

NOTICE: This document contains references to Varian. Please note that Varian, Inc. is now part of Agilent Technologies. For more information, go to **www.agilent.com/chem**.



Agilent Technologies

Vaclon Plus 150 Combination Pump

919-2510	919-2511
919-2520	919-2521
919-2530	919-2531
919-2540	919-2541

(I) *MANUALE DI ISTRUZIONI*
(D) *BEDIENUNGSHANDBUCH*
(F) *NOTICE DE MODE D'EMPLOI*
(GB) *INSTRUCTION MANUAL*

VARIAN



vacuum technologies

Dear Customer,

Thank you for purchasing a VARIAN vacuum product. At VARIAN Vacuum Technologies 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 product. 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,

Sergio PIRAS

*Vice President and General Manager
VARIAN Vacuum Technologies*

Note: Fax or mail the Customer Request for Action (see backside page) to VARIAN Vacuum Technologies (Torino) - Quality Assurance or to your nearest VARIAN representative for onward transmission to the same address.

CUSTOMER REQUEST FOR CORRECTIVE / PREVENTIVE / IMPROVEMENT ACTION

TO : VARIAN VACUUM TECHNOLOGIES TORINO - QUALITY ASSURANCE

FAX N° : XXXX - 011 - 9979350

ADDRESS: VARIAN S.p.A. - Via F.lli Varian, 54 - 10040 Leinì (Torino) - Italy

E-MAIL : marco.marzio@varianinc.com

NAME _____	COMPANY _____	FUNCTION _____
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 VARIAN VTT)	LOG N° _____
_____ _____ _____ _____ _____ _____	

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

DESCRIZIONE DELLA VACION PLUS 150 COMBINATION PUMP

La Vaclon Plus 150 Combination Pump è un prodotto costituito dalla pompa Vaclon Plus 150 in combinazione con il Cryopanel montato lateralmente e con il riscaldatore a 120 Vac o 220 Vac installato.

I modelli disponibili sono elencati nella seguente tabella:

MODELLO	DIODE	NOBLE DIODE	TRIODE	STARCELL
Pompa con Cryopanel e riscaldatore a 120 Vac	919-2510	919-2520	919-2530	919-2540
Pompa con Cryopanel e riscaldatore a 220 Vac	919-2511	919-2521	919-2531	919-2541

Selezionando nella tabella seguente il relativo prodotto si potrà avere accesso al relativo manuale di istruzioni.

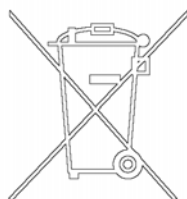
PRODOTTO	CODICE MANUALE
Vaclon Plus 150	87-900-102-01
Cryopanel	87-900-078-01

SMALTIMENTO**Significato del logo "WEEE" presente sulle etichette**

Il simbolo qui sotto riportato applicato in ottemperanza alla direttiva CE denominata "WEEE".

Questo simbolo (**valido solo per i paesi della Comunità Europea**) indica che il prodotto sul quale è applicato, NON deve essere smaltito insieme ai comuni rifiuti domestici o industriali, ma deve essere avviato ad un sistema di raccolta differenziata.

Si invita pertanto l'utente finale a contattare il fornitore del dispositivo, sia esso la casa madre o un rivenditore, per avviare il processo di raccolta e smaltimento, dopo opportuna verifica dei termini e condizioni contrattuali di vendita.



BESCHREIBUNG DER VACION PLUS 150 COMBINATION PUMP

Die Vaclon Plus 150 Combination Pump ist eine Kombination aus der Pumpe Vaclon Plus 150, dem seitlich montierten Cryopanel und der installierten Heizeinheit mit 120 VAC oder 220 VAC.

Folgende Modelle sind erhältlich:

MODELL	DIODE	NOBLE DIODE	TRIODE	STARCELL
Pumpe mit Cryopanel und Heizeinheit mit 120 VAC	919-2510	919-2520	919-2530	919-2540
Pumpe mit Cryopanel und Heizeinheit mit 220 VAC	919-2511	919-2521	919-2531	919-2541

Unter Auswahl des betreffenden Produktes in der nachstehenden Tabelle, kann die diesbezügliche Betriebsanleitung ermittelt werden.

PRODUKT	BETRIEBSANL.-NR.
Vaclon Plus 150	87-900-102-01
Cryopanel	87-900-078-01

ENTSORGUNG**Bedeutung des "WEEE" Logos auf den Etiketten**

Das folgende Symbol ist in Übereinstimmung mit der EU-Richtlinie WEEE (Waste Electrical and Electronic Equipment) angebracht.

Dieses Symbol (**nur in den EU-Ländern gültig**) zeigt an, dass das betreffende Produkt nicht zusammen mit Haushaltsmüll entsorgt werden darf sondern einem speziellen Sammelsystem zugeführt werden muss.

Der Endabnehmer sollte daher den Lieferanten des Geräts - d.h. die Muttergesellschaft oder den Wiederverkäufer - kontaktieren, um den Entsorgungsprozess zu starten, nachdem er die Verkaufsbedingungen geprüft hat.



DESCRIPTION DE LA VACION PLUS 150 COMBINATION PUMP

La Vaclon Plus 150 Combination Pump est composée de la pompe Vaclon Plus 150 complétée par le Cryo-panel, monté latéralement et par le réchauffeur à 120 Vca ou 220 Vca.

Les modèles disponibles sont présentés dans le tableau ci-dessous :

MODÈLE	DIODE	NOBLE DIODE	TRIODE	STARCELL
Pompe avec Cryopanel et réchauffeur à 120 Vca	919-2510	919-2520	919-2530	919-2540
Pompe avec Cryopanel et réchauffeur à 220 Vca	919-2511	919-2521	919-2531	919-2541

Sélectionner, dans le tableau suivant, le produit désiré pour accéder à la notice d'instructions.

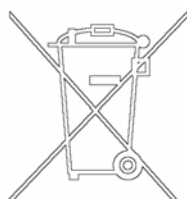
PRODUIT	CODE NOTICE
Vaclon Plus 150	87-900-102-01
Cryopanel	87-900-078-01

MISE AU REBUT**Signification du logo "WEEE" figurant sur les étiquettes**

Le symbole ci-dessous est appliqué conformément à la directive CE nommée "WEEE".

Ce symbole (**uniquement valide pour les pays de la Communauté européenne**) indique que le produit sur lequel il est appliqué NE doit PAS être mis au rebut avec les ordures ménagères ou les déchets industriels ordinaires, mais passer par un système de collecte sélective.

Après avoir vérifié les termes et conditions du contrat de vente, l'utilisateur final est donc prié de contacter le fournisseur du dispositif, maison mère ou revendeur, pour mettre en œuvre le processus de collecte et mise au rebut.



DESCRIPTION OF VACION PLUS 150 COMBINATION PUMP

The Vaclon Plus 150 Combination Pump product is composed of the Vaclon Plus 150 pump in combination with the Cryopanel (laterally mounted) and with heater (120 Vac or 220 Vac) installed.

The available models are detailed in the following table:

MODEL	DIODE	NOBLE DIODE	TRIODE	STARCELL
Pump with Cryopanel and 120 Vac heater installed	919-2510	919-2520	919-2530	919-2540
Pump with Cryopanel and 220 Vac heater installed	919-2511	919-2521	919-2531	919-2541

Select in the following table the desired product and you can access the relevant instruction manual.

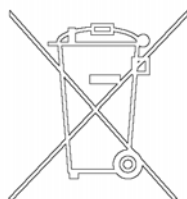
PRODUCT	MANUAL CODE
Vaclon Plus 150	87-900-102-01
Cryopanel	87-900-078-01

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.





Request for Return



1. A Return Authorization Number (RA#) **WILL NOT** be issued until this Request for Return is completely filled out, signed and returned to Varian Customer Service.
2. Return shipments shall be made in compliance with local and international **Shipping Regulations** (IATA, DOT, UN).
3. The customer is expected to take the following actions to ensure the **Safety** of workers at Varian: (a) Drain any oils or other liquids, (b) Purge or flush all gasses, (c) Wipe off any excess residues in or on the equipment, (d) Package the equipment to prevent shipping damage, (for Advance Exchanges please use packing material from replacement unit).
4. Make sure the shipping documents clearly show the RA# and then return the package to the Varian location nearest you.

North and South America

Varian Vacuum Technologies
121 Hartwell Ave
Lexington, MA 02421
Phone : +1 781 8617200
Fax: +1 781 8609252

Europe and Middle East

Varian SpA
Via Flli Varian 54
10040 Leini (TO) – ITALY
Phone: +39 011 9979111
Fax: +39 011 9979330

Asia and ROW

Varian Vacuum Technologies
Local Office

CUSTOMER INFORMATION

Company name:	
Contact person: Name:	Tel:
Fax:	E-Mail:
Ship Method:	Shipping Collect #: P.O.#:
<u>Europe only:</u> VAT reg. Number:	<u>USA only:</u> ☐ Taxable ☐ Non-taxable
Customer Ship To:	Customer Bill To:
.....	
.....	

PRODUCT IDENTIFICATION

Product Description	Varian P/N	Varian S/N	Purchase Reference

TYPE OF RETURN (check appropriate box)

☐ Paid Exchange	☐ Paid Repair	☐ Warranty Exchange	☐ Warranty Repair	☐ Loaner Return
☐ Credit	☐ Shipping Error	☐ Evaluation Return	☐ Calibration	☐ Other

HEALTH and SAFETY CERTIFICATION

Varian Vacuum Technologies **CAN NOT ACCEPT** any equipment which contains **BIOLOGICAL HAZARDS** or **RADIOACTIVITY**. Call Varian Customer Service to discuss alternatives if this requirement presents a problem.

The equipment listed above (check one):

☐ **HAS NOT** been exposed to any toxic or hazardous materials

OR

☐ **HAS** been exposed to any toxic or hazardous materials. In case of this selection, check boxes for any materials that equipment was exposed to, check all categories that apply:

☐ Toxic ☐ Corrosive ☐ Reactive ☐ Flammable ☐ Explosive ☐ Biological ☐ Radioactive

List all toxic or hazardous materials. Include product name, chemical name and chemical symbol or formula.

.....

Print Name: Customer Authorized Signature:

Print Title: Date:/...../.....

NOTE: If a product is received at Varian 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 Varian employees as well as to any third party occurring as a result of exposure to toxic or hazardous materials present in the product.

Do not write below this line

Notification (RA)#: Customer ID#: Equipment #:

FAILURE REPORT

TURBO PUMPS and TURBOCONTROLLERS

☐ Does not start ☐ Does not spin freely ☐ Does not reach full speed ☐ Mechanical Contact ☐ Cooling defective	☐ Noise ☐ Vibrations ☐ Leak ☐ Overtemperature	POSITION ☐ Vertical ☐ Horizontal ☐ Upside-down ☐ Other:	PARAMETERS Power: Rotational Speed: Current: Inlet Pressure: Temp 1: Foreline Pressure: Temp 2: Purge flow: OPERATION TIME:
TURBOCONTROLLER ERROR MESSAGE:			

ION PUMPS/CONTROLLERS

☐ Bad feedthrough ☐ Vacuum leak ☐ Error code on display	☐ Poor vacuum ☐ High voltage problem ☐ Other
Customer application:	

VALVES/COMPONENTS

☐ Main seal leak ☐ Solenoid failure ☐ Damaged sealing area	☐ Bellows leak ☐ Damaged flange ☐ Other
Customer application:	

LEAK DETECTORS

☐ Cannot calibrate ☐ Vacuum system unstable ☐ Failed to start	☐ No zero/high background ☐ Cannot reach test mode ☐ Other
Customer application:	

INSTRUMENTS

☐ Gauge tube not working ☐ Communication failure ☐ Error code on display	☐ Display problem ☐ Degas not working ☐ Other
Customer application:	

PRIMARY PUMPS

☐ Pump doesn't start ☐ Doesn't reach vacuum ☐ Pump seized	☐ Noisy pump (describe) ☐ Over temperature ☐ Other
Customer application:	

DIFFUSION PUMPS

☐ Heater failure ☐ Doesn't reach vacuum ☐ Vacuum leak	☐ Electrical problem ☐ Cooling coil damage ☐ Other
Customer application:	

FAILURE DESCRIPTION

(Please describe in detail the nature of the malfunction to assist us in performing failure analysis):

NOTA: Su richiesta questo documento è disponibile anche in Tedesco, Italiano e Francese.

REMARQUE : Sur demande ce document est également disponible en allemand, italien et français.

HINWEIS: Auf Anfrage ist diese Unterlage auch auf Deutsch, Italienisch und Französisch erhältlich.

Sales and Service Offices

France and Benelux

Varian s.a.

7 Avenue des Tropiques
Z.A. de Courtaboeuf - B.P. 12
Les Ulis cedex (Orsay) 91941
France
Tel: (33) 1 69 86 38 84
Fax: (33) 1 69 86 29 88
From Benelux Tel: (31) 118 67 15 70
From Benelux Fax: (31) 118 67 15 69

Canada

Central coordination through:

Varian Vacuum Technologies

121 Hartwell Avenue
Lexington, MA 02421
USA
Tel: (781) 861 7200
Fax: (781) 860 5437
Toll Free # 1 (800) 882 7426

China

Varian Technologies - Beijing

Rm 1648 Central Tower South Wing
Beijing Junefield Plaza
No. 10 XuanWuMenWai Street
Beijing 100052
P.R. China
Tel: (86) 10 63108550
Fax: (86) 10 63100141
Toll Free: 800 820 6556

Germany and Austria

Varian Deutschland GmbH

Alsfelder Strasse 6
Postfach 11 14 35
64289 Darmstadt
Germany
Tel: (49) 6151 703 353
Fax: (49) 6151 703 302

India

Varian India PVT LTD

101-108, 1st Floor
1010 Competent House
7, Nangal Raya Business Centre
New Delhi 110 046
India
Tel: (91) 11 28521171
Fax: (91) 11 28521173

Italy

Varian Inc.

Vacuum Technologies

Via F.lli Varian 54
10040 Leini, (Torino)
Italy
Tel: (39) 011 997 9 111
Fax: (39) 011 997 9 350

Japan

Varian Vacuum Technologies

Sumitomo Shibaura Building, 8th Floor
4-16-36 Shibaura
Minato-ku, Tokyo 108
Japan
Tel: (81) 3 5232 1253
Fax: (81) 3 5232 1263
Toll Free: 0120 655 040

Korea

Varian Technologies Korea, Ltd

Shinsa 2nd Bldg. 2F
966-5 Daechi-dong
Kangnam-gu, Seoul
Korea 135-280
Tel: (82) 2 3452 2452
Fax: (82) 2 3452 2451
Toll Free: 080 222 2452

Mexico

Varian, S. de R.L. de C.V.

Concepcion Beistegui No 109
Col Del Valle
C.P. 03100
Mexico, D.F.
Tel: (52) 5 523 9465
Fax: (52) 5 523 9472

Taiwan

Varian Technologies Asia Ltd.

14F-6, No.77, Hsin Tai Wu Rd., Sec. 1
Hsi chih, Taipei Hsien
Taiwan, R.O.C.
Tel: (886) 2 2698 9555
Fax: (886) 2 2698 9678
Toll Free: 0800 051342

UK and Ireland

Varian Ltd.

6 Mead Road
Oxford Industrial Park - Yarnton
Oxford OX5 1QU - England
Tel: (44) 1865 291570
Fax: (44) 1865 291571

United States

Varian Vacuum Technologies

121 Hartwell Avenue
Lexington, MA 02421
USA
Tel: (781) 861 7200
Fax: (781) 860 5437

Other Countries

Varian Inc.

Vacuum Technologies

Via F.lli Varian 54
10040 Leini, (Torino)
Italy
Tel: (39) 011 997 9 111
Fax: (39) 011 997 9 350

Customer Support & Service:

North America

Toll-Free: 1 800 882 7426
vtl.technical.support@varianinc.com

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Tel: 00 800 234 234 00
vtt.technical.support@varianinc.com

China

Toll-Free: 800 820 8266
vtc.technical.support@varianinc.com

Japan

Toll-Free: 0120 655 040
vtj.technical.support@varianinc.com

Korea

Toll-Free: 080 222 2452
vtk.technical.support@varianinc.com

Taiwan

Toll-Free: 0 800 051 342
vtw.technical.support@varianinc.com

Worldwide Web Site, Catalog and Order On-line:

www.varianinc.com

Representative in most countries

