

Vacuum Products Division

TriScroll	Vib	rati	on
Isolati	ion	Kit	

INSTRUCTION MANUAL

Part No. 699904385 Rev. A

February 2008

TriScroll Vibration Isolation Kit

Warranty

Products manufactured by Seller are warranted against defects in materials and workmanship for twelve (12) months from date of shipment thereof to Customer, and Seller's liability under valid warranty claims is limited, at the option of Seller, to repair, replacement, or refund an equitable portion of the purchase price of the Product. Items expendable in normal use are not covered by this warranty. All warranty replacement or repair of parts shall be limited to equipment malfunctions which, in the sole opinion of Seller, are due or traceable to defects in original materials or workmanship. All obligations of Seller under this warranty shall cease in the event of abuse, accident, alteration, misuse, or neglect of the equipment. In-warranty repaired or replaced parts are warranted only for the remaining unexpired portion of the original warranty period applicable to the repaired or replaced parts. After expiration of the applicable warranty period, Customer shall be charged at the then current prices for parts, labor, and transportation.

When products are used with toxic chemicals, or in an atmosphere that is dangerous to the health of humans, or is environmentally unsafe, it will be the responsibility of the Customer to have the product cleaned by an independent agency skilled and approved in handling and cleaning contaminated materials before the product will be accepted by Agilent, Inc. for repair and/or replacement.

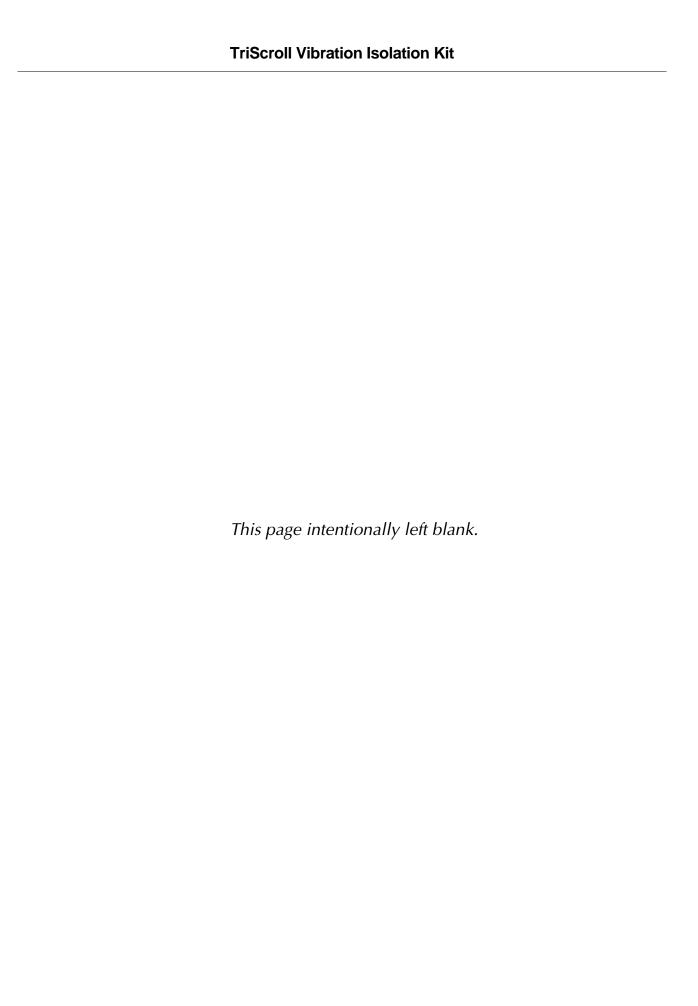
Reasonable care must be used to avoid hazards. Seller expressly disclaims responsibility for loss or damage caused by use of its Products other than in accordance with proper operating procedures.

Except as stated herein, Seller makes no warranty, express or implied (either in fact or by operation of law), statutory or otherwise; and, except as stated herein, Seller shall have no liability under any warranty, express or implied (either in fact or by operation of law), statutory or otherwise. Statements made by any person, including representatives of Seller, which are inconsistent or in conflict with the terms of this warranty shall not be binding upon Seller unless reduced to writing and approved by an officer of Seller.

Warranty Replacement and Adjustment

All claims under warranty must be made promptly after occurrence of circumstances giving rise thereto, and must be received within the applicable warranty period by Seller or its authorized representative. Such claims should include the Product serial number, the date of shipment, and a full description of the circumstances giving rise to the claim. Before any Products are returned for repair and/or adjustment, written authorization from Seller or its authorized representative for the return and instructions as to how and where these Products should be returned must be obtained. Any Product returned to Seller for examination shall be prepaid via the means of transportation indicated as acceptable by Seller. Seller reserves the right to reject any warranty claim not promptly reported and any warranty claim on any item that has been altered or has been returned by non-acceptable means of transportation. When any Product is returned for examination and inspection, or for any other reason, Customer shall be responsible for all damage resulting from improper packing or handling, and for loss in transit, notwithstanding any defect or non-conformity in the Product. In all cases, Seller has the sole responsibility for determining the cause and nature of failure, and Seller's determination with regard thereto shall be final.

If it is found that Seller's Product has been returned without cause and is still serviceable, Customer will be notified and the Product returned at its expense; in addition, a charge for testing and examination may be made on Products so returned. 3/1/00



Preface

Documentation Conventions

This manual uses the following documentation conventions:

WARNING



Warnings indicate a particular procedure or practice, which if not followed correctly, could lead to serious injury.

CAUTION



Cautions indicate a particular procedure or practice, which if not followed, could cause damage to the equipment.

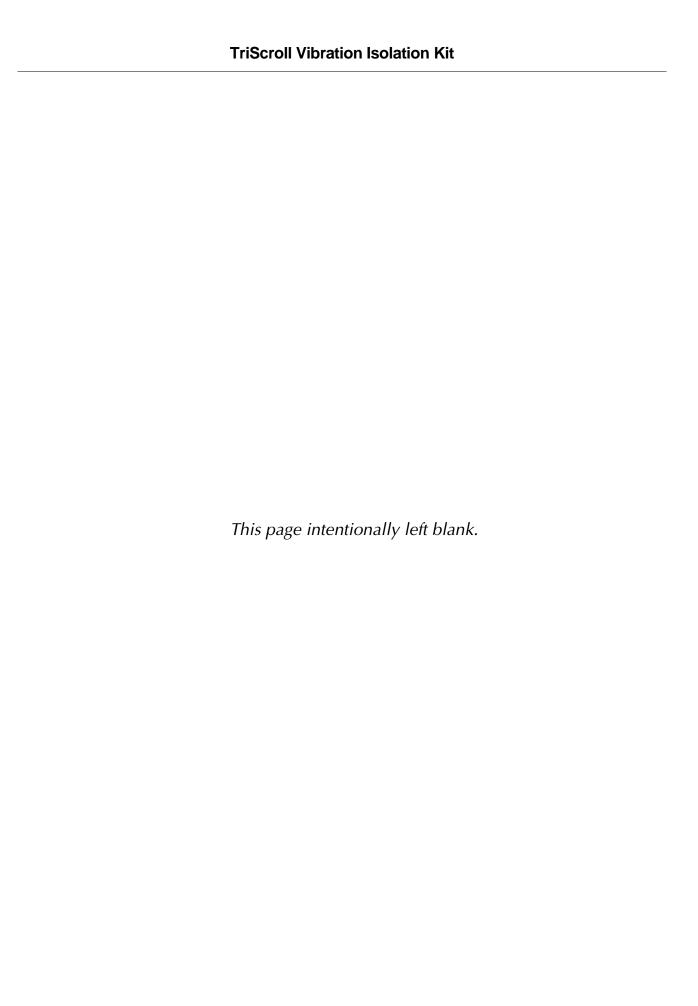
NOTE



Notes contain important information.

Before operating or servicing equipment, read and thoroughly understand all operation/ maintenance manuals provided by Agilent. Be aware of the hazards associated with this equipment, know how to recognize potentially hazardous conditions, and how to avoid them. Read carefully and strictly observe all cautions and warnings. The consequences of unskilled, improper, or careless operation of the equipment can be serious.

In addition, consult local, state, and national agencies regarding specific requirements and regulations. Address any safety, operation, and/or maintenance questions to your nearest Agilent office.



Triscroll Vibration Isolation Kit

Agilent offers a vibration reduction kit for TriScroll pumps that significantly reduces vibration levels in all three directions, as transmitted to the surface on which the pump sits.

Table 1-1 breaks down the kit parts and quantities, as shown in Figure 1-1.

Table 1-1 TriScroll Vibration Isolation Kit, P/N: PTSVIBISOKIT

Part Name	Qty
Anti-vibratory, non-skidding mount	4
Screw, M6 x 1.0 x 25 mm long, SHC, SS	4
Washer M6 Flat, S/S	4



Figure 1-1 Vibration Isolation Kit

Installation



To ensure proper operation, and to prevent damage, the kit must be installed and operated only as specified.

To install:

- 1. Unscrew the M6 screws that secure the standard feet. If the standard feet are not present, go to step 2.
- 2. Position the flat washer under the screw's head and place the M6 screw through the mount hole.
- 3. Position the mount with the round surface against the pump's base and screw the M6 screw, using a 5 mm wrench, into the threaded hole in the base.

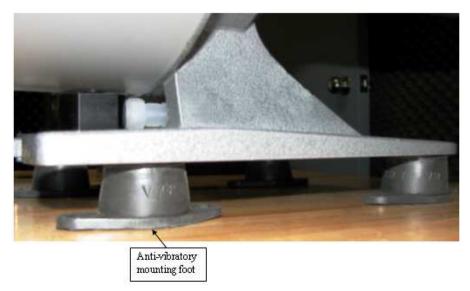


Figure 1-2 Vibration Isolation Kit Installed

Although the rubber mount is non-skidding, if required, you can additionally secure the pump onto the surface using the two mount flange holes. This requires additional screws, not included with this kit.



The anti-vibratory mounts increase pump height by ¾" (19 mm).

Figure 1-3 shows the isolation kit dimensions.

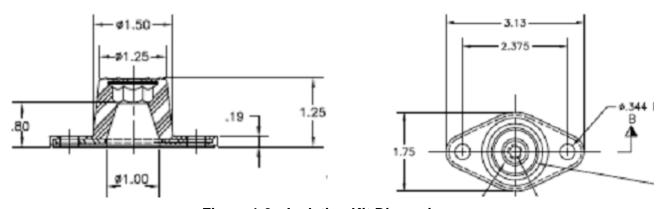


Figure 1-3 Isolation Kit Dimensions

Performance

Vibration level in every direction (axis), transmitted to the surface the pump sits on, is reduced by a significant amount.

Typical vibration reduction levels are: 75% for TS600 and 86% for TS300.



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:

 Fax:
 00 39 011 9979 330

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

 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.

Company Names	ATION			
Company Name:		Contact Name:		
Tel: Email:		Fax:	Fax:	
Customer Ship To:		Customer Bill To:		
			_	
Europe only: VAT reg. Number:		USA/Canada only: Taxable Non-taxable		
) PRODUCT IDENTIFICA	ATION			
Product Description		Agilent P/N	Agilent S/N	Original Purchasing Reference
RADIOACTIVE MATER Call Agilent Technolog The equipment listed a	IAL, OR MER gies to discus above (check	CURY AT ITS FACILITY. ss alternatives if this requ one):	S CONTAMINATED WITH BIOLOGICA	AL OR EXPLOSIVE HAZARDS,
HAS p	umped or be	en exposed to the followi	xic or hazardous materials. OR ng toxic or hazardous materials. If th oxes for all materials to which produc	_
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HAS prinforms Informs Toxic C List all toxic/hazardor NOTE: If a product is receive costs incurred to ensure the exposure to toxic or hazardo Print Name: FAILURE INFORMATION	umped or bed action must also corrosive us materials. ed at Agilent which a safe handling of our materials presented.	en exposed to the following on the filled out. Check be reactive Flar Include product name, country in the product, and is liable for an sent in the product. Authorized Signa	ng toxic or hazardous materials. If the oxes for all materials to which product mmable Explosive Bi hemical name, and chemical symbor hazardous material that was not disclosed, ny harm or injury to Agilent employees as well ture:	ct(s) pumped or was exposed: clogical Radioactive I or formula: the customer will be held responsible for all as to any third party occurring as a result of
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HAS prinformation information	corrosive us materials. ed at Agilent white safe handling of bus materials pres ON: ED FIELD. Se f Malfunction:	en exposed to the following on the filled out. Check be reactive Flar Include product name, country in the product, and is liable for an sent in the product. Authorized Signa	ng toxic or hazardous materials. If the oxes for all materials to which product mmable Explosive Bi hemical name, and chemical symbot or hazardous material that was not disclosed, my harm or injury to Agilent employees as well ture:	ct(s) pumped or was exposed: clogical Radioactive l or formula: the customer will be held responsible for al as to any third party occurring as a result of



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

- 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

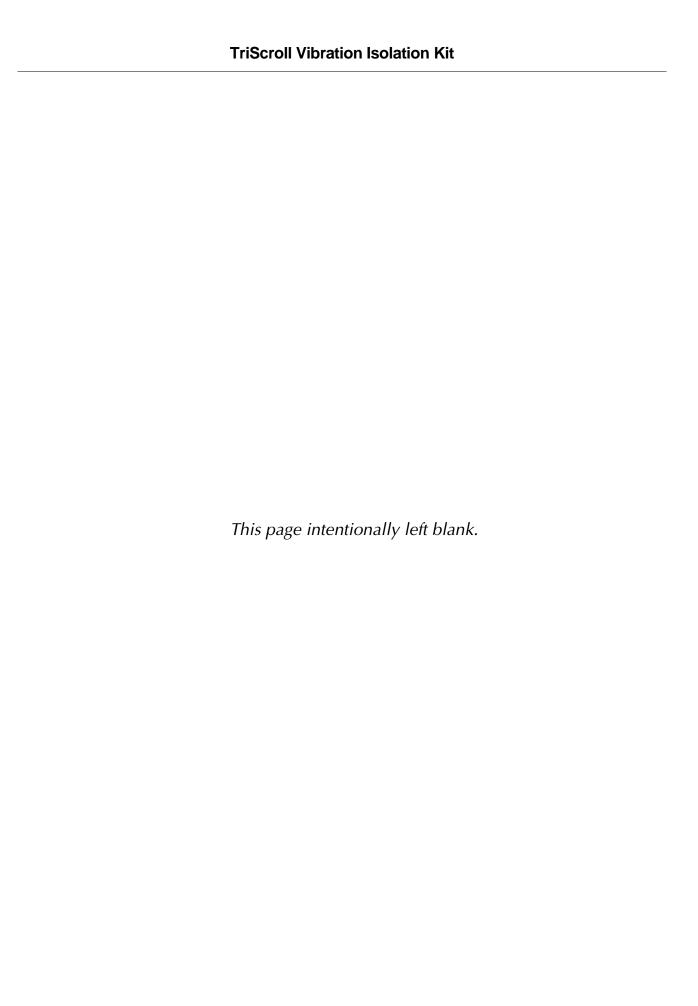
DIFFUSION PUMPS

- 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.



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