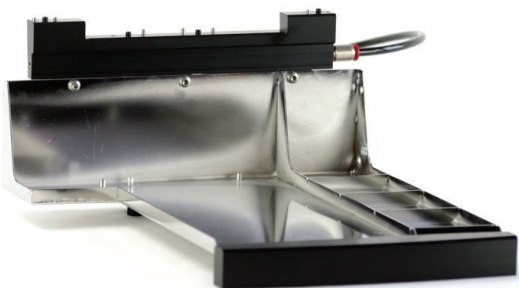


Biotage® Initiator+ Alstra™ Inert Gas Manifold

User Instructions



Inert gas can be connected as standard to the microwave cavity on Biotage® Initiator+ Alstra™ systems. The inert gas manifold is an option that can be added on the rack tray and be used for keeping Fmoc amino acids and reagents under an inert atmosphere.

Delivered Items

The kit contains the following items:

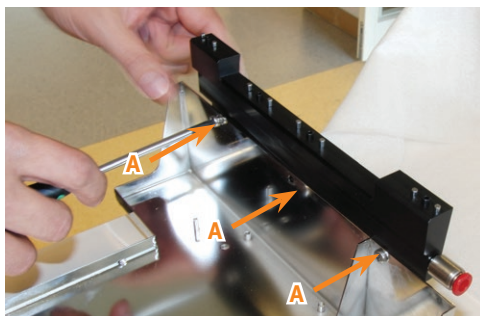
- » N2 plug-in manifold.
- » Regulator.
- » Three screws.
- » 4 mm tubing.

Install the Inert Gas Manifold

The following items are required: a T20 Torx screwdriver (delivered with the system) and a pair of scissors.

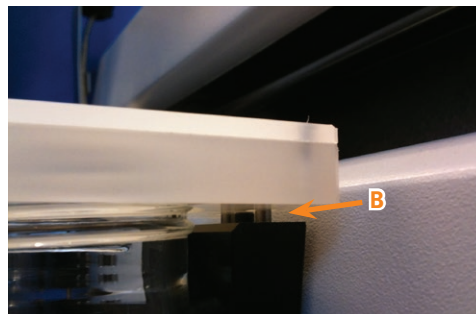
Note: Two or more persons are needed when lifting the system. Follow regional safety practices when lifting the system.

1. Cut two 30 cm pieces of the 4 mm tubing.
2. Assemble the manifold to the rack tray using the three screws (A) delivered with the manifold.

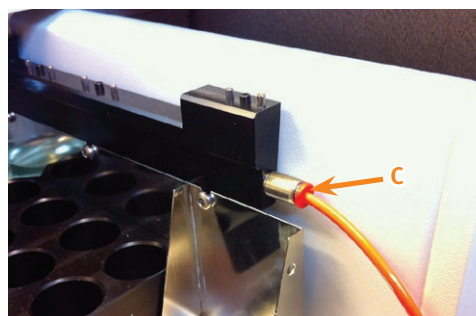


3. Place the rack tray on the system.

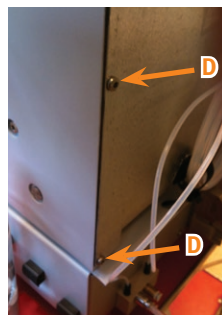
4. Place at least two reagent bottles on the rack tray, in position R1 and R4. Then place a cover plate over the reagent bottles.
5. Verify that the distance (B) between the manifold base and the cover plate is less than 1.5 mm. If necessary, adjust the height of the manifold using the three screws.



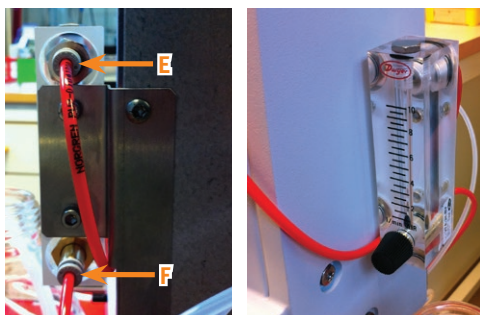
6. Remove the cover plate and reagent bottles.
7. Fasten one of pieces of 30 cm tubing to the manifold connector (C).



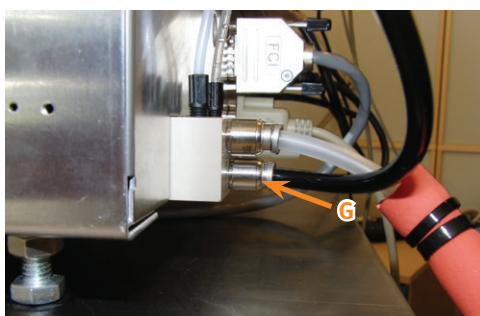
8. Position the system so you are able to reach the left backside.
9. Unscrew the lower two (D) of the three screws on the back plate's left hand side, and assemble the regulator to the back plate using these two screws.



10. Connect the tubing from the manifold (see step 7) to the upper connector on the regulator (E). Ensure that the tubing is placed under the regulator and out of the way for the robot.



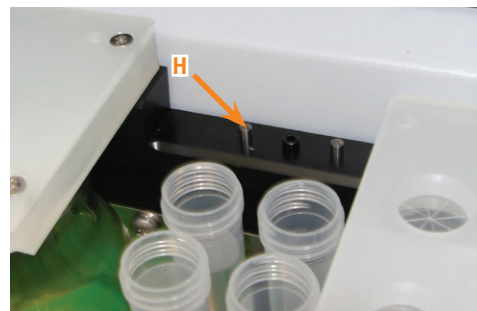
11. Connect the other piece of 30 cm tubing to the lower connector on the regulator (F), then to the **N₂ OUT** connector (G) at the rear of the system.



12. Position the system in its final location.
 13. Turn on the system.
 14. Press **System** in the main menu. All user accounts with system owner privilege are listed in the **Select User** dialog.
 15. Select your user account and press **OK**. If your account is password-protected, the **Input Password** dialog opens. Enter your password and press **OK**.
 16. Select the **Peptide Synthesis** tab in the system menu.
 17. Press **Open Rack Valve** in the **Inert Gas Setting** field and confirm the dialog that opens.

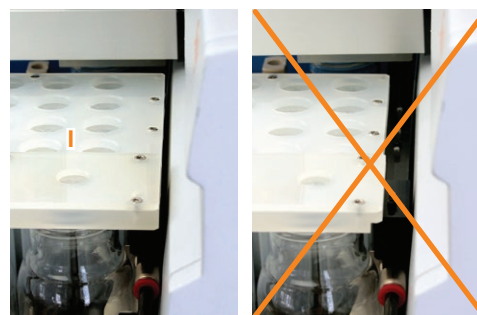
18. Set the flow of the regulator to approximately 4 l/min (0.14 cubic feet/min) 0.5 bar (0.05 MPa; 7.25 PSI). The default flow setting is 1 l/min/cover. If the maximum four covers are used, the maximum flow is 4 l/min.

19. Verify the function by pressing a nozzle (H) on the manifold with a finger. If the manifold is connected properly, you will hear the gas escaping through the nozzle.



Load Vessels and Reagent Bottles

- Place vessels and reagent bottles in all positions on the rack tray to avoid leakage.
- Place the cover plates (I) so the N₂ nozzles on the manifold are depressed (see the image to the left).



Note: Placing the cover plates in the opposite way (see the image to the right) will cover the vials, but not allow the gas to flow as the nozzles will not be depressed.

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