

Technical Bulletin

Place a copy of this bulletin in the front of each Blueprints Manual. Redline drawings as needed and include a TB reference note. Reference TB implementation on site Action Item Box-chart and/or site tool history management log.

 Number:
 026

 Date Issued:
 09/09/03

 Expiration Date:
 09/09/04

Subject/Key Words:	Quartz in-line heater flow direction must be correct to prevent quartz chamber from breaching and resultant chemical leaks.		
Classification:	■ Informational	☐ Mandatory	■ Safety Alert □ PM Impact
	Warranty Impact	Purchase Parts	No Charge For Parts expires / / Reference this TB# when ordering NC parts.
Applicable Akrion Procedures:	none		
Parts/Reference Documents:	none		
Attachments:	none		

Issue: An improperly plumbed, reverse flow, quartz in-line heater will trap gasses within

the quartz chamber, and accelerate the etching of the quartz. The quartz will leak, activate the heater leak capacitive sensor and irreparably damage the heater.

Symptoms: Heaters leak internally in a matter of days or weeks after installation/use.

Test/Validate: The suspect flow direction error is most likely found in the flow path component

configuration feeding into the heater compartment. Review any recent flow system modifications or enhancements for possible change in flow direction. The inlet flow must go to the lower heater fitting and exit the upper heater fitting to ensure gasses are not trapped within the heater. Review all associated flow documentation

issued with the bench or enhancement.

Solution: If the Symptom exists, validate the proper flow configuration and correct the

plumbing to ensure proper flow direction. Review all work performed to flow

systems to prevent this issue from occurring.

If you have technical questions or require more information, please contact Akrion Technical Support Department via e-mail at techsupport@akrion.com. Authorized service personnel can obtain copies of the latest Akrion procedures and controlled documents from the Akrion Document Control department at <a href="mailto:documents-documents-documents-documents-documents-documents-documents-documents-documents-documents-documents-documents-documents-documents-documents-documents-documents-documents-documents-documents-documents-documents-documents-documents-documents-documents-documents-documents-documents-documents-documents-documents-documents-documents-documents-documents-documents-documents-documents-documents-documents-documents-documents-documents-documents-documents-documents-documents-documents-documents-documents-documents-documents-documents-documents-documents-documents-documents-documents-documents-documents-documents-documents-documents-documents-documents-documents-documents-documents-documents-documents-documents-documents-documents-documents-documents-documents-documents-documents-documents-documents-documents-documents-documents-documents-documents-documents-documents-documents-documents-documents-documents-documents-documents-documents-documents-documents-documents-documents-documents-documents-documents-documents-documents-documents-documents-documents-documents-documents-documents-documents-documents-documents-documents-documents-documents-documents-documents-documents-documents-documents-documents-documents-documents-documents-documents-documents-documents-documents-documents-documents-documents-documents-documents-documents-documents-documents-documents-documents-documents-documents-documents-documents-documents-documents-documents-documents-documents-documents-documents-documents-documents-documents-documents-documents-documents-documents-documents-documents-documents-documents-documents-documents-documents-documents-documents-documents-documents-docum