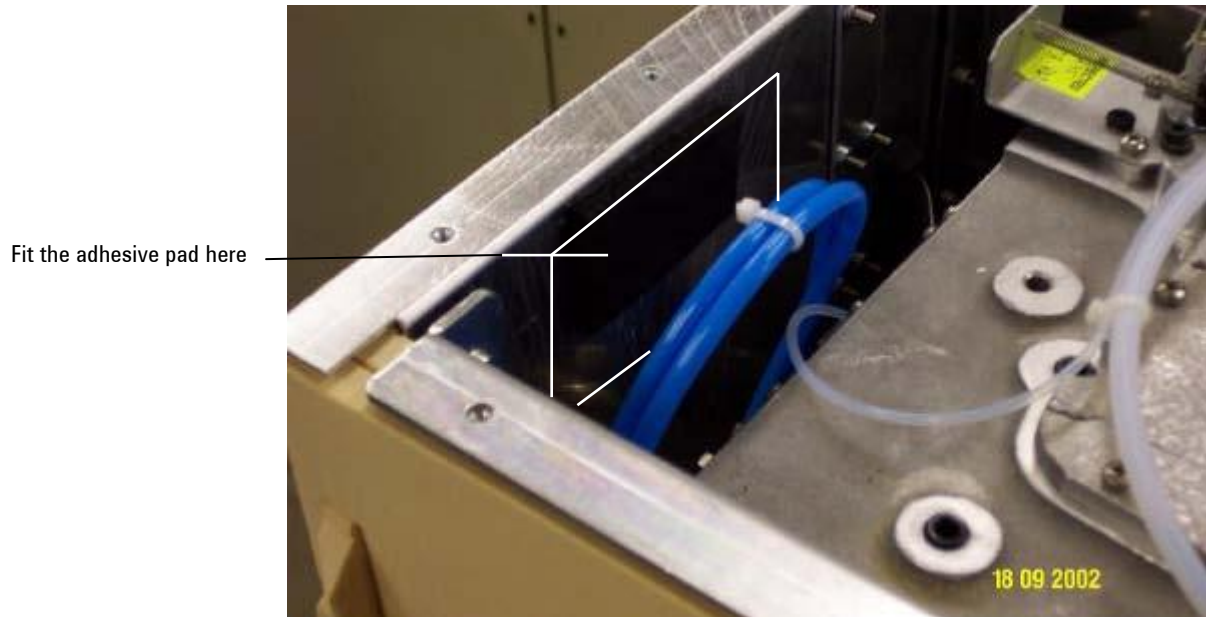
**To fit the replacement cooling water hoses to the camera:**

- 1 Turn off all power to the instrument and disconnect the cable from the mains power supply.
- 2 Turn off the supply of cooling water to the instrument.
- 3 Remove the instrument access covers to the polychromator.
- 4 Remove the polychromator access covers to the camera assembly.
- 5 Remove the blue water cooling hoses from the camera assembly – the small ‘banjo’ fittings connect to the camera heat exchanger and the brass Swagelok fittings connect to the white Ertalyte block, which passes the hoses through to the lower level of the instrument.
- 6 Remove the original Swagelok nipples from the water supply hoses and fit the replacement Swagelok nipples to the water hoses.
- 7 Fit the replacement water hoses (already fitted with banjo couplings and bulkhead Swagelok couplings) between the white Ertalyte block and the camera heat exchanger, with a strain-relief loop in the two blue hoses. **Loosely** tie them together with a cable tie – take care to avoid compressing or flattening the tube walls. **Do not** use any adhesive tapes, because the solvents in the adhesive may weaken the tubing.



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- Fit the supplied adhesive pad, part number 4910008500, to the inside wall of the polychromator enclosure. This is to prevent the blue plastic tubing from making contact with the  $\sim 35\text{ }^{\circ}\text{C}$  wall.



**Figure 1.** Polychromator enclosure showing where to fit the adhesive pad

- Turn on the water supply to the instrument, wait for a few minutes to allow air to be purged from the instrument, and check carefully for water leaks.
- Re-fit the polychromator camera access covers.
- Re-fit the instrument covers.
- Re-power the instrument and confirm that the camera can be driven to its normal operating temperature ( $-35\text{ }^{\circ}\text{C}$  for Vista-PRO,  $-30\text{ }^{\circ}\text{C}$  for Vista-MPX).

This information is subject to change without notice.



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