



Inline VHS Sight-Glass Cooling Kit

FIELD INSTRUCTION SHEET

Manual No. 699901018 Revision B January 2000



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.



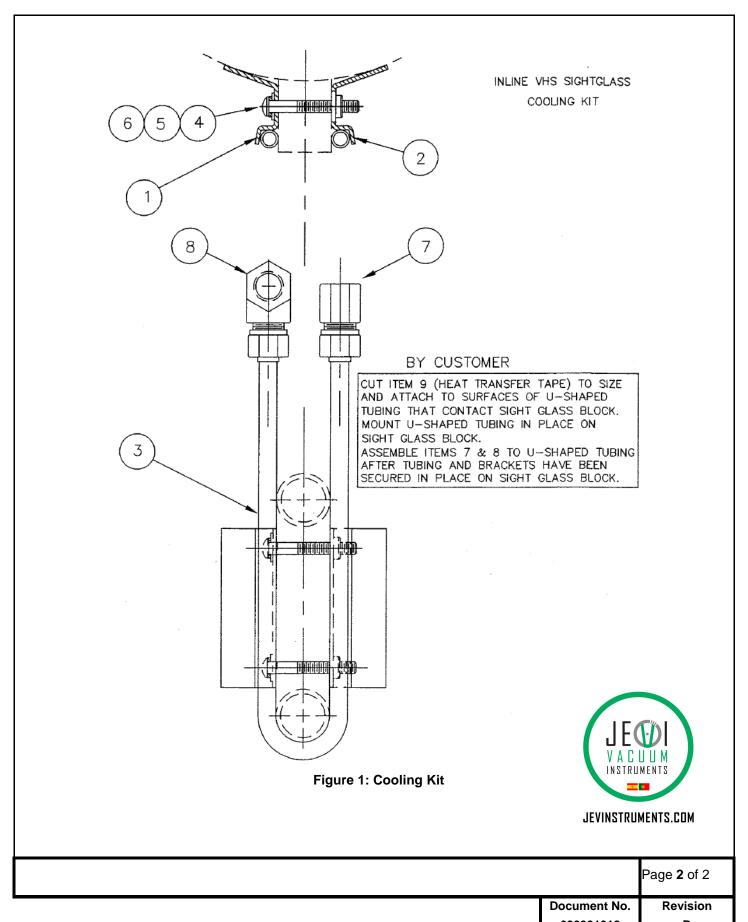
Inline VHS SightGlass Cooling Kit

Page **1** of 2

Document No. 699901018

Revision B





699901018 B

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.
- 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.

RETURN THE COMPLETED **REQUEST FOR RETURN** FORM TO YOUR NEAREST LOCATION:

EUROPE: NORTH AMERICA: PACIFIC RIM:

Fax: 00 39 011 9979 330

Fax Free: 00 800 345 345 00 Fax: 1 781 860 9252 please visit our website for individual

Toll Free: 00 800 234 234 00 Toll Free: 800 882 7426, Option 3 office information

vpt-customercare@agilent.com vpl-ra@agilent.com http://www.agilent.com







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

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

) CUSTOMER INFORMATION					
Company Name:		Contact Name:			
Tel: Email:		Fax:	Fax:		
Customer Ship To:		Customer Bill To:	Customer Bill To:		
Europe only: VAT reg. Numl	per:	USA/Canada only:	Taxab	le 🗌 Non-taxal	ble
) PRODUCT IDENTIFICATION					
Product Description	Agilent P/N	Agilent S/N		Original Purchasi	ng Reference
TYPE OF RETURN (Choose or	ne from each row and supply	Purchase Order if requesting	a billable	service)	
3A. Non-Billable	Billable New P0 #	f (hard copy must be submitted	d with thi	s form):	
3B . Exchange Repair		ment/Demo Calibration	Eva		n for Credit
bb					r for ordan
HEALTH and SAFETY CERTIFI	CATION				
AGILENT TECHNOLOGIES CAI			IOLOGIC	AL OR EXPLOSIVE	HAZARDS,
RADIOACTIVE MATERIAL, OR			_		
Call Agilent Technologies to o		equirement presents a problei	II.		
The equipment listed above (•	tavia ar hazardaya matariala	ΛD		
		toxic or hazardous materials. wing toxic or hazardous mater		is hox is checked t	the following
	-	boxes for all materials to whi			-
Toxic Corrosive	e Reactive F	lammable Explosive	Bi	ological Ra	adioactive
List all toxic/hazardous mate	rials. Include product name	, chemical name, and chemic	al svmbo	l or formula:	
				· · · · · · · · · · · · · · · · · · ·	
NOTE: If a product is received at Agile costs incurred to ensure the safe han					•
exposure to toxic or hazardous materi	• •	rany hann or injury to Agnetic employ	ees as well	as to any timu party oc	curring as a result of
Print Name:	Authorized Sign	nature:		Date:	
FAILURE INFORMATION:					
Failure Mode (REQUIRED FIEL	D. See next page for sugges	tions of failure terms):			
Detailed Description of Malfur	action: (Please provide the er	ror message)			
Application (system and mode					
	<u></u>				
l understand and agree to the	terms of Section 6, Page 3/	3.			
Print Name:	Authorized Sign	nature:		Date:	



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/MALFUNC	TION	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

- Can	not calibrate	-No zero/high backround
- Vac	uum system unstable	- Cannot reach test mode
- Faile	ed 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

TALLED ONLY CITETIO			
- 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.



Inline VHS SightGlass Cooling Kit

This page intentionally left blank.





Agilent Technologies

Vacuum Product Division

United States & Canada

Agilent Technologies Vacuum Products Division 121 Hartwell Avenue Lexington, MA 02421 USA Tel: +1 781 861 7200 Toll-Free: +1 800 882 7426

Fax: +1 871 860 5437

Benelux

Agilent Technologies
Vacuum Products Division
Herculesweg 8
4338 PL Middelburg
THE NETHERLANDS
Tel: +31 118 671570
Fax: +31 118 671569

China

Agilent Technologies
Vacuum Products Division
Room 1648
Central Tower South Wing
Beijing Junefield Plaza
No. 10 XuanWuMenWai Street
Beijing 100052 P.R. CHINA
Tel.: +86 (10) 6310 8550
Toll-Free: 800 820 3278
Fax: +86 (10) 6310 0141

France

Agilent Technologies
Vacuum Products Division
7 avenue des Tropiques
Z.A. de Courtaboeuf - B.P. 12
91941 Les Ulis cedex FRANCE
Tel.: +33 (0) 1 69 86 38 84
Fax: +33 (0) 1 69 86 29 88

Germany & Austria

Agilent Technologies
Vacuum Products Division
Alsfelder Strasse 6
Postfach 11 14 35
64289 Darmstadt GERMANY
Tel.: +49 (0) 6151 703 353

Tel.: +49 (0) 6151 703 353 Fax: +49 (0) 6151 703 302



India

Agilent Technologies Vacuum Product Division 205-A, "A" wing of Galleria, 2nd floor, Hiranandani Gardens, Powai, Mumbai-400 076, India Tel.: +91 22-2570 8595 / 8597 Fax: +91 22- 2570 8599

Italy

Agilent Technologies
Vacuum Products Division
via F.Ili Varian 54
10040 Leini, (Torino) ITALY
Tel.: +39 011 997 9111
Toll-Free: 00 800 234 234 00
Fax: +39 011 997 9350

Japan

Agilent Technologies
Vacuum Products Division
Sumitomo Shibaura Building 4-16-36
8th Floor
4-16-36 Shibaura Minato-ku
Tokyo 108 JAPAN
Tel.: +81 3 5232 1253
Toll-Free: 0120 655 040
Fax: +81 3 5232 1710

Korea

Agilent Technologies
Vacuum Products Division
Shinsa 2nd Bldg. 2F 966-5
Daechi-dong
Kangnam-gu, Seoul
KOREA 135-280
Tel.: +82 2 3452 2452
Toll-Free: 080 222 2452
Fax: +82 2 3452 2451

Mexico

Agilent Technologies Vacuum Products Division Concepcion Beistegui No 109 Col Del Valle C.P. 03100 MEXICO, D.F.

Tel.: +52 5 523 9465 Fax: +52 5 523 9472

Southeast Asia

Agilent Technologies Vacuum Products Division South East Asia (SEA) - Alex Ho H/P: +601 2213 1253 Fax: +603 6733 8121

Singapore

Agilent Technologies Vacuum Products Division Singapore Unit 10-04 Helios Biopolis @ one-north 11 Biopolis Way, 138667 Singapore

H/P.: +65 92364988 Fax: +65 64789603

Taiwan

Agilent Technologies Vacuum Products Division 14F-6, No. 77, Hsin Tai Wu Road, Sec. 1 Hsi chih, Taipei Hsien, Taiwan, R.O.C.

Tel.: +886 2 2698 9555 Toll Free: 0800 051 342 Fax: +886 2 2698 9678

UK & Ireland

Agilent Technologies Vacuum Products Division 6 Mead Road Oxford Industrial Park Tel.: +44 (0) 1865 291570

Fax: +44 (0) 1865 291571



