

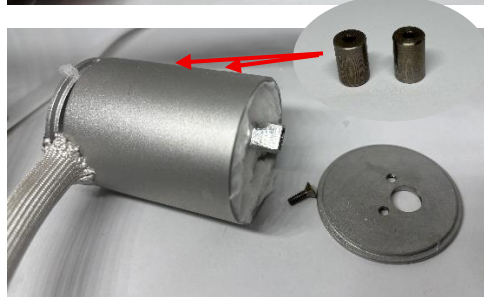
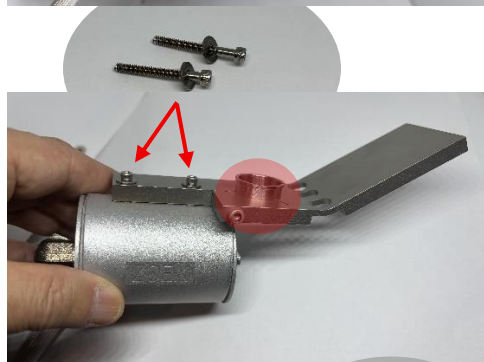
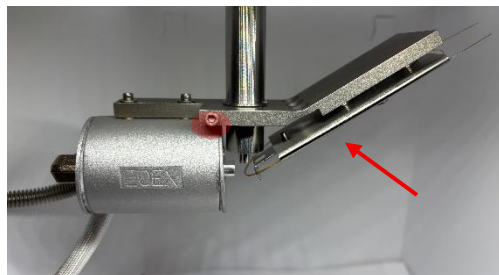
Upgrade Your Zoex Loop Modulator to a Robust, Alignment-Free System

Partial Hardware Upgrade Installation Guide

Attention

- Please wear gloves, safety glasses, and a mask during installation.
- Pay close attention to the heater and sensor cables. Ensure they are not damaged during the process.

Installation Procedure



Disassembly

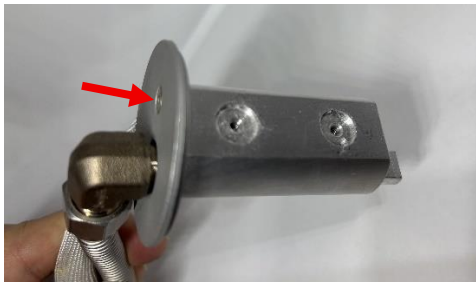
1. Remove the Zoex column holder.
2. Loosen the highlighted Zoex head clamp screw using a 7/64" hex wrench (not included).
3. Detach the Zoex head clamp assembly from the cold jet tube.
4. Remove the reducing ring and retain it for later use.
5. Remove the two heating block screws and washers using a 3/32" hex wrench. Retain them for later use.
6. Detach the hot jet assembly from the Zoex head clamp.
7. Remove the two small hex screws from the end cap on the hot jet nuzzle side.
8. Remove the end cap. It will not be used.
9. Remove the two spacing columns from the heating block and retain them for later use.



10. Remove the hot jet housing cylinder from the heating block.

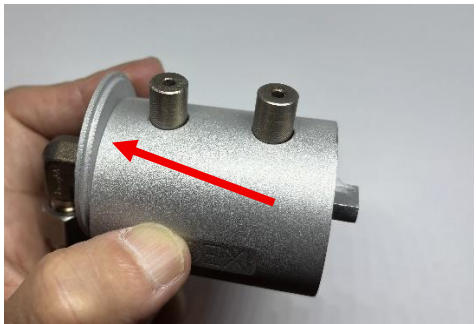


11. Remove the insulation material from the housing cylinder and retain it for later use.



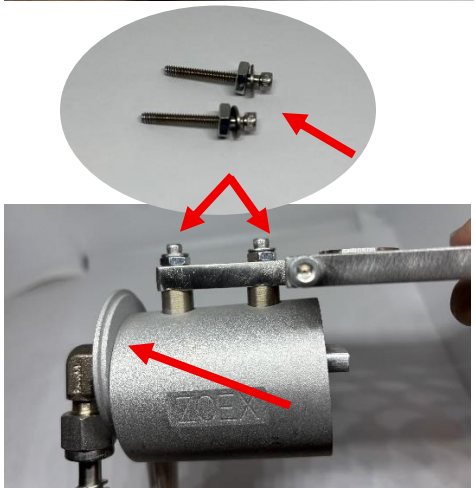
12. Remove the hex screw and ensure the end cap on the heater side is loose. Do not remove this end cap.

Reassembly of Hot Jet Assembly

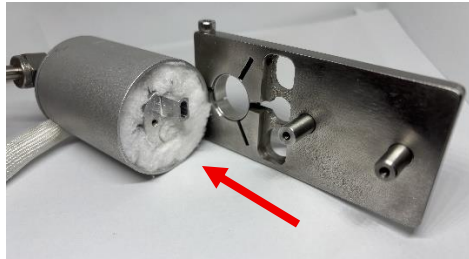


13. Reinstall the housing cylinder and spacing columns onto the heating block to form the hot jet assembly.
14. Ensure the spacing columns are properly seated within the slots on the heating block.
15. **Ensure the end cap and housing cylinder are slightly misaligned.**

Installation onto New Head Clamp

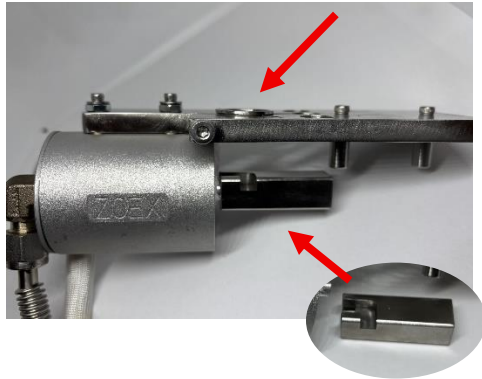


16. Place one 6-32 nut onto each heating block screw.
17. Attach the hot jet assembly to the new flat head clamp using the heating block screws.
18. Before tightening, **ensure the end cap and housing cylinder remain slightly misaligned.**



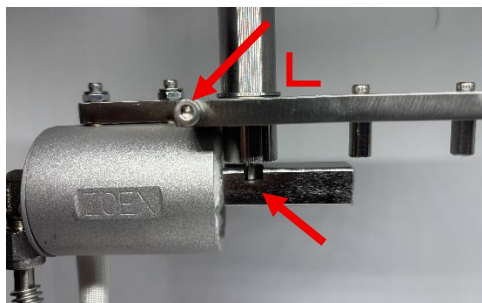
Insulation and Preparation

19. Reinstall the insulation material onto the housing cylinder.
20. Do **NOT** reinstall the end cap on the nuzzle side; it is no longer required.



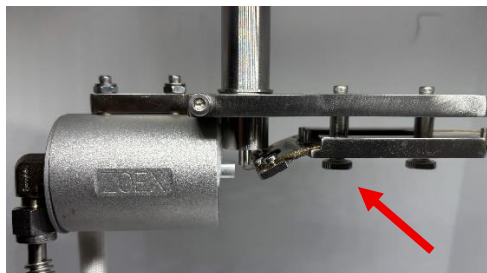
Alignment and Mounting

21. Insert the installation tool into the hot jet nuzzle with the observation window facing you.
22. Insert the reducing ring into the cold jet opening on the new head clamp.



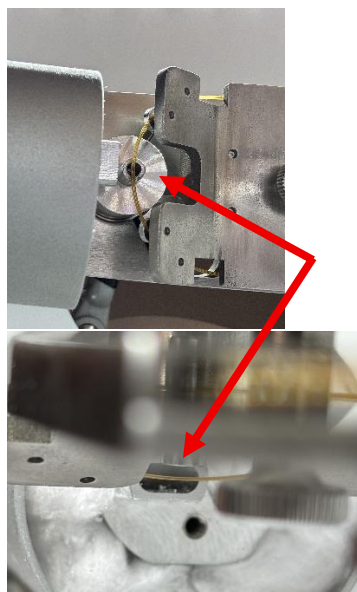
23. Install the assembly onto the cold jet until the cold jet nuzzle contacts the bottom of the installation tool.
24. Ensure the head clamp is **perpendicular to the cold jet tube***.
25. Tighten the head clamp hex screw.
26. Remove the installation tool.

* If necessary, apply slight downward pressure to the left side of the head clamp while tightening the head clamp hex screw.



Final Assembly

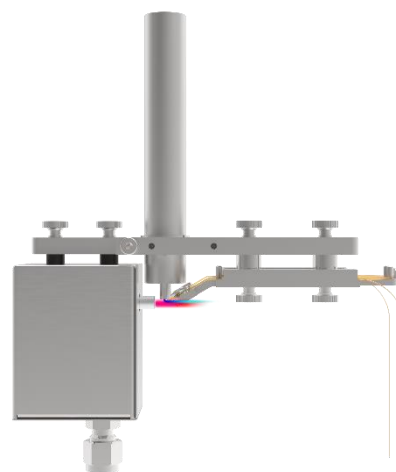
27. Install the loop holder using two finger-tight knurled screws.



28. Verify that the modulation loops are centered within both the cold jet and hot jet nozzles.

Support

If you have any questions during installation or operation, please contact us at info@infomassllc.com. We are happy to arrange a phone call or online meeting for support.



About InfoMass LLC

InfoMass LLC develops advanced GC×GC thermal modulation solutions featuring robust, alignment-free designs that simplify operation and improve reliability. In addition to hardware, we provide comprehensive training in GC×GC techniques and GC Image software to support users in achieving high-quality analytical results. For more information, please contact us at info@infomassllc.com.