

Product Warranty

Virtual Industries, Inc. PRODUCT WARRANTY LIMITED 90 DAY WARRANTY

Above named company warrants to the original consumer purchaser that its PAC-VAC® shall be free from defects in material and workmanship for a period of 90 days from the date of purchase. If a defect covered by this warranty occurs during the 90 day warranty period, return the unit to above named company for repair or replacement of the unit, at the option of the above named company. For the correct address and return authorization call:

1-800-530-8377 or (719) 572-5566

This warranty does not cover damage or malfunctions resulting from improper handling, accident, misuse, abuse, failure of electrical power, use with other products not manufactured by the above named company, damage while in transit for repairs, repairs attempted by any unauthorized person or agency, or any other reason not due to defects in materials or workmanship. This warranty is also void if the serial number has been altered, defaced or removed.

UNIT SERIAL NUMBER _____

THE ABOVE WARRANTIES FOR GOODS ARE IN LIEU OF ALL WARRANTIES, EXPRESS, IMPLIED OR STATUTORY, INCLUDING BUT NOT LIMITED TO THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ABOVE NAMED COMPANIES LIABILITY IS LIMITED SOLELY TO THE REPAIR OR REPLACEMENT OF THE UNIT IN ITS SOLE DISCRETION, AND IN NO EVENT SHALL INCLUDE CONSEQUENTIAL COSTS, EXPENSES OR DAMAGES INCURRED BY THE PURCHASER, INCLUDING WITHOUT LIMITATION ANY DAMAGE TO PRODUCTS BEING HANDLED, EVEN IF THE ABOVE NAMED COMPANY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

THE ABOVE NAMED COMPANY shall have no obligation to enhance or update any unit once manufactured.

Some states do not allow limitations on how long any implied warranty lasts so the above limitations may not apply to you. Some states do not allow the exclusion or limitation or incidental or consequential damages, so the above limitation or exclusion may not apply to you. This warranty gives you specific legal rights, and you may also have other rights which may vary from state to state.

Virtual Industries, Inc.
2130 Victor Place
Colorado Springs, CO 80915
U.S.A.



OPERATING INSTRUCTIONS AND SPECIFICATIONS

WAFER PAC-VAC™ Battery Operated ESD And Cleanroom Safe Vacuum Handling Tool

Model No.
V3200-CLN-MW4
V3200-CLN-MW6
V3200-CLN-MW8



Operation of the WAFER PAC-VAC™



1. Connect the small diameter vacuum hose to the vacuum fitting on the front of the WAFER PAC-VAC™. Make sure the hose is pushed all of the way on. Connect the other end of the vacuum hose to the rear of the vacuum handle, again make sure the hose is pushed all of the way on.
2. Install the 9 volt battery in the battery compartment on the back of the WAFER PAC-VAC body.
Turn the ON/OFF switch to the ON position. The pump should now be running and the power on LED should be illuminated.
3. Select a substrate tip for the size of the item that you will be handling and install it into the press fit receptor. It should seat past both internal o-rings about 0.7" (18mm). The flat area of the tip should not extend over the edge of the substrate being handled.
4. Install the 9 volt battery in the battery compartment on the back of the WAFER PAC-VAC body. Turn the ON/OFF switch to the ON position. The pump should now be running
5. To pick and place a part:
 - a. Gently place the vacuum cup on top of the part that you wish to pick up. The part should now be firmly grasped by the vacuum cup.
 - b. Move the part to where you want it.
 - c. Depress the button on the handle. The part should now be released.
6. Remember to turn the unit off when you are finished.

Specifications

ESD SAFE:

ELECTRICALLY CONDUCTIVE PLASTIC CASE
ELECTRICALLY CONDUCTIVE PEEK PLASTIC WAFER TIP
STATIC DISSIPATIVE RUBBER HOSE
STATIC DISSIPATIVE PLASTIC NOZZLE

CLEAN ROOM SAFE:

BUILT AND TESTED TO CLASS 1 CLEANROOM REQUIREMENTS

VACUUM:

MINIMUM 16 INCHES OF MERCURY AT SEA LEVEL.

DIMENSIONS:

LENGTH	HEIGHT	WIDTH
4.6" (130mm)	1.1" (27mm)	2.4" (61mm)

WEIGHT:

24 OUNCES (680 GRAMS)

POWER REQUIREMENTS:

9 VOLT BATTERY

WAFER PAC-VAC OPTIONS

SELECTION OF MOLDED PEEK WAFER TIPS

These Wafer Tips are molded from ESD safe PEEK plastic to handle wafers up to 100°C. The low profile of the Wafer Tip head provides easy access to wafers in industry standard boats.

Sizes available:

VMWT-A handling up to 4" (100mm) wafers
VMWT-B handling up to 6" (150mm) wafers
VMWT-C handling up to 8" (200mm) wafers
VMWT-D handling larger size wafers

For technical assistance call toll free 1-800-590-5504

Tele: 719-572-5566

Fax: 719-572-5504

8:00 A.M. to 4:30 P.M. Mountain Standard Time