

Inline VHS Sight-Glass Cooling Kit

FIELD INSTRUCTION SHEET

Manual No. 699901018 Revision B January 2000

Inline VHS SightGlass Co	olina Kit
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Agilent Field Instruction Sheet

Inline VHS Sight Glass Cooling Kit

Parts List

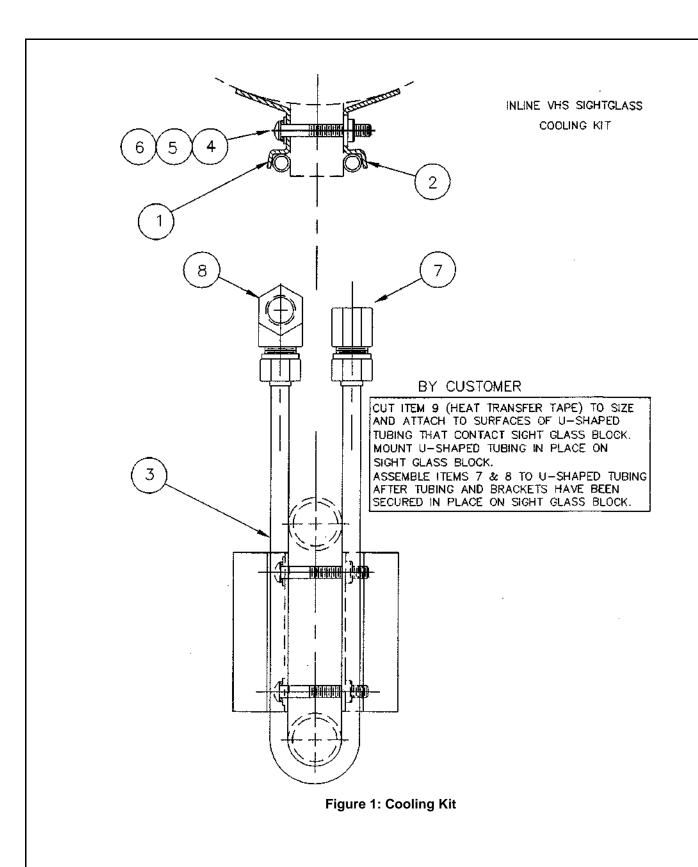
Refer to Figure 1: Cooling Kit.

- 1. Clamping Bracket without PEM Nuts (1)
- 2. Clamping Bracket with PEM Nuts (1)
- 3. U-Shaped Sightglass Cooling Tube (1)
- 4. 1 1/4" Stainless Screw (2)
- 5. Flat Washers (2)
- 6. Lock Washers (2)
- 7. Straight Brass Fitting (1)
- 8. 90° Elbow Brass Fitting (1)
- 9. Thermally Conductive Adhesive Transfer Tape
- 10. Straight Brass Hose Barb (1)
- 11. I45° Brass Hose Barb (1)
- 12. Rubber Hose
- 13. Hose Clamps (2)

Installation Instructions

- 1. Diffusion pump must be cool enough to touch before installing sightglass cooling kit.
- 2. Cut thermal tape to lengths as needed to provide good heat transfer to back of sightglass block.
- 3. Apply thermal tape to U—shaped cooling tube and remove backing from thermal tape.
- 4. Slide U—shaped cooling tube with tape into position on back of sightglass block and press firmly.
- 5. Attach the two stainless steel clamping brackets using the stainless steel screws, flat washers and lock washers as shown in the enclosed drawing. (Remove the thermostat cover on the body of the Diffusion Pump if needed for easier access.)
- 6. Tighten screws in an alternating fashion until both are tight.
- 7. Attach 90° elbow brass fitting and straight bras s fitting to ends of U—shaped cooling tube.
- 8. Insert 45° brass hose barb into water line inlet fitting on Diffusion Pump.
- 9. Insert straight brass hose barb into straight brass fitting on end of U—shaped cooling tube.
- 10. Cut rubber hose to length and slide onto hose barbs.
- 11. Use hose clamps to secure hose in place.
- 12. Attach incoming cooling water line to 90° elbow brass fitting and outgoing water line to usual fitting on foreline of Diffusion Pump.

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Agilent Technologies



Vacuum Products Division Instructions for returning products

Dear Customer:

Please follow these instructions whenever one of our products needs to be returned.

- 1) Complete the attached Request for Return form and send it to Agilent Technologies (see below), taking particular care to identify all products that have pumped or been exposed to any toxic or hazardous materials.
- 2) After evaluating the information, Agilent Technologies will provide you with a Return Authorization (RA) number via email or fax, as requested.

Note: Depending on the type of return, a Purchase Order may be required at the time the Request for Return is submitted. We will quote any necessary services (evaluation, repair, special cleaning, eg).

3) Important steps for the shipment of returning product:

- Remove all accessories from the core product (e.g. inlet screens, vent valves).
- Prior to shipment, drain any oils or other liquids, purge or flush all gasses, and wipe off any excess residue.
- If ordering an Advance Exchange product, <u>please use the packaging from the Advance Exchange to return the defective</u> product.
- Seal the product in a plastic bag, and package product carefully to avoid damage in transit. You are responsible for loss or damage in transit.
- Agilent Technologies is not responsible for returning customer provided packaging or containers.
- Clearly label package with RA number. Using the shipping label provided will ensure the proper address and RA number
 are on the package. Packages shipped to Agilent without a RA clearly written on the outside cannot be accepted and will
 be returned.
- 4) Return only products for which the RA was issued.
- 5) Product being returned under a RA must be received within 15 business days.
- 6) Ship to the location specified on the printable label, which will be sent, along with the RA number, as soon as we have received all of the required information. Customer is responsible for freight charges on returning product.
- 7) Return shipments must comply with all applicable **Shipping Regulations** (IATA, DOT, etc.) and carrier requirements.



Vacuum Products Division Request for Return Form (Health and Safety Certification)

Please read important policy information on Page 3 that applies to all returns.

Company Name:			Contact Name:		
Tel: Email:		Fax:	Fax:		
Customer Ship To:		Customer Bill To:	Customer Bill To:		
Europe only: VAT r	en Numher		USA/Canada only: Ta	xable Non-taxable	
Europe only. VALLE	cy. Italiibei.		OOA/ Odilada Olily.	NUDIC NOII-LUXUDIC	
PRODUCT IDENTIFIC	CATION	T	T		
Product Description		Agilent P/N	Agilent S/N	Original Purchasing Reference	
HEALTH and SAFETY					
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Vacuum Products Division Request for Return Form (Health and Safety Certification)

Please use these Failure Mode to describe the concern about the product on Page 2.

TURBO PUMPS and TURBO CONTROLLERS

APPARENT DEFECT/MALFUNCT	ΓΙΟΝ	POSITION	PARAMETERS	
- Does not start	- Noise	- Vertical	Power:	Rotational Speed:
- Does not spin freely	- Vibrations	-Horizontal	Current:	Inlet Pressure:
- Does not reach full speed	-Leak	-Upside-down	Temp 1:	Foreline Pressure:
- Mechanical Contact	-Overtemperature	-Other:	Temp 2:	Purge flow:
- Cooling defective	-Clogging		OPERATING TI	ME:

ION PUMPS/CONTROLLERS

- Bad feedthrough	- Poor vacuum
- Vacuum leak	- High voltage problem
- Error code on display	- Other

LEAK DETECTORS

- Cannot calibrate	-No zero/high backround
- Vacuum system unstable	- Cannot reach test mode
- Failed to start	- Other

SCROLL AND ROTARY VANE PUMPS

- Pump seized	- Other
- Doesn't reach vacuum	- Over temperature
- Pump doesn't start	 Noisy pump (describe)

VALVES/COMPONENTS

Triested, Committeette			
- Main seal leak	- Bellows leak		
- Solenoid failure	- Damaged flange		
- Damaged sealing area	-Other		

INSTRUMENTS

- Gauge tube not working	- Display problem
- Communication failure	- Degas not working
- Error code on display	- Other

DIFFUSION PUMPS

- Heater failure	- Electrical problem
- Doesn't reach vacuum	- Cooling coil damage
- Vacuum leak	- Other

Section 6) ADDITIONAL TERMS

Please read the terms and conditions below as they apply to all returns and are in addition to the Agilent Technologies Vacuum Product Division – Products and Services Terms of Sale.

- Customer is responsible for the freight charges for the returning product. Return shipments must comply with all
 applicable Shipping Regulations (IATA, DOT, etc.) and carrier requirements.
- Customers receiving an Advance Exchange product agree to return the defective, rebuildable part to Agilent Technologies
 within 15 business days. Failure to do so, or returning a non-rebuildable part (crashed), will result in an invoice for the
 non-returned/non-rebuildable part.
- Returns for credit toward the purchase of new or refurbished Products are subject to prior Agilent approval and may incur
 a restocking fee. Please reference the original purchase order number.
- Units returned for evaluation will be evaluated, and a quote for repair will be issued. If you choose to have the unit
 repaired, the cost of the evaluation will be deducted from the final repair pricing. A Purchase Order for the final repair price
 should be issued within 3 weeks of quotation date. Units without a Purchase Order for repair will be returned to the
 customer, and the evaluation fee will be invoiced.
- A Special Cleaning fee will apply to all exposed products per Section 4 of this document.
- If requesting a calibration service, units must be functionally capable of being calibrated.

