Turbo Vent Device

Model
9699831
9699731

User Manual
87-900-806-01 (L)
10/2015

Agilent Technologies
Warranty

The material contained in this document is provided “as is,” and is subject to being changed, without notice, in future editions. Further, to the maximum extent permitted by applicable law, Agilent disclaims all warranties, either express or implied, with regard to this manual and any information contained herein, including but not limited to the implied warranties of merchantability and fitness for a particular purpose. Agilent shall not be liable for errors or for incidental or consequential damages in connection with the furnishing, use, or performance of this document or of any information contained herein. Should Agilent and the user have a separate written agreement with warranty terms covering the material in this document that conflict with these terms, the warranty terms in the separate agreement shall control.

Technology Licenses

The hardware and/or software described in this document are furnished under a license and may be used or copied only in accordance with the terms of such license.

Restricted Rights Legend

If software is for use in the performance of a U.S. Government prime contract or subcontract, Software is delivered and licensed as “Commercial computer software” as defined in DFAR 252.227-7014 (June 1996), or as a “commercial item” as defined in FAR 2.101(a) or as “Restricted computer software” as defined in FAR 52.227-19 (June 1987) or any equivalent agency regulation or contract clause. Use, duplication or disclosure of Software is subject to Agilent Technologies’ standard commercial license terms, and non-DOD Departments and Agencies of the U.S. Government will receive no greater than Restricted Rights as defined in FAR 52.227-19(c)(1-2) (June 1987). U.S. Government users will receive no greater than Limited Rights as defined in FAR 52.227-14 (June 1987) or DFAR 252.227-7015 (b)(2) (November 1995), as applicable in any technical data.

Trademarks

Windows and MS Windows are U.S. registered trademarks of Microsoft Corporation.

Safety Notices

CAUTION

A CAUTION notice denotes a hazard. It calls attention to an operating procedure, practice, or the like that, if not correctly performed or adhered to, could result in damage to the product or loss of important data. Do not proceed beyond a CAUTION notice until the indicated conditions are fully understood and met.

WARNING

A WARNING notice denotes a hazard. It calls attention to an operating procedure, practice, or the like that, if not correctly performed or adhered to, could result in personal injury or death. Do not proceed beyond a WARNING notice until the indicated conditions are fully understood and met.
Turbo Vent Device
# Contents

1 **Instructions for Use**  7  
   General Information  8  
   Turbo Vent Device Description  9  
   Disposal  10  

2 **Technical Information**  11  
   General  12  
   Vent Control Unit  13  
   Vent Valve  14  
   Vent Device Specifications  15  
   Turbo Vent Device Outline  17  
   Control Unit Installation  18  
   Vent Valve Installation  19  
   Operation  20  
   Time Setting  21  
   Battery Replacement  25  
   Turbo Vent Device Replacement Parts  21
1 Instructions for Use

General Information 8
Turbo Vent Device Description 9
Disposal 10
Operators and service personnel must be aware of all hazards associated with this equipment. They must know how to recognize hazardous and potentially hazardous conditions, and know how to avoid them. The consequences of unskilled, improper, or careless operation of the equipment can be serious.

This product must only be operated and maintained by trained personnel. Every operator or service person must read and thoroughly understand operation/maintenance manuals and any additional information provided by Agilent.

All warnings and cautions should be read carefully and strictly observed. Address any safety, operation, and/or maintenance questions to your nearest Agilent office.

The following format is used in this manual to call attention to hazards:

**WARNING!** Warning are used when failure to observe instructions or precautions could result in injury or death.

**CAUTION!** Warning Cautions are used when failure to observe instructions could result in damage to equipment, whether Agilent supplied or other associated equipment.

**NOTE** Information to aid the operator in obtaining the best performance from the equipment.
Turbo Vent Device Description

The Turbo vent device, consisting of a vent control unit and a vent valve, is a complete unit suitable for automatic venting of the Turbo pump when it is switched off or during a power failure switch (refer to the following figure).

The Vent device is powered by the Turbo controller and a battery back-up capability is built in. The vent control unit is provided with a delay time to avoid undesired venting during a temporary power failure and to allow closure of the system valves before venting. A second setting is also provided to control the venting time to atmosphere.

The Turbo pump must be vented when it is shut down to prevent the forepump oil from contaminating the Turbo and the connected chamber.

Figure 1 Vent Valve and Control Unit

The 9699831, 9699731 Turbo vent device consist of:

- a Vent Control Unit
- a Vent Valve
1 Instructions for Use

Disposal

Meaning of the "WEEE" logo found in labels

The following symbol is applied in accordance with the EC WEEE (Waste Electrical and Electronic Equipment) Directive.

This symbol (valid only in countries of the European Community) indicates that the product it applies to must NOT be disposed of together with ordinary domestic or industrial waste but must be sent to a differentiated waste collection system.

The end user is therefore invited to contact the supplier of the device, whether the Parent Company or a retailer, to initiate the collection and disposal process after checking the contractual terms and conditions of sale.

For more information refer to:
2 Technical Information

General 12
  Vent Control Unit 12
  Vent Valve 14
Vent Device Specifications 15
  Control Unit 15
  Vent Valve 16
Turbo Vent Device Outline 17
Control Unit Installation 18
Vent Valve Installation 19
Operation 20
Time Setting 21
Battery Replacement 25
Turbo Vent Device Replacement Parts 28
General

The 9699831, 9699731 Turbo vent device, consisting of a vent control unit and a vent valve, are a complete unit suitable for automatic venting of the Turbo pump when it is switched off or during a power failure switch (refer to the following figure).

![Figure 2 Vent Valve and Control Unit](image)

The 9699831, 9699731 Turbo vent device consist of:

- a Vent Control Unit
- a Vent Valve
Vent Control Unit

The vent control unit is mains powered via the IEC 60320 C14 plug placed on its front panel and a battery back-up capability is built in.

The vent control unit is not suitable for rack mounting. Four taped holes in the bottom surface are available for fastening (see Figure 4 for details).

When the supply voltage is present, the internal battery is automatically recharged, then the timer circuits are inhibited and reset. When the supply voltage is shut off, the valve still remains not energized and the delay timer counter starts.

After the pre-set delay time, the valve opens and the venting time count starts. At the end of the venting time, the valve is de-energized and the battery is disconnected. The battery is protected against short circuits on the valve.

Two blue LEDs indicate when the mains is supplied and when the valve is driven (Valve closed).

Other three LEDs indicates the backup battery status. The red LED indicates that the battery actual charge level does not allow the actuation of the valve. It need to be charged before to be able to operate. In this condition, in case of power shutdown the Vent Valve opens immediately.

The green LED indicates that battery actual charge level is ok; the yellow one indicates a charge level intermediate.

NOTE
If, even after a prolonged period of charging the green LED does not light, replace the internal battery.
Vent Valve

The vent valve consists of a small normally-closed straight through, electromagnetically-actuated and viton-sealed valve with an NW 10 KF flange on the high vacuum port and a filter or adapter tube 1/4” on the air entrance port. The valve opens under control of a metallic spring and closes when power is supplied to the valve electromagnet.

NOTE

A riffled nozzle is provided for use in lieu of the sintered filter when the Turbo pump is vented by the dry gas bottle (line).
# Vent Device Specifications

## Control Unit

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Table 1</td>
<td></td>
</tr>
<tr>
<td><strong>Input: voltage</strong></td>
<td>110-120 Vac ±10% (9699831 model)</td>
</tr>
<tr>
<td></td>
<td>220-240 Vac ±10% (9699731 model)</td>
</tr>
<tr>
<td><strong>frequency</strong></td>
<td>50 to 60 Hz</td>
</tr>
<tr>
<td><strong>power</strong></td>
<td>15 VA</td>
</tr>
<tr>
<td><strong>fuses</strong></td>
<td>2 x T 315 mA 250V</td>
</tr>
<tr>
<td><strong>Output: voltage</strong></td>
<td>24 Vdc able to drive a Turbo Pump Vent Valve</td>
</tr>
<tr>
<td></td>
<td>2.5 W</td>
</tr>
<tr>
<td><strong>Delay time</strong></td>
<td>Factory set to 16 seconds (adjustable up to 36 minutes)</td>
</tr>
<tr>
<td><strong>Venting time</strong></td>
<td>Factory set to 3 minutes (adjustable up to 36 minutes)</td>
</tr>
<tr>
<td><strong>Operating temperature</strong></td>
<td>0 to 40 °C (32 °F to 104 °F)</td>
</tr>
<tr>
<td><strong>Storage temperature</strong></td>
<td>-20 °C to + 50 °C (-4 °F to +122 °F)</td>
</tr>
<tr>
<td></td>
<td>With European or NEMA plug</td>
</tr>
<tr>
<td></td>
<td>3 meters long (optional)</td>
</tr>
<tr>
<td><strong>Valve cable</strong></td>
<td>5 meters long</td>
</tr>
<tr>
<td><strong>Pollution degree</strong></td>
<td>2</td>
</tr>
<tr>
<td><strong>Max altitude</strong></td>
<td>2000 m  a.s.l.</td>
</tr>
<tr>
<td><strong>Compliance according to</strong></td>
<td>61010-1 61326-1 (industrial level)</td>
</tr>
<tr>
<td><strong>Weight</strong></td>
<td>2.5 kg (5.5 lbs)</td>
</tr>
</tbody>
</table>
### Vent Valve Specifications

**Table 2**

<table>
<thead>
<tr>
<th>Specification</th>
<th>Specification Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>High vacuum flange</td>
<td>NW 10 KF</td>
</tr>
<tr>
<td>Gas entrance</td>
<td>Riffled nozzle 4.8 mm (0.19&quot;) O.D./Tube 1/4”</td>
</tr>
<tr>
<td>Orifice size</td>
<td>1.2 mm (0.05”)</td>
</tr>
<tr>
<td>Pressure range</td>
<td>10(^{-6}) mbar to 1bar (10(^{-7}) Torr to atm)</td>
</tr>
<tr>
<td>Leak rate</td>
<td>1x10(^{-7}) mbar l/s</td>
</tr>
<tr>
<td>Life cycle</td>
<td>One million cycles</td>
</tr>
<tr>
<td>Input: voltage power</td>
<td>24 Vdc +10% -2%</td>
</tr>
<tr>
<td></td>
<td>2 W</td>
</tr>
<tr>
<td>Bakeout temperature</td>
<td>60 °C (140 °F)</td>
</tr>
<tr>
<td>Mounting position</td>
<td>Any</td>
</tr>
<tr>
<td>Weight</td>
<td>120 g (0.27 lbs)</td>
</tr>
</tbody>
</table>
Turbo Vent Device Outline

The outline dimensions for the Turbo Vent Device are shown in the following figure.

![Figure 3 Turbo Vent Device Outline]
Control Unit Installation

Place the control unit free standing on a stable surface or fasten it by means of the four suitable taped holes. Plug the power cable into a suitable power source.

NOTE When first installed or after 6 months of non-use, leave the control unit under voltage for at least 3 hours in order to fully recharge the battery before use.

Figure 4 Fastening holes (bottom view)
Vent Valve Installation

Connect the NW 10 KF port to the chamber or pump vent port. This port is compatible with an NW 16 KF flange having an adaptive centering ring.

**NOTE**

Use the provided filter to prevent the ingress of dust, dirt or contaminants, when the pump is vented to atmosphere.

**CAUTION!**

When a dry gas bottle (line) is used, never exceed 1 bar (15 psig) to the rifled nozzle connection, otherwise a leak in the Turbo pump may occur.

**CAUTION!**

When a dry gas bottle line is used, check the correct venting time to prevent overpressuring the Turbo pump.

**NOTE**

The Turbo vent device has been designed to vent the Turbo pump only. To vent the chamber, it is advisable to install a suitable vent valve.
Operation

When the Turbo pump starts, the blue LED lights, indicating that the battery is being charged and the set timers are reset. If the pump is switched off or a power failure occurs, the LED goes off and the delay time starts. At the end of delay, the valve (blue) LED lights and the valve opens for the set time. At the end of the venting time the valve closes, the valve LED goes off, and the battery is switched off. If during the delay or venting time the Turbo pump is switched on (even if only for a few seconds) both delay and venting time are reset.

NOTE
A charged battery is able to supply a minimum of 4 complete venting cycles with the maximum delay and venting time.

CAUTION!
The life of the battery is affected by ambient temperature. Never exceed the specified operating temperature and replace the battery every 30 months.
Time Setting

**WARNING!** High voltage present in the control unit can cause severe injury or death. Service must be carried out only by qualified and authorized personnel.

**WARNING!** The whole procedure described in this chapter must be carried out with the power cord detached from the unit.
2 Technical Information

Time Setting

1 Disconnect the power cord from the unit.
2 Remove the top cover of the Vent control unit by unscrewing the screws.

3 Choose the appropriate times, make the appropriate jumper settings and rotary switch position (refer to the following figure):
   - place only one jumper for each timer to select the time unit between 1s, 8s and 64s;
   - turn the rotary switch multiplier for the desired value between 0 to 9.
If the rotary switch is set to “0” the delay becomes zero (no delay) regardless of the jumper position.

Exemple: to set a delay time of 40 seconds and a venting time of 4 minutes proceed as follows:

- Adjust the delay time rotary switch to 5 and place the jumper across 8s.
- Adjust the venting time rotary switch to 4 and place the jumper across 64s.

CAUTION! Use the appropriate tool to adjust the time settings to avoid damages to the rotary switches.

4 Replace the cover by tightening all the screws.
5 Reconnect the power cord to the unit.
The minimum venting times for each Turbo pump series with the high vacuum flange blanked off and leak tight, are listed below.

- 80 l/s family 30s / 16 min.
- 300 l/s family 1 min. / 16 min.
- 1000 l/s family 5 min. / 30 min.

**NOTE**
The minimum venting time is the time needed to reach a pressure of about 500 mbar (375 Torr) inside the pump in order to avoid mechanical pump oil backstreaming and contamination of the Turbo pump.

**Figure 6** Timers setup selectors
Battery Replacement

WARNING! High voltage present in the control unit can cause severe injury or death. Service must be carried out only by qualified and authorized personnel.

WARNING! The whole procedure described in this chapter must be carried out with the power cord detached from the unit.

1 Disconnect the power cord from the unit. Remove the top cover of the Vent control unit by unscrewing the screws.

Figure 7 Unit interior
2 Identify the battery positioned in the rear of the unit.
3 Disconnect both electrical connections.

Figure 8 Internal Battery
4 Slide the battery out sideways.

**Figure 9** Battery removal

5 Insert a new battery maintaining the electrical terminals towards the front of the unit.

**WARNING!**

The new battery must be an Agilent Replacement Battery (see Orderable Parts Table).

In order to be compliant with warranty rules it is mandatory using Agilent battery.

6 Reconnect the electrical connections according to the polarity (red wire ➔“+”; black wire ➔ “-”).

7 Replace the cover by tightening all the screws.

8 Reconnect the power cord to the unit.
## Turbo Vent Device Orderable Parts

### Table 3  
Orderable Parts

<table>
<thead>
<tr>
<th>DESCRIPTION</th>
<th>PART NUMBER</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gas filter</td>
<td>28-900008-01</td>
</tr>
<tr>
<td>Battery 6 V 1Ah</td>
<td>SR74-103100-01</td>
</tr>
<tr>
<td>Mains cable NEMA plug 3m long</td>
<td>9699958</td>
</tr>
<tr>
<td>Mains cable European plug 3m long</td>
<td>9699957</td>
</tr>
<tr>
<td>Vent Valve kit N.C.</td>
<td>SR0366307002</td>
</tr>
</tbody>
</table>

For a complete overview of Agilent's extensive vacuum product line, please refer to the Vacuum Catalogue.
Dear Customer,

Thank you for purchasing an Agilent vacuum product. At Agilent Vacuum Products Division we make every effort to ensure that you will be satisfied with the product and/or service you have purchased.

As part of our Continuous Improvement effort, we ask that you report to us any problem you may have had with the purchase or operation of our products. On the back side you find a Corrective Action request form that you may fill out in the first part and return to us.

This form is intended to supplement normal lines of communications and to resolve problems that existing systems are not addressing in an adequate or timely manner.

Upon receipt of your Corrective Action Request we will determine the Root Cause of the problem and take the necessary actions to eliminate it. You will be contacted by one of our employees who will review the problem with you and update you, with the second part of the same form, on our actions.

Your business is very important to us. Please, take the time and let us know how we can improve.

Sincerely,

Giampaolo LEVI
Vice President and General Manager
Agilent Vacuum Products Division

Note: Fax or mail the Customer Request for Action (see backside page) to Agilent Vacuum Products Division (Torino) – Quality Assurance or to your nearest Agilent representative for onward transmission to the same address.
CUSTOMER REQUEST FOR CORRECTIVE / PREVENTIVE / IMPROVEMENT ACTION

TO: AGILENT VACUUM PRODUCTS DIVISION TORINO – QUALITY ASSURANCE FAX

N°: XXXX-011-9979350

ADDRESS: AGILENT TECHNOLOGIES ITALIA S.p.A. – Vacuum Products Division –

Via F.Ili Varian, 54 – 10040 Leini (TO) – Italy

E-MAIL: vpd-qualityassurance_pdl-ext@agilent.com

<table>
<thead>
<tr>
<th>NAME</th>
<th>COMPANY</th>
<th>FUNCTION</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

ADDRESS:

TEL. N° : FAX N° :

E-MAIL:

PROBLEM / SUGGESTION :

REFERENCE INFORMATION (model n°, serial n°, ordering information, time to failure after installation, etc.):

DATE

CORRECTIVE ACTION PLAN / ACTUATION (by AGILENT VPD) LOG N°

XXX = Code for dialing Italy from your country (es. 01139 from USA; 00139 from Japan, etc.)
Dear Customer,

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

Complete the attached Request for Return form and send it to Agilent Technologies (see below), taking particular care to include the completed Health and Safety declaration Section. No work can be started on your unit until we receive a completed copy of this form.

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, etc).

Product preparation
- Remove all accessories from the core product (e.g. inlet screens, vent valves).
- Prior to shipment and if applicable for your product, drain any oils or other liquids, purge or flush all gasses, and wipe off any excess residue.
- If ordering an Advance Exchange product, please use the packaging from the Advance Exchange to return the defective 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.
- Include a copy of the Health and Safety Declaration in the shipping documentation on the outside of the shipping box of your returning product.
- 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.

Shipping
- 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.
- Return shipments must comply with all applicable Shipping Regulations (IATA, DOT, ADR, etc.) and carrier requirements.

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

<table>
<thead>
<tr>
<th>EUROPE:</th>
<th>NORTH AMERICA:</th>
<th>PACIFIC RIM:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fax: 00 39 011 9979 330</td>
<td>Fax: 1 781 860 9252</td>
<td>Please visit our website for individual office information</td>
</tr>
<tr>
<td>Fax Free: 00 800 345 345 00</td>
<td>Toll Free: 800 882 7426, Option 3</td>
<td></td>
</tr>
<tr>
<td>Toll Free: 00 800 234 234 00</td>
<td>Toll Free: 800 234 234 00</td>
<td></td>
</tr>
</tbody>
</table>

pvt-customerercare@agilent.com vpl-ra@agilent.com http://www.agilent.com
TERMS AND CONDITIONS
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.

- Unless otherwise pre-negotiated, 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.
- Agilent Technologies is not responsible for returning customer provided packaging or containers.
- 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.
- Products returned that have not been drained from oil will be disposed.
- A Special Cleaning fee will apply to all exposed products.
- If requesting a calibration service, units must be functionally capable of being calibrated.
## Customer information

<table>
<thead>
<tr>
<th>Company</th>
<th>Contact Name</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Address</th>
<th>Tel</th>
<th>Fax</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Email</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
</tr>
</tbody>
</table>

## Equipment

<table>
<thead>
<tr>
<th>Product description</th>
<th>Agilent PartNo</th>
<th>Agilent Serial No</th>
<th>Original Purchasing Reference</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Failure description</th>
<th>Type of process (for which the equipment was used)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

## Type of return

- [] Non Billable
- [] Billable

- [ ] Exchange
- [ ] Repair
- [ ] Upgrade
- [ ] Demo
- [ ] Calibration
- [ ] Evaluation
- [ ] Return for Credit

New PO # (hard copy must be submitted with this form): ______________________________________

## Health and safety

The product has been exposed to the following substances:
(by selecting ‘YES’ you MUST complete the table to the right)

<table>
<thead>
<tr>
<th>Substances</th>
<th>YES</th>
<th>NO</th>
</tr>
</thead>
<tbody>
<tr>
<td>Toxic</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Harmful</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Corrosive</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Reactive</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Flammable</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Explosive (*)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Radioactive (*)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Biological (*)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Oxidizing</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sensitizer</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Other dangerous substances</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

## Substances (please refer to MSDS forms)

* Agilent will not accept delivery of any product that is exposed to radioactive, biological, explosive substances or dioxins, PCB’s without written evidence of decontamination.

<table>
<thead>
<tr>
<th>Trade name</th>
<th>Chemical name</th>
<th>Chemical Symbol</th>
<th>CAS Number</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

## Goods preparation

If you have replied YES to one of the above questions. Has the product been purged?

- [ ] YES
- [ ] NO

If yes, which cleaning agent/method:

Has the product been drained from oil?

- [ ] YES
- [ ] NOT APPLICABLE

I confirm to place this declaration on the outside of the shipping box.

## I declare that the above information is true and complete to the best of my knowledge and belief.

I understand and agree to the terms and conditions on page 2 of this document.

Name: ____________________________

Authorized Signature: ____________________________

Position: ____________________________

Date: ____________________________

NOTE: If a product is received at Agilent which is contaminated with a toxic or hazardous material that was not disclosed, the customer will be held responsible for all costs incurred to ensure the safe handling of the product, and is liable for any harm or injury to Agilent employees as well as to any third party occurring as a result of exposure to toxic or hazardous materials present in the product.
United States
Agilent Technologies
121 Hartwell Avenue
Lexington, MA 02421 - USA
Tel.: +1 781 861 7200
Fax: +1 781 860 5437
Toll-Free: +1 800 882 7426
vpl-customerservice@agilent.com

Benelux
Agilent Technologies Netherlands B.V.
Groenelaan 5, 1186 AA Amstelveen
The Netherlands
Tel: +31 20 547 2000
Fax: +31 20 547 2093

Brazil
Agilent Technologies Brasil
Avenida Marcos Penteado de Ulhoa Rodrigues, 939 - 6º andar
Castelo Branco Office Park
Torre Jacarandá - Tamboré
Barueri, Sao Paulo CEP: 06460-040
Toll free: 0800 728 1405

China
Agilent Technologies (China) Co. Ltd
No.3, Wang Jing Bei Lu, Chao Yang District
Beijing, 100102, China
Tel: +86 (0)10 64387888
Fax: +86 (0)10 64391318
Toll free: 800 820 3278
vacuum.cnmarketing@agilent.com
vpc-customerservice@agilent.com

France
Agilent Technologies
Parc Technopolis - Z.A. de Courtaboeuf
3, avenue du Canada - CS 90263
91978 Les Ulis cedex, France
Tel: +33 (0) 1 64 53 61 15
Fax: +33 (0) 1 64 53 50 01
vpf.sales@agilent.com

Germany and Austria
Agilent Technologies
Sales & Services GmbH & Co. KG
Lyoner Str. 20
60 528 Frankfurt am Main
GERMANY
Tel: +49 69 6773 43 2230
Fax: +49 69 6773 43 2250

India
Agilent Technologies India Pvt. Ltd.
Unit Nos 105-116
First Floor, Splendor Forum,
Plot No.-3 , District Centre, Jasola
New Delhi-110025
Ph: +91 11 4623 7100
Fax: +91 4623 7105
Toll Free: 18001801517

Italy
Agilent Technologies Italia S.p.A.
Via F.Lii Varian, 54
10040 Leini, (Torino) - Italy
Tel: +39 011 9979 111
Fax: +39 011 9979 350
Toll free: 00 800 234 234 00
vpt-customerservice@agilent.com

Japan
Agilent Technologies Japan, Ltd.
8th Floor Sumitomo Shibaura Building
4-16-36 Shibaura Minato-ku
Tokyo 108-0023 - Japan
Tel.: +81 3 5232 1253
Fax: +81 3 5232 1710
Toll-Free: 0120 655 040
vpc-customerservice@agilent.com

Korea
Agilent Technologies Korea, Ltd.
Shinsa 2nd Bldg, 2F, 966-5 Daechi-dong
Kangnam-gu, Seoul
Korea 135-280
Tel: +82 (0) 2 2194 9449
Fax: +82 (0) 2 3452 3947
Toll free: 080 222 2452
vpc-customerservice@agilent.com

Mexico
Agilent Technologies
Concepcion Beistegui No 109
Col Del Valle
C.P. 03100 – Mexico, D.F.
Tel.: +52 5 523 9465
Fax: +52 5 523 9472

Singapore
Agilent Technologies Singapore Pte. Ltd.
1 Yishun Avenue 7,
Singapore 768923
Tel.: (65) 6215 8045
Fax: (65) 6754 0574
Toll free: 1 800 2762622
vps-customerservice@agilent.com

Southeast Asia
Agilent Technologies Sales Sdn Bhd
Unit 201, Level 2 uptown 2,
2 Jalan SS21/37, Damansara Uptown
47400 Petaling Jaya,
Selangor, Malaysia
Tel.: +603 7712 6106
Fax: +603 6733 8121
Toll free: 1 800 880 805
vps-customerservice@agilent.com

Taiwan
Agilent Technologies Taiwan Limited
20 Kao-Shuang Road Ping-Chen City
Tao-Yuan Hsien,
32450 Taiwan, R.O.C.
Tel.: +886 3 4959004
Toll free: 0800 018 768
vps-customerservice@agilent.com

UK and Ireland
Agilent Technologies UK, Ltd.
6 Mead Road Oxford Industrial Park
Yarnton, Oxford OX5 1QJ – UK
Tel.: +44 (0) 1865 291570
Fax: +44 (0) 1865 291571

Other Countries
Agilent Technologies Italia S.p.A.
Via F.Lii Varian, 54
10040 Leini, (Torino) - Italy
Tel.: +39 011 997 9111
Fax: +39 011 997 9350
Toll-Free: 00 800 234 234 00

Customer Support & Service

NORTH AMERICA:
Toll Free: 800 882 7426
vpl-ra@agilent.com

EUROPE:
Toll Free: 00 800 234 234 00
vpt-customercare@agilent.com

PACIFIC RIM:
please visit our website for individual office information
http://www.agilent.com/chem/vacuum

Worldwide Web Site, Catalog and Order
On-line:
www.agilent.com/chem/vacuum
Representatives in most countries

© Agilent Technologies, Inc. 2013
Printed in ITALY
10/2015
Publication Number: 87-900-806-01 (L)