### **Specifications**

#### **HOURS OF CONTINUOUS RUNNING TIME:**

 BATTERY TYPE:
 HOURS:

 9.6 VOLT NIMH
 3 to 4

 9 VOLT ALKALINE
 12 to 15

 9 VOLT CARBON
 4 to 5

 9 VOLT LITHIUM
 36 to 40

#### VACUUM:

Minimum of 15 to 20 inches of mercury depending on elevation and atmospheric pressure.

#### **DIMENSIONS:**

LENGTH HEIGHT WIDTH 8.27" (210mm) 1.1" (28mm) .8" (20mm)

Add .62 (15.23mm) to the length when using the rechargeable battery pack.

#### **WEIGHT WITH BATTERY:**

6.58 ounces (186 grams)

#### PORTA-VAC™ OPTIONS:

#### **IN-STAND CHARGER AND BATTERY PACK**

The In-stand NiMH battery charger is designed to charge the battery while the PORTA-VAC™ tool is in the stand.

#### POLYPROPYLENE STAND

Smart looking stand holds the PORTA-VAC<sup>™</sup> tool at a convenient 45° angle to protect vacuum attachments and for overall ease of use.

#### RECHARGEABLE BATTERY AND EXTERNAL CHARGER

Allows recharging of 9.6 volt NiMH batteries outside of the PORTA-VAC™ tool.

#### SELECTION OF VACUUM CUPS AND PROBES

The vacuum cups are a soft rubber material that allow handling a wide variety of small parts.

#### **SELECTION OF MINIATURE VACUUM TIPS**

These tips are designed to handle tiny parts as small as 0.02" (0.5mm).

#### **SELECTION OF MOLDED PEEK WAFER TIPS**

Tips are molded from the industry accepted carbon filled PEEK to provide chemical resistance as well as ESD safe properties.

#### **VARIETY OF FLAT VACUUM HANDLING ATTACHMENTS**

These attachments are perfect for handling silicon wafers, flat glass items or any other sensitive flat substrates.



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



#### OPERATING INSTRUCTIONS AND SPECIFICATIONS

# PORTA-VAC 3<sup>™</sup> Patented Vacuum Handling Tool

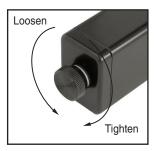
Model No. PV4300A



## **Battery Replacement**

To remove the rear cap or the rechargeable battery pack turn the screw on the rear of the unit ONE turn counterclockwise. The rear cap or battery pack can now be removed with ease. When installing a battery or the rechargeable battery pack always check the polarity. The positive terminal shall be installed towards the top of the tool. To secure the rear compartment turn the screw on the rear of the battery compartment clockwise until it is tight.

NOTE: Rechargeable battery packs and batteries must be charged up before use.







# **Operation of the PORTA-VAC**

To operate the PORTA-VAC™ simply depress the button down to turn the unit on and release the button to turn it off. Slight pressure on the button toward the rear may be necessary to prevent the button from locking. The battery level indicator light blinks on and off when battery recharge or replacement is necessary. See battery selection procedure that follows to set the PORTA-VAC™ for the battery that you are using. To lock the PORTA-VAC™ to the on position press the button down and forward. Relax pressure on the button. The PORTA-VAC™ should remain on and running. To turn the PORTAVAC™ off when it is in the locked position simply apply pressure to the button towards the rear of the tool and the button will release. The PORTA-VAC™ will now be off and the part released.

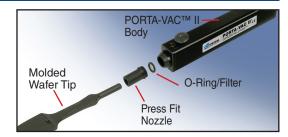






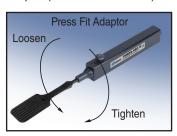
# Filter Replacement

To replace the air filter, disassemble the unit as shown and reassemble with a new filter. Under normal clean room conditions the inlet filter should be replaced annually, more often in dustier areas.



## **Replacement Filters**

To replace a wafer tip pull it out of the press fit adaptor and insert the replacement tip into the adaptor. To use the PORTA-VAC™ with vacuum cups, remove the press fit adaptor and replace it with the hub adaptor. To use the PORTA-VAC™ with machined wafer tips having a .094" connector tube remove the press fit and replace it with the tube adaptor (and the inside collet).





# **On/Off Switch Sensitivity Adjustment**

If adjustment of the on/off switch is needed (the unit will not shut off or the unit will not hold a part) use the 0.050" hex wrench to adjust the screw inside of the control button. Hold the button from turning when making this adjustment. Clockwise adjustment turns the unit on earlier when the button is pushed while counterclockwise adjustment has



# **Setting The Battery Low Warning For Your Battery**

The battery selection switch is located on the bottom of the PORTA-VAC™. To set the PORTA-VAC™ battery low indicator for use with alkaline, carbon or lithium batteries; rotate the battery selector switch fully clockwise. To set the PORTAVAC™ battery low indicator for use with a nickel metal hydride battery rotate the battery selector switch fully counter-clockwise.

CAUTION: DO NOT USE EXCESSIVE FORCE WHEN ROTATING THE SWITCH

FACTORY SETTING IS FOR STANDARD 9 VOLT BATTERY

